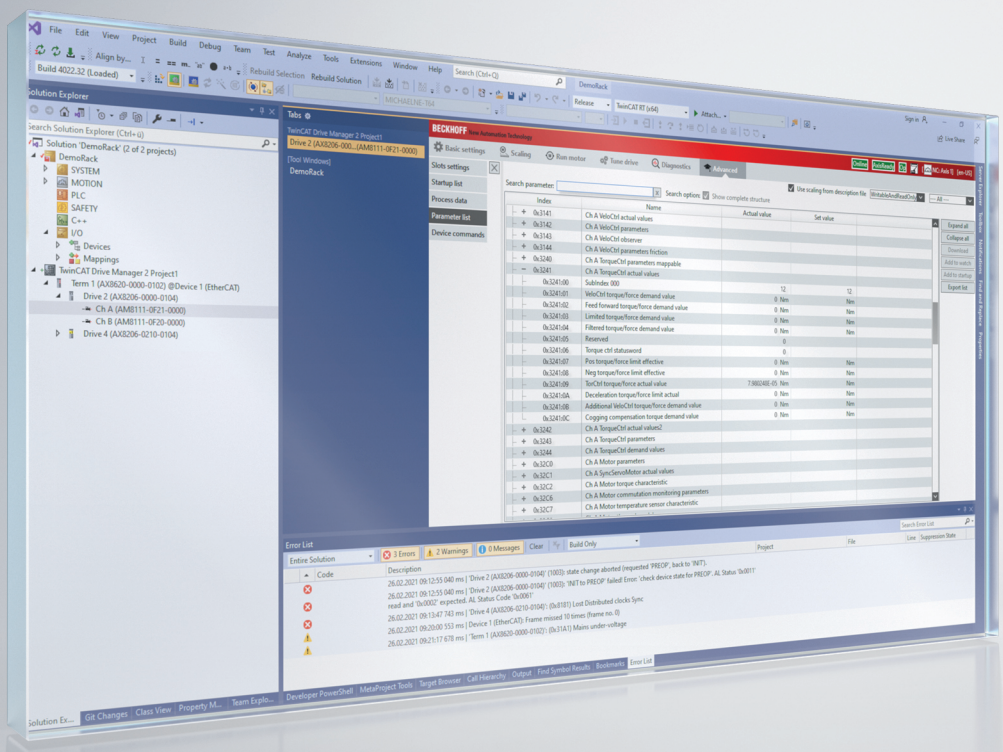
BECKHOFF New Automation Technology

Diagmessages | EN

AX1106-1201-0000

List of diagnostic messages for Economy servo drive, single-phase, single-axis module, 6.9 A, STO/SS1 (FSoE and I/O)



2026-11-11 | Version: FW1.03b0003

Table of contents

1 Documentation notes 5

2 Diagmessages 11

2.1 Standard-Messages 11
2.2 DiagMessages of module DeviceMain 29
2.3 DiagMessages of module PowerManagementAC1 33
2.4 DiagMessages of module AxisMainAX1 51
2.5 DiagMessages of module Interpolator 74
2.6 DiagMessages of module PositionControl 75
2.7 DiagMessages of module VelocityControl 76
2.8 DiagMessages of module BiquadFilter 78
2.9 DiagMessages of module TorqueControl 79
2.10 DiagMessages of module SynchronousMotor 81
2.11 DiagMessages of module AsynchronousMotor 88
2.12 DiagMessages of module HpfDslRotary 95
2.13 DiagMessages of module SimulationRotary 119
2.14 DiagMessages of module DeviceDebug 144
2.15 DiagMessages of module AxisDebug 144
2.16 DiagMessages of module Safety 145

1 Documentation notes

Version Info

This reference manual contains the CoE objects and Diag Messages of the following device.

Description	Value
Device	AX1106-1201
ESI Revision	103 (AX1106-1201-0103)
Firmware Version	FW1.03b0003

Explanation of substitutes and symbols

ESI Modules

ESI modules are used to encapsulate and selectively activate specific functions or properties of a device. They have a separate set of objects and PDOs that are independent of the device's basic object dictionary. When an ESI module is activated, the device object dictionary is extended by the objects and PDOs of the specific module. The device's ESI file contains information about which modules can be used for that device.

Slots and Supported Modules

A slot is a placeholder for an ESI module. A device can support multiple slots. Only one module can be plugged into a slot. The number of slots supported by a device limits the maximum number of ESI modules that can be plugged into the device simultaneously. Each slot has a predefined subset of modules that can be used. Modules can only be plugged into slots that accept the respective module.

Multiple Use of a Module

An ESI module can be activated on multiple slots in order to use the functionality it contains multiple times. Each time a module is instantiated, the relevant object indices are incremented depending on the slot group and slot position. This ensures that object indices remain unique even if the module is used multiple times. The increment step is defined in the EtherCAT device and depends on the module and the slot.

Readability

For orientation purposes independent of the object index, identifiers are used in the names of module objects to make the assignment to a slot and slot group readable. In the configuration tool, these identifiers are replaced by a designation derived from the respective slot and slot group.

Description of the Identifiers

The following identifiers apply exclusively to objects of ESI modules and not to device objects. When instantiated, objects of an ESI module replace the following identifiers in their object names according to the system described below:

Substitute	Name	Replaced in the object name by
[SL]	Slot name	The specific slot name
[SG]	Slot group	The specific slot group name
%S	Slot number	The specific slot number, starting at 1
%G	Slot group number	The specific slot group number, starting at 1
%C	Slot number within the slot group	The specific slot number within the slot group, starting at 1

Nomenclature

Name	Description
Module	ESI module; a named, separate set of objects and PDOs.
Slot	Depending on the context, this refers either to the slot as a whole or to the slot position.
Slot group	Depending on the context, this refers either to the slot group number or to the slot group name.

Slotconfiguration

Slot (global)	Slotgroup	Name	Modules
1 (1)	0	DeviceMainSlot	DeviceMain
2 (2)	0	PowerManagementSlot	PowerManagementAC1
3 (3)	0	*-- empty --*	
4 (4)	0	*-- empty --*	
5 (5)	0	*-- empty --*	
6 (6)	0	*-- empty --*	
7 (7)	0	*-- empty --*	
8 (8)	0	*-- empty --*	
9 (9)	0	*-- empty --*	
10 (10)	0	*-- empty --*	
11 (11)	0	SafetySlot	Safety
12 (12)	0	*-- empty --*	
13 (13)	0	*-- empty --*	
14 (14)	0	*-- empty --*	
15 (15)	0	*-- empty --*	
16 (16)	0	*-- empty --*	
17 (17)	0	*-- empty --*	
18 (18)	0	*-- empty --*	
19 (19)	0	*-- empty --*	
20 (20)	0	*-- empty --*	
21 (21)	0	*-- empty --*	
22 (22)	0	*-- empty --*	
23 (23)	0	*-- empty --*	
24 (24)	0	*-- empty --*	
25 (25)	0	*-- empty --*	
26 (26)	0	*-- empty --*	
27 (27)	0	*-- empty --*	
28 (28)	0	*-- empty --*	
29 (29)	0	*-- empty --*	
30 (30)	0	*-- empty --*	
31 (31)	0	*-- empty --*	
32 (32)	0	DeviceDebugSlot *(optional)*	DeviceDebug
1 (33)	1	AxisMainSlot	AxisMainAX1
2 (34)	1	*-- empty --*	
3 (35)	1	*-- empty --*	
4 (36)	1	InterpolatorSlot	Interpolator
5 (37)	1	*-- empty --*	
6 (38)	1	*-- empty --*	
7 (39)	1	PositionControlSlot	PositionControl
8 (40)	1	*-- empty --*	
9 (41)	1	*-- empty --*	
10 (42)	1	*-- empty --*	
11 (43)	1	VelocityControlSlot	VelocityControl
12 (44)	1	BiquadFilterSlot *(optional)*	BiquadFilter
13 (45)	1	*-- empty --*	

Slot (global)	Slotgroup	Name	Modules
14 (46)	1	*-- empty --*	
15 (47)	1	*-- empty --*	
16 (48)	1	*-- empty --*	
17 (49)	1	*-- empty --*	
18 (50)	1	*-- empty --*	
19 (51)	1	TorqueControlSlot	TorqueControl
20 (52)	1	*-- empty --*	
21 (53)	1	*-- empty --*	
22 (54)	1	*-- empty --*	
23 (55)	1	MotorSlot	AsynchronousMotor SynchronousMotor
24 (56)	1	PrimaryFeedbackSlot *(optional)*	HpfDslRotary SimulationRotary
25 (57)	1	*-- empty --*	
26 (58)	1	*-- empty --*	
27 (59)	1	*-- empty --*	
28 (60)	1	*-- empty --*	
29 (61)	1	*-- empty --*	
30 (62)	1	*-- empty --*	
31 (63)	1	*-- empty --*	
32 (64)	1	AxisDebugSlot *(optional)*	AxisDebug

UnitTable

A List of the active Units of this Project.

Index	Name	Symbol
0x400	none	
0x401	metre	m
0x402	kilogram	kg
0x403	second	s
0x404	ampere	A
0x405	kelvin	K
0x406	mole	mol
0x407	candela	cd
0x410	Radian	rad
0x411	Steradin	sr
0x420	Hertz	Hz
0x421	Newton	N
0x422	Pascal	Pa
0x423	Joule	J
0x424	Watt	W
0x425	Coulomb	C
0x426	Volt	V
0x427	Farad	F
0x428	Ohm	Ohm
0x429	Siemens	S
0x42A	Weber	Wb
0x42B	Tesla	T

Index	Name	Symbol
0x42C	Henry	H
0x42D	Degree Celsius	°C
0x42E	Lumen	lm
0x42F	Lux	lx
0x430	bequerel	Bq
0x431	Gray	Gy
0x432	Sievert	Sv
0x433	Katal	kat
0x440	Grade	g*
0x441	Angle Degree	°
0x442	Angle Minute	'
0x443	Angle Second	"
0x444	Litre	l
0x445	Are	a
0x446	Hectare	ha
0x447	Minute	min
0x448	Hour	h
0x449	Day	D
0x44A	Year	a
0x44B	Gram	g
0x44C	Ton	t
0x44E	Bar	bar
0x44F	Poise	P
0x450	Stokes	St
0x451	Electron Volt	eV
0x452	Atomic Mass Unit	u
0x453	Astronomic Unit	AU
0x454	Parsec	pc
0x455	Meter per square second	m/s^2
0x456	Newtonmetre	Nm
0x457	Square second	s^2
0x458	Square metre	m^2
0x459	Cubic metre	m^3
0x45A	Pascal second	Pa s
0x45B	Joule per kilogram Kelvin	J/(kg K)
0x45C	Watt per meter Kelvin	W/(m K)
0x45D	Joule per mole Kelvin	J/(m K)
0x45E	Watt per square metre steradian	W((m^2 sr)
0x45F	Katal per cubic metre	kat/m^3
0x4B0	Increments	inc
0x4B1	Revolution	rev
0x4B2	Revolution speed	rad/s
0x4B3	Moment of inertia	g cm^2
0x4B4	Moment of inertia SI	kg m^2
0x4B5	Revolutions/Minute	rpm
0x4B6	Meter/Second	m/s
0x4B7	Percent	%
0x4B8	cubic Second	s^3

Index	Name	Symbol
0x4B9	Digits	dig
0x4BA	Degree/Second	°/s
0x4BB	Revolution acceleration	rad/s^2
0x4BC	Steps	step

ScalingTable

A List of the active ScalingTypes of this Project.

Index	Function	Target Datatype
0x0	x * 1	LREAL
0x208	x * (1/256)nm	LREAL
0x1210	x * (360/65536)°	LREAL
0x1211	x * (360/131072)°	LREAL
0x1212	x * (360/262144)°	LREAL
0x1213	x * (360/524288)°	LREAL
0x1214	x * (360/1048576)°	LREAL
0x1215	x * (360/2097152)°	LREAL
0x1216	x * (360/4194304)°	LREAL
0x1217	x * (360/8388608)°	LREAL
0x1218	x * (360/16777216)°	LREAL
0x1219	x * (360/33554432)°	LREAL
0x121A	x * (360/67108864)°	LREAL
0x121B	x * (360/134217728)°	LREAL
0x121C	x * (360/268435456)°	LREAL
0x121D	x * (360/536870912)°	LREAL
0x121E	x * (360/1073741824)°	LREAL
0x121F	x * (360/2147483648)°	LREAL
0x1220	x * (360/4294967296)°	LREAL
0x1A00	x * 1E-06 m	LREAL
0x1A01	x * 1E-07 m	LREAL
0x1A02	x * 1E-08 m	LREAL
0x1A03	x * 1E-09 m	LREAL
0x1A04	x * 1E-10 m	LREAL
0x1A05	x * 1E-11 m	LREAL
0x1A06	x * 1E-12 m	LREAL
0x2000	x * 0.0001 rpm	REAL
0x2100	x * 1E-07 m/s	REAL
0x3000	x * 1 °/s^2	REAL
0x3100	x * 0.001 m/s^2	REAL
0x4000	x * 100 °/s^3	REAL
0x4100	x * 0.1 m/s^3	REAL
0x5000	x * 1 Nm	REAL
0x5100	x * 1 N	REAL
0x6210	x * (360/65536)°/s	LREAL
0x6211	x * (360/131072)°/s	LREAL
0x6212	x * (360/262144)°/s	LREAL
0x6213	x * (360/524288)°/s	LREAL
0x6214	x * (360/1048576)°/s	LREAL
0x6215	x * (360/2097152)°/s	LREAL

Index	Function	Target Datatype
0x6216	x * (360/4194304)°/s	LREAL
0x6217	x * (360/8388608)°/s	LREAL
0x6218	x * (360/16777216)°/s	LREAL
0x6219	x * (360/33554432)°/s	LREAL
0x621A	x * (360/67108864)°/s	LREAL
0x621B	x * (360/134217728)°/s	LREAL
0x621C	x * (360/268435456)°/s	LREAL
0x621D	x * (360/536870912)°/s	LREAL
0x621E	x * (360/1073741824)°/s	LREAL
0x621F	x * (360/2147483648)°/s	LREAL
0x6220	x * (360/4294967296)°/s	LREAL
0x6A00	x * 1E-06 m/s	LREAL
0x6A01	x * 1E-07 m/s	LREAL
0x6A02	x * 1E-08 m/s	LREAL
0x6A03	x * 1E-09 m/s	LREAL
0x6A04	x * 1E-10 m/s	LREAL
0x6A05	x * 1E-11 m/s	LREAL
0x6A06	x * 1E-12 m/s	LREAL
0x7000	x * 0.0001 rpm/s	REAL
0x7100	x * 1E-07 m/s^2	REAL
0x8000	x * 1 rpm	REAL
0x8100	x * 1 m/s	REAL
0x9000	x * 1 Nm/rad/s	REAL
0x9100	x * 1 N/m/s	REAL
0xA000	x * 1 Nm/rad	REAL
0xA100	x * 1 N/m	REAL
0xB000	x * 1 kg m^2	REAL
0xB100	x * 1 kg	REAL

2 Diagmessages

2.1 Standard-Messages

0x0000 | No Error

This Message is thrown always, if the Device enters an error-free state.

Diagnostic code	Class	Type	Standard reaction	Reset
0x0000 (0_{dez})	Info	Information	No	Information: No reset required.

Possible causes	Solutions
An Axis entered the error free state.	

0x5190 | Test 5V supply failed

Diagnostic code	Class	Type	Standard reaction	Reset
0x5190 (20880_{dez})	Error	Error	Axis is inoperable	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
There is an internal hardware error.	Send the device to the Beckhoff branch office that is responsible for you.

0x5193 | Need cold start

Diagnostic code	Class	Type	Standard reaction	Reset
0x5193 (20883_{dez})	Error	Error	Axis is inoperable	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
The actual configuration requires a cold start to be activated.	Please switch the 24V supply voltage of this device off and on.

0x5194 | Obsolete bootloader detected. Please update.

Diagnostic code	Class	Type	Standard reaction	Reset
0x5194 (20884_{dez})	Error	Error	Axis is inoperable	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
The firmware detected an obsolete bootloader, which might be a debug version.	Please update to the latest release version.

0x5195 | Something went wrong during updating FPGA Image UU. Please try again.

Diagnostic code	Class	Type	Standard reaction	Reset
0x5195 (20885_{dez})	Error	Error	Axis is inoperable	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
The firmware detected some missing or invalid parts in the flash layout.	Please update to the latest release version.

0x5196 | The hardware isn't supported by this firmware.

Diagnostic code	Class	Type	Standard reaction	Reset
0x5196 (20886_{dez})	Error	Error	Axis is inoperable	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
The firmware detected a not compatible hardware	Please update the firmware to an appropriate one.

0x5197 | Hardware initialization failed, Additional Errorcode 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x5197 (20887_{dez})	Error	Error	Axis is inoperable	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
The hardware initialization routine failed.	Send the device to the Beckhoff branch office that is responsible for you.

0x5583 | Unexpected EEPROM

Full text of the message displayed in the TwinCAT System Manager:
(0x5583) Unexpected EEPROM Pcb ID %u.
The Identity EEPROM of a Pcb is unexpected. This Device shouldn't contain this Pcb.
- ID 0: ControlPcb
- ID 1: FrontPcb
- ID 2: AdditionalAxisPcb
- ID 3: DisplayPcb
- ID 6: SafetyPcb
- ID 7: CpuPcb

Diagnostic code	Class	Type	Standard reaction	Reset
0x5583 (21891_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
This Message is generated instead of 0x5585, if you are using a debug Firmware.	

0x5585 | Unexpected EEPROM

Full text of the message displayed in the TwinCAT System Manager:
(0x5585) Unexpected EEPROM Pcb ID %u.
The Identity EEPROM of a Pcb is unexpected. This Device shouldn't contain this Pcb.
- ID 0: ControlPcb
- ID 1: FrontPcb
- ID 2: AdditionalAxisPcb
- ID 3: DisplayPcb
- ID 6: SafetyPcb
- ID 7: CpuPcb

Diagnostic code	Class	Type	Standard reaction	Reset
0x5585 (21893$_{dez}$)	Error	Error	Axis is inoperable	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
There is an internal hardware error.	Send the device to the Beckhoff branch office that is responsible for you.

0x5586 | Restored Errormessages from persistent memory

The persistent Memory contains an errorlog. The messages are restored during power on phase.

Diagnostic code	Class	Type	Standard reaction	Reset
0x5586 (21894$_{dez}$)	Info	Information	No	Information: No reset required.

0x5587 | The internal eeprom data synchronization (Id=0xXX) failed!

The internal eeprom data synchronization failed! Some additional information in the ESI eeprom (production date, version info, BIC, ...) may be wrong or outdated!

Diagnostic code	Class	Type	Standard reaction	Reset
0x5587 (21895$_{dez}$)	Warning	Warning	No	Warning: No reset required.

0x5588 | Detected incompatible Pcb

Full text of the message displayed in the TwinCAT System Manager:
(0x5588) Detected a internal device incompatibiliy! Patch ESI revision number high to 9999 and add category entry FwUpdateReq. Arg=%u

Diagnostic code	Class	Type	Standard reaction	Reset
0x5588 (21896$_{dez}$)	Error	Error	Torque off	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
Internal device incompatibility	Fimware download

0x5589 | Read failure EEPROM

Full text of the message displayed in the TwinCAT System Manager:
(0x5589) Missing EEPROM data (%s)
Missing Data in the Identity EEPROM

Diagnostic code	Class	Type	Standard reaction	Reset
0x5589 (21897$_{dez}$)	Error	Error	No	Warning: No reset required.

Possible causes	Solutions
There is an internal hardware error.	Send the device to the Beckhoff branch office that is responsible for you.

0x558A | Read failure EEPROM

Full text of the message displayed in the TwinCAT System Manager:
(0x558A) Missing EEPROM data (%s)
Missing Data in the Identity EEPROM

Diagnostic code	Class	Type	Standard reaction	Reset
0x558A (21898$_{dez}$)	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
There is an internal hardware error.	Send the device to the Beckhoff branch office that is responsible for you.

0x5590 | Detected incompatible Pcb

Full text of the message displayed in the TwinCAT System Manager:
(0x5590) Detected incompatible Pcb at ID %u.
Detected incompatible Pcb for this Firmware.
- ID 0: ControlPcb
- ID 1: FrontPcb
- ID 2: AdditionalAxisPcb
- ID 3: DisplayPcb
- ID 6: SafetyPcb
- ID 7: CpuPcb

Diagnostic code	Class	Type	Standard reaction	Reset
0x5590 (21904$_{dez}$)	Error	Error	Torque off	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
This Hardware is unsupported of this Firmware.	Disconnect the power supply module from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.
The HardwareType is unknown.	Disconnect the power supply module from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.
The HardwareRevision is unsupported.	Disconnect the power supply module from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x5591 | Identity incompatible to a Pcb

Full text of the message displayed in the TwinCAT System Manager:
(0x5591) ESC EEPROM Identity is incompatible to Pcb ID %u.
Detected incompatible Pcb for this ESC EEPROM.
- ID 0: ControlPcb
- ID 1: FrontPcb
- ID 2: AdditionalAxisPcb
- ID 3: DisplayPcb
- ID 6: SafetyPcb
- ID 7: CpuPcb

Diagnostic code	Class	Type	Standard reaction	Reset
0x5591 (21905$_{dez}$)	Error	Error	Torque off	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
You might have updated the ESC EEPROM with the wrong Identity.	Perform an EEPROM Update with the Systemmanager.

0x5592 | FirmwareIndex is incompatible to this Firmware

Full text of the message displayed in the TwinCAT System Manager:
(0x5592) ESC EEPROM Pcb ID %u FirmwareIndex is incompatible to this Firmware.
Detected incompatible Pcb for this Firmware.
- ID 0: ControlPcb
- ID 1: FrontPcb
- ID 2: AdditionalAxisPcb
- ID 3: DisplayPcb
- ID 6: SafetyPcb
- ID 7: CpuPcb

Diagnostic code	Class	Type	Standard reaction	Reset
0x5592 (21906_{dez})	Error	Error	Torque off	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
This Hardware needs a newer Firmware.	Ask the Beckhoff branch office that is responsible for you for the right Firmwareversion.

0x5594 | Simulating persistent data features.

If you see this Message, all persistent Data will start with zero Values on PowerOn.

Diagnostic code	Class	Type	Standard reaction	Reset
0x5594 (21908_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
Persistent Memory is not supported in the early Hardware Versions.	

0x5596 | Storing of persistent data failed.

Diagnostic code	Class	Type	Standard reaction	Reset
0x5596 (21910_{dez})	Error	Error	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
There is an internal hardware error.	Send the device to the Beckhoff branch office that is responsible for you.

0x5597 | Unsupported prototype hardware.

The Firmware detected an unsupported prototype Hardware.

Diagnostic code	Class	Type	Standard reaction	Reset
0x5597 (21911_{dez})	Error	Error	Torque off	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
The Hardware version (Object 0x1009) is below 01.00	Use a hardware version 01.00 or higher.

0x5598 | Identity incompatible to Device

Full text of the message displayed in the TwinCAT System Manager:
(0x5598) ESC EEPROM Identity is incompatible to Device.
Detected incompatible device type for this ESC EEPROM.

Diagnostic code	Class	Type	Standard reaction	Reset
0x5598 (21912$_{dez}$)	Error	Error	Torque off	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
You might have updated the ESC EEPROM with the wrong Identity.	Perform an EEPROM Update with the Systemmanager.

0x5599 | Identity incompatible to a Device

Full text of the message displayed in the TwinCAT System Manager:
(0x5599) ESC EEPROM Identity is incompatible to Device.
Detected incompatible device type for this ESC EEPROM.

Diagnostic code	Class	Type	Standard reaction	Reset
0x5599 (21913$_{dez}$)	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
You might have updated the ESC EEPROM with the wrong Identity.	Perform an EEPROM Update with the Systemmanager.

0x559B | Unsupported Pcb type

Full text of the message displayed in the TwinCAT System Manager:
(0x559B) Unsupported Pcb type. Pcb ID %u.
Detected unsupported Pcb:
- ID 0: ControlPcb
- ID 1: FrontPcb
- ID 2: AdditionalAxisPcb
- ID 3: DisplayPcb
- ID 6: SafetyPcb
- ID 7: CpuPcb

Diagnostic code	Class	Type	Standard reaction	Reset
0x559B (21915$_{dez}$)	Error	Error	Torque off	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
The Pcb is not supported by this firmware.	Check the Beckhoff Homepage for a newer Firmware.

0x559E | Unsupported FPGA configuration

Full text of the message displayed in the TwinCAT System Manager:
(0x559E) Unsupported FPGA configuration! Found ver=%u, patch=%u, Required ver=%u, patch=%u
Detected unsupported FPGA

Diagnostic code	Class	Type	Standard reaction	Reset
0x559E (21918$_{dez}$)	Error	Error	Torque off	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
The Fpga is not supported by this firmware.	Please contact the Beckhoff branch office that is responsible for you.

0x589C | Read failure EEPROM

Full text of the message displayed in the TwinCAT System Manager:
(0x589C) Persistent data seems to be corrupted. (0x%x)
The content of the persistent data memory seems to be corrupted.

Diagnostic code	Class	Type	Standard reaction	Reset
0x589C (22684_{dez})	Error	Error	Axis is inoperable	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
There is an internal hardware error.	Send the device to the Beckhoff branch office that is responsible for you.

0x589D | Prototype hardware might not be supported with actual safety firmware

Prototype hardware might not be supported with actual safety firmware.

Diagnostic code	Class	Type	Standard reaction	Reset
0x589D (22685_{dez})	Warning	Warning	No	Warning: No reset required.

0x58A1 | Persistent data access error

Full text of the message displayed in the TwinCAT System Manager:
(0x58A1) Persistent data access error. (0x%x)
The persistent data memory access failed.

Diagnostic code	Class	Type	Standard reaction	Reset
0x58A1 (22689_{dez})	Error	Error	Axis is inoperable	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
There is an internal hardware error.	Send the device to the Beckhoff branch office that is responsible for you.

0x6180 | Internal Software Error Type A

Full text of the message displayed in the TwinCAT System Manager:
(0x6180) Internal Software Error Type A, Additional Errorcode 0x%x
Fatal Software Error.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6180 (24960_{dez})	Error	Error	Open loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Fatal Software Exception Error.	Please switch the 24 V supply off and on again. If this happens again, contact the Beckhoff branch office that is responsible for you.

0x6181 | Internal Software Error Type B

Full text of the message displayed in the TwinCAT System Manager:
(0x6181) Internal Software Error Type B, Additional Errorcode 0x%x
Fatal Software Error.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6181 (24961$_{dez}$)	Error	Error	Open loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Fatal Software Exception Error.	Please switch the 24 V supply off and on again. If this happens again, contact the Beckhoff branch office that is responsible for you.

0x6182 | Internal Software Error Type C

Full text of the message displayed in the TwinCAT System Manager:
(0x6182) Internal Software Error Type C, Additional Errorcode 0x%x
Fatal Software Error.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6182 (24962$_{dez}$)	Error	Error	Open loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Fatal Software Exception Error.	Please switch the 24 V supply off and on again. If this happens again, contact the Beckhoff branch office that is responsible for you.

0x6183 | FPU Exception, FPU status 0xXX

Fatal Software Error.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6183 (24963$_{dez}$)	Error	Error	Axis is inoperable	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
FPU exception	Please switch the 24 V supply off and on again. If this happens again, contact the Beckhoff branch office that is responsible for you.

0x6190 | Init Timeout

Full text of the message displayed in the TwinCAT System Manager:
(0x6190) Init Timeout, Slotnumber %u

Diagnostic code	Class	Type	Standard reaction	Reset
0x6190 (24976$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The initialization process of this slot was working for a very long time.	Please check the Parameters of this module and try again.

0x6382 | Illegal Slotconfiguration. Slot is empty.

Full text of the message displayed in the TwinCAT System Manager:
(0x6382) Illegal Slotconfiguration. Slot %u is empty.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6382 (25474$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A Slot which should contain a Module must be empty.	Please select a legal Module for this Slot.

0x6383 | Illegal Slotconfiguration. Double Feedback Selection.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6383 (25475_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A Feedback Module, which is only possible one time per Axis was selected as primary and secondary Encoder.	Please select another Feedback as primary or secondary Encoder.

0x6384 | Illegal Slotconfiguration. Slot has to be empty.

Full text of the message displayed in the TwinCAT System Manager:
(0x6384) Illegal Slotconfiguration. Slot %u has to be empty.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6384 (25476_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A Slot which should be empty contains a Module.	Please remove the Module from this Slot.

0x6385 | Illegal Slotconfiguration. Unsupported Module.

Full text of the message displayed in the TwinCAT System Manager:
(0x6385) Illegal Slotconfiguration. Slot %u contains unsupported ModuleIdent 0x%x.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6385 (25477_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A Slot contains an unsupported ModuleIdent.	Please select a legal Module for this Slot.

0x63B0 | Module in slot II: Transition Pre-Op to Safe-Op (ECat) not successful (hr=0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x63B0 (25520_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The module in the mentioned slot reports during the ECat-Transition Safe-Op to Op an error.	

0x63B1 | Module in slot II: Transition Safe-Op to Op (ECat) not successful (hr=0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x63B1 (25521_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The module in the mentioned slot reports during the ECat-Transition Safe-Op to Op an error.	

0x63B2 | Module in slot II: Transition Op to Safe-Op (ECat) not successful (hr=0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x63B2 (25522_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The module in the mentioned slot reports during the ECat-Transition Safe-Op to Op an error.	

0x63B3 | Module in slot II: Transition Safe-Op to Pre-Op (ECat) not successful (hr=0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x63B3 (25523_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The module in the mentioned slot reports during the ECat-Transition Safe-Op to Op an error.	

0x63B4 | Illegal Slotconfiguration. The selected feedback combination is not supported.

Diagnostic code	Class	Type	Standard reaction	Reset
0x63B4 (25524_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The some of the configured types of feedback are not supported at the same time.	Please check the feedback configuration of all axes of this device.

0x8180 | System restart or sync lost

Diagnostic code	Class	Type	Standard reaction	Reset
0x8180 (33152_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The Slave has received no ProcessData for more than one EtherCAT Cycle.	Check the realtime Tasks of your EtherCAT Master.

0x8181 | Lost Distributed clocks Sync

Diagnostic code	Class	Type	Standard reaction	Reset
0x8181 (33153_{dez})	Error	Communication error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The Software Sync PLL has left it's locked State.	Check your EtherCAT Sync0 configuration.

0x8186 | Invalid sync out unit configuration. Actual value is 0xXX and has to be 0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x8186 (33158_{dez})	Error	Communication error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Invalid sync out unit configuration	Check your EtherCAT Master configuration.

0xA000 | Transition Pre-Op to Safe-Op not successful. Sync Manager Length Error.

Full text of the message displayed in the TwinCAT System Manager:
(0xA000) Transition Pre-Op to Safe-Op not successful. Sync Manager %u Length Error. Requested Length=0x%x is not between Min=0x%x and Max=0x%x

Diagnostic code	Class	Type	Standard reaction	Reset
0xA000 (40960_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The Parameters of the CoE Communication Objects do not fit the Sync Manager Parameters.	Please check, if you are working with the right EtherCAT Device Description XML-File.

0xA001 | Transition Pre-Op to Safe-Op not successful. Sync Manager Address Error.

Full text of the message displayed in the TwinCAT System Manager:
(0xA001) Transition Pre-Op to Safe-Op not successful. Sync Manager %u Address Error. Requested Address=0x%x is not between Min=0x%x and Max=0x%x

Diagnostic code	Class	Type	Standard reaction	Reset
0xA001 (40961_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The Parameters of the CoE Communication Objects do not fit the Sync Manager Parameters.	Please check, if you are working with the right EtherCAT Device Description XML-File.

0xA002 | Transition Pre-Op to Safe-Op not successful. Sync Manager Settings Error.

Full text of the message displayed in the TwinCAT System Manager:
(0xA002) Transition Pre-Op to Safe-Op not successful. Sync Manager %u Settings Error. 0x%x

Diagnostic code	Class	Type	Standard reaction	Reset
0xA002 (40962_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The Parameters of the CoE Communication Objects do not fit the Sync Manager Parameters.	Please check, if you are working with the right EtherCAT Device Description XML-File.

0xA003 | Transition Pre-Op to Safe-Op not successful. Sync Manager Address Range overlap.

Full text of the message displayed in the TwinCAT System Manager:
(0xA003) Transition Pre-Op to Safe-Op not successful. Sync Manager %u Address Range 0x%x..0x%x overlaps Sync Manager %u Address Range 0x%x..0x%x

Diagnostic code	Class	Type	Standard reaction	Reset
0xA003 (40963_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The Parameters of the CoE Communication Objects do not fit the Sync Manager Parameters.	Please check, if you are working with the right EtherCAT Device Description XML-File.

0xA004 | Sync Manager is disabled and has a Size unequal zero.

Full text of the message displayed in the TwinCAT System Manager:
(0xA004) Sync Manager %u is disabled. Sync Manager Size %u and the Calculated Size %u shall be zero.

Diagnostic code	Class	Type	Standard reaction	Reset
0xA004 (40964$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The Parameters of the CoE Communication Objects do not fit the Sync Manager Parameters.	Please check, if you are working with the right EtherCAT Device Description XML-File.

0xA005 | Sync Manager Address is not multiple of 4.

Full text of the message displayed in the TwinCAT System Manager:
(0xA005) Sync Manager %u Address 0x%x is not multiple of 4.

Diagnostic code	Class	Type	Standard reaction	Reset
0xA005 (40965$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The Sync Manager Startaddress is not a multiple of 4.	Configure the Startaddress to a multiple of 4. (32 Bit Alignment)

0xA00B | Dynamic Sync Manager Address is not multiple of 4.

Full text of the message displayed in the TwinCAT System Manager:
(0xA00B) Dynamic Sync Manager %u Address 0x%x is not multiple of 4.

Diagnostic code	Class	Type	Standard reaction	Reset
0xA00B (40971$_{dez}$)	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
The Sync Manager Startaddress is not a multiple of 4.	Configure the Startaddress to a multiple of 4. (32 Bit Alignment)

0xA00C | Dynamic Sync Manager Address Range overlap.

Full text of the message displayed in the TwinCAT System Manager:
(0xA00C) Dynamic Sync Manager %u Address Range 0x%x..0x%x overlaps Sync Manager %u Address Range 0x%x..0x%x

Diagnostic code	Class	Type	Standard reaction	Reset
0xA00C (40972$_{dez}$)	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
The Parameters of the CoE Communication Objects do not fit the Sync Manager Parameters.	Please check, if you are working with the right EtherCAT Device Description XML-File.

0xA00D | Dynamic Sync Manager Settings Error.

Full text of the message displayed in the TwinCAT System Manager:
(0xA00D) Dynamic Sync Manager %u Settings Error. 0x%x

Diagnostic code	Class	Type	Standard reaction	Reset
0xA00D (40973$_{dez}$)	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
The Parameters of the CoE Communication Objects do not fit the Sync Manager Parameters.	Please check, if you are working with the right EtherCAT Device Description XML-File.

0xA00E | Dynamic Sync Manager Address Error.

Full text of the message displayed in the TwinCAT System Manager:
(0xA00E) Dynamic Sync Manager %u Address Error. Requested Address=0x%x is not between Min=0x%x and Max=0x%x

Diagnostic code	Class	Type	Standard reaction	Reset
0xA00E (40974_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
The Parameters of the CoE Communication Objects do not fit the Sync Manager Parameters.	Please check, if you are working with the right EtherCAT Device Description XML-File.

0xA00F | Dynamic Sync Manager Length Error.

Full text of the message displayed in the TwinCAT System Manager:
(0xA00F) Dynamic Sync Manager %u Length Error. Requested Length=0x%x is not between Min=0x%x and Max=0x%x

Diagnostic code	Class	Type	Standard reaction	Reset
0xA00F (40975_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
The Parameters of the CoE Communication Objects do not fit the Sync Manager Parameters.	Please check, if you are working with the right EtherCAT Device Description XML-File.

0xA010 | SDO Complete Access Error: Object 0xXX/XX, SDO Abortcode 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xA010 (40976_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The complete access write to this parameter failed.	Please write your values with single access.

0xA011 | Pdo Mapping Error: Unable to map Object (not possible).

Full text of the message displayed in the TwinCAT System Manager:
(0xA011) Pdo Mapping Error: Unable to map Object 0x%x/%x.(not possible) (SyncManager %u)

Diagnostic code	Class	Type	Standard reaction	Reset
0xA011 (40977_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A mapping Parameter is not supported of this Device.	Please check, your mapping Configuration.

0xA013 | Pdo Mapping Error: Double Mapping of Object.

Full text of the message displayed in the TwinCAT System Manager:
(0xA013) Pdo Mapping Error: Double Mapping of Object 0x%x/%x (SyncManager %u)

Diagnostic code	Class	Type	Standard reaction	Reset
0xA013 (40979_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A mapping Parameter is not supported of this Device.	Please check, your mapping Configuration.

0xA015 | Pdo Mapping Error: Unable to map Object (no Mappings left).

Full text of the message displayed in the TwinCAT System Manager:
(0xA015) Pdo Mapping Error: Unable to map Object 0x%x/%x.(no Mappings left) (SyncManager %u)

Diagnostic code	Class	Type	Standard reaction	Reset
0xA015 (40981_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A mapping Parameter is not supported of this Device.	Please check, your mapping Configuration.

0xA017 | Pdo Mapping Error: Object has to be mapped always.

Full text of the message displayed in the TwinCAT System Manager:
(0xA017) Pdo Mapping Error: Object 0x%x/%x has to be mapped always.
The Object has to be mapped always.

Diagnostic code	Class	Type	Standard reaction	Reset
0xA017 (40983_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An object, which must be in the mapping is not mapped.	Please add a mapping to the mentioned object.

0xA019 | Pdo Mapping Error: Object has to be mapped because of modes of operation.

Full text of the message displayed in the TwinCAT System Manager:
(0xA019) Pdo Mapping Error: Object 0x%x/%x has to be mapped for modes of operation %d.
Your actual requested Modes of Operation requires the mentioned Object in the Mapping.

Diagnostic code	Class	Type	Standard reaction	Reset
0xA019 (40985_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A mapping Parameter is not supported of this Device.	Please check, your mapping Configuration.

0xA01B | Pdo BitMapping Error: Object A is not next to Object B.

Full text of the message displayed in the TwinCAT System Manager:
(0xA01B) Pdo BitMapping Error: Object 0x%x/%x is not next to Object 0x%x/%x. (SyncManager %u)

Diagnostic code	Class	Type	Standard reaction	Reset
0xA01B (40987_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A mapping Parameter is not supported of this Device.	Please check, your mapping Configuration.

0xA01D | Pdo BitMapping Error: Can not Transform Bit-Mappings to Byte-Mappings.

Full text of the message displayed in the TwinCAT System Manager:
(0xA01D) Pdo BitMapping Error: Can not Transform Bit-Mappings to Byte-Mappings. (SyncManager %u)

Diagnostic code	Class	Type	Standard reaction	Reset
0xA01D (40989_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A mapping Parameter is not supported of this Device.	Please check, your mapping Configuration.

0xA01F | Pdo Mapping Error: Invalid Oversampling Factor.

Full text of the message displayed in the TwinCAT System Manager:
(0xA01F) Pdo Mapping Error: Invalid Oversampling Factor (%u) Object 0x%x/%x (SyncManager %u).
The oversampling factor of the mentioned Object is not possible.

Diagnostic code	Class	Type	Standard reaction	Reset
0xA01F (40991_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The Number of samples is higher than the Sync1/ Sync0 ratio.	Please check, your mapping Configuration.
Sync1/Sync0 ratio divided through the number of samples is not integer.	Please check, your mapping Configuration.

0xA021 | Pdo Mapping Error: Oversampling is not allowed.

Full text of the message displayed in the TwinCAT System Manager:
(0xA021) Pdo Mapping Error: Oversampling is not allowed for Object 0x%x/%x (SyncManager %u).
Oversampling is not allowed for the mentioned Object.

Diagnostic code	Class	Type	Standard reaction	Reset
0xA021 (40993_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The mapping parameters contain oversampling for an object which doesn't support oversampling.	Please check, your mapping Configuration.

0xA023 | Pdo Assignment Error

Full text of the message displayed in the TwinCAT System Manager:
(0xA023) Pdo Assignment Error: Assignment 0x%x%x contains a Pdo 0x%x which doesn't exist.
The Pdo Assignment List contains a Pdo which doesn't exist.

Diagnostic code	Class	Type	Standard reaction	Reset
0xA023 (40995_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
You might have used a Debug XML-Description in your actual Project.	Please refresh your XML-Description and insert a new Instance of this Device in your Project.

0xA031 | DynPdo Mapping Warning: Unable to map Object (not possible).

Full text of the message displayed in the TwinCAT System Manager:
(0xA031) DynPdo Mapping Warning: Unable to map Object 0x%x/%x.(not possible) (SyncManager %u)

Diagnostic code	Class	Type	Standard reaction	Reset
0xA031 (41009_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
A mapping Parameter is not supported of this Device.	Please check, your mapping Configuration.

0xA033 | DynPdo Mapping Warning: Double Mapping of Object.

Full text of the message displayed in the TwinCAT System Manager:
(0xA033) DynPdo Mapping Warning: Double Mapping of Object 0x%x/%x (SyncManager %u)

Diagnostic code	Class	Type	Standard reaction	Reset
0xA033 (41011_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
A mapping Parameter is not supported of this Device.	Please check, your mapping Configuration.

0xA035 | DynPdo Mapping Warning: Unable to map Object (no Mappings left).

Full text of the message displayed in the TwinCAT System Manager:
(0xA035) DynPdo Mapping Warning: Unable to map Object 0x%x/%x.(no Mappings left) (SyncManager %u)

Diagnostic code	Class	Type	Standard reaction	Reset
0xA035 (41013_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
A mapping Parameter is not supported of this Device.	Please check, your mapping Configuration.

0xA037 | DynPdo Mapping Warning: Object has to be mapped always.

Full text of the message displayed in the TwinCAT System Manager:
(0xA037) DynPdo Mapping Warning: Object 0x%x/%x has to be mapped always.

Diagnostic code	Class	Type	Standard reaction	Reset
0xA037 (41015_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
A mapping Parameter is not supported of this Device.	Please check, your mapping Configuration.

0xA039 | DynPdo Mapping Warning: Object has to be mapped because of modes of operation.

Full text of the message displayed in the TwinCAT System Manager:
(0xA039) DynPdo Mapping Warning: Object 0x%x/%x has to be mapped for modes of operation %d.
Your actual requested Modes of Operation requires the mentioned Object in the Mapping.

Diagnostic code	Class	Type	Standard reaction	Reset
0xA039 (41017_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
A mapping Parameter is not supported of this Device.	Please check, your mapping Configuration.

0xA03B | DynPdo BitMapping Warning: Object A is not next to Object B.

Full text of the message displayed in the TwinCAT System Manager:
(0xA03B) DynPdo BitMapping Warning: Object 0x%x/%x is not next to Object 0x%x/%x. (SyncManager %u)

Diagnostic code	Class	Type	Standard reaction	Reset
0xA03B (41019_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
A mapping Parameter is not supported of this Device.	Please check, your mapping Configuration.

0xA03D | DynPdo BitMapping Warning: Can not Transform Bit-Mappings to Byte-Mappings.

Full text of the message displayed in the TwinCAT System Manager:
(0xA03D) DynPdo BitMapping Warning: Can not Transform Bit-Mappings to Byte-Mappings. (SyncManager %u)

Diagnostic code	Class	Type	Standard reaction	Reset
0xA03D (41021_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
A mapping Parameter is not supported of this Device.	Please check, your mapping Configuration.

0xA03F | DynPdo Mapping Warning: Invalid Oversampling Factor.

Full text of the message displayed in the TwinCAT System Manager:
(0xA03F) DynPdo Mapping Warning: Invalid Oversampling Factor (%u) Object 0x%x/%x (SyncManager %u).
The oversampling factor of the mentioned Object is not possible.

Diagnostic code	Class	Type	Standard reaction	Reset
0xA03F (41023_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
The Number of samples is higher than the Sync1/ Sync0 ratio.	Please check, your mapping Configuration.
Sync1/Sync0 ratio divided through the number of samples is not integer.	Please check, your mapping Configuration.

0xA041 | DynPdo Mapping Warning: Oversampling is not allowed.

Full text of the message displayed in the TwinCAT System Manager:
(0xA041) DynPdo Mapping Warning: Oversampling is not allowed for Object 0x%x/%x (SyncManager %u).
Oversampling is not allowed for the mentioned Object.

Diagnostic code	Class	Type	Standard reaction	Reset
0xA041 (41025_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
The mapping parameters contain oversampling for an object which doesn't support oversampling.	Please check, your mapping Configuration.

0xA043 | DynPdo Assignment Warning

Full text of the message displayed in the TwinCAT System Manager:
(0xA043) DynPdo Assignment Warning: Assignment 0x%x%x contains a Pdo 0x%x which doesn't exist.
The Pdo Assignment List contains a Pdo which doesn't exist.

Diagnostic code	Class	Type	Standard reaction	Reset
0xA043 (41027_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
You might have used a Debug XML-Description in your actual Project.	Please refresh your XML-Description and insert a new Instance of this Device in your Project.

0xA080 | Safe-Op is not possible because the local TwinCAT Runtime is in ConfigMode.

You should only see this Message, if you are a AX Developer.

Diagnostic code	Class	Type	Standard reaction	Reset
0xA080 (41088_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The internal TwinCAT Runtime is in ConfigMode.	

0xA081 | Transition Pre-Op to Safe-Op not successful. Safetycard not detected.

Diagnostic code	Class	Type	Standard reaction	Reset
0xA081 (41089_{dez})	Error	Error	Axis is inoperable	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
There is an internal hardware error.	Send the device to the Beckhoff branch office that is responsible for you.

0xA082 | EtherCAT Slave Stack Error:

Full text of the message displayed in the TwinCAT System Manager:
(0xA082) EtherCAT Slave Stack Error: AI Status Code 0x%x

Diagnostic code	Class	Type	Standard reaction	Reset
0xA082 (41090_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

0xA083 | Safe-Op is not possible in the current device state.

Safe-Op is not possible because the actual configuration requires a cold start.

Diagnostic code	Class	Type	Standard reaction	Reset
0xA083 (41091_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The actual configuration requires to reload some changes that arent allowed once the device is powered on.	Please switch the 24V supply voltage of this device off and on.
The device is in a fatal error state and not able to operate.	Check the diagnosis information which errors occured earlier.

0xFFFD | Debug firmware, replace "As soon as possible"!

Debug firmware: Replace ASAP!

Diagnostic code	Class	Type	Standard reaction	Reset
0xFFFD (65533_{dez})	Info	Information	No	Information: No reset required.

0xFFFF | Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xFFFF (65535_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the power supply module from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

2.2 DiagMessages of module DeviceMain

0x5580 | Read failure EEPROM

Full text of the message displayed in the TwinCAT System Manager:
(0x5580) Read failure EEPROM. Pcb ID %u.
Impossible to read Data from the Identity EEPROM of a Pcb. (no Response)
- ID 0: ControlPcb
- ID 1: FrontPcb
- ID 2: AdditionalAxisPcb
- ID 3: DisplayPcb
- ID 6: SafetyPcb
- ID 7: CpuPcb

Diagnostic code	Class	Type	Standard reaction	Reset
0x5580 (21888_{dez})	Error	Error	Axis is inoperable	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
There is an internal hardware error.	Send the device to the Beckhoff branch office that is responsible for you.

0x5581 | Checksum failure EEPROM

Full text of the message displayed in the TwinCAT System Manager:
(0x5581) Checksum failure EEPROM. Pcb ID %u.
Checksum failure in read Data from the Identity EEPROM of a Pcb. (no Response)
- ID 0: ControlPcb
- ID 1: FrontPcb
- ID 2: AdditionalAxisPcb
- ID 3: DisplayPcb
- ID 6: SafetyPcb
- ID 7: CpuPcb

Diagnostic code	Class	Type	Standard reaction	Reset
0x5581 (21889_{dez})	Error	Error	Axis is inoperable	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
There is an internal hardware error.	Send the device to the Beckhoff branch office that is responsible for you.

0x5582 | EEPROM contains blank Data

Full text of the message displayed in the TwinCAT System Manager:
(0x5582) EEPROM contains blank Data. Pcb ID %u.
The Identity EEPROM of a Pcb is blank. (no Response)
- ID 0: ControlPcb
- ID 1: FrontPcb
- ID 2: AdditionalAxisPcb
- ID 3: DisplayPcb
- ID 6: SafetyPcb
- ID 7: CpuPcb

Diagnostic code	Class	Type	Standard reaction	Reset
0x5582 (21890_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
This Message is generated instead of 0x5584, if you are using a debug Firmware or a special Prototype Hardware.	

0x5584 | EEPROM contains blank Data

Full text of the message displayed in the TwinCAT System Manager:
(0x5584) EEPROM contains blank Data. Pcb ID %u.
The Identity EEPROM of a Pcb is blank. (no Response)
- ID 0: ControlPcb
- ID 1: FrontPcb
- ID 2: AdditionalAxisPcb
- ID 3: DisplayPcb
- ID 6: SafetyPcb
- ID 7: CpuPcb

Diagnostic code	Class	Type	Standard reaction	Reset
0x5584 (21892_{dez})	Error	Error	Axis is inoperable	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
There is an internal hardware error.	Send the device to the Beckhoff branch office that is responsible for you.

0x5593 | Structure Version is incompatible to this Firmware

Full text of the message displayed in the TwinCAT System Manager:
(0x5593) ESC EEPROM Pcb ID %u Structure Version is incompatible with this Firmware.
Detected incompatible Pcb for this Firmware.
- ID 0: ControlPcb
- ID 1: FrontPcb
- ID 2: AdditionalAxisPcb
- ID 3: DisplayPcb
- ID 6: SafetyPcb
- ID 7: CpuPcb

Diagnostic code	Class	Type	Standard reaction	Reset
0x5593 (21907_{dez})	Error	Error	Torque off	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
This Hardware needs a newer Firmware.	Ask the Beckhoff branch office that is responsible for you for the right firmware version.

0x559A | Read failure EEPROM

Full text of the message displayed in the TwinCAT System Manager:
(0x559A) Read failure EEPROM. Pcb ID %u.
Impossible to read Data from the Identity EEPROM of a Pcb. (no Response)
- ID 0: ControlPcb
- ID 1: FrontPcb
- ID 2: AdditionalAxisPcb
- ID 3: DisplayPcb
- ID 6: SafetyPcb
- ID 7: CpuPcb

Diagnostic code	Class	Type	Standard reaction	Reset
0x559A (21914_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
There is an internal hardware error.	Send the device to the Beckhoff branch office that is responsible for you.

0x6184 | FPU Exception while CoE Write on 0xXX/XX ID1 0xXX ID2 0xXX.

Fatal Software Error.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6184 (24964_{dez})	Error	Error	Axis is inoperable	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
FPU exception during CoE Write processing.	Please switch the 24 V supply off and on again. If this happens again, contact the Beckhoff branch office that is responsible for you.

0x6185 | FPU Exception in Runtime ID1 0xXX ID2 0xXX.

Fatal Software Error.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6185 (24965_{dez})	Error	Error	Axis is inoperable	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
FPU exception during runtime.	Please switch the 24 V supply off and on again. If this happens again, contact the Beckhoff branch office that is responsible for you.

0x6320 | Parameter error in Object 0xXX/XX

The mentioned parameter contains a not accepted value.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6320 (25376_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Something is wrong with the parameters in this object.	Please check the parameters of the mentioned object.

0x7194 | The device output current exceeded the maximum allowed value.

The device output current exceeded the maximum allowed value.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7194 (29076_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The overall motor brake current exceeded the maximum allowed value.	Check your motor brake connection (wires and connectors).

0x8780 | Configured Sync1 Cycle Time is above Maximum

Full text of the message displayed in the TwinCAT System Manager:
(0x8780) Sync Controller: Configured Sync1 Cycle Time (%u ns) is above Maximum (%u ns).
The configured Sync1 Cycle Time is above the maximum.

Diagnostic code	Class	Type	Standard reaction	Reset
0x8780 (34688_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The Cycle Time of your NC-Task is above the supported maximum value of this drive.	Please set your Task to a shorter Cycle Time.

0x8781 | Configured Sync1 Cycle Time is below Minimum

Full text of the message displayed in the TwinCAT System Manager:
(0x8781) Sync Controller: Configured Sync1 Cycle Time (%u ns) is below Minimum (%u ns).
The configured Sync1 Cycle Time is below the minimum.

Diagnostic code	Class	Type	Standard reaction	Reset
0x8781 (34689_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The Cycle Time of your NC-Task is below the supported minimum value of this drive.	Please set your Task to a longer Cycle Time.

0x8782 | Configured Sync1 Cycle Time is not a multiple of the Sync0 Cycle Time

Full text of the message displayed in the TwinCAT System Manager:
(0x8782) Sync Controller: Configured Sync1 Cycle Time (%u ns) is not a multiple of the Sync0 Cycle Time (%u ns).
The configured Sync1 Cycle Time is not a multiple of the Sync0 Cycle Time.

Diagnostic code	Class	Type	Standard reaction	Reset
0x8782 (34690_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The Cycle Time of your NC-Task has to be a multiple of the drives Sync0 Cycle Time.	Please set your Task to a valid Cycle Time.

0x8783 | Configured Sync0 Cycle Time is not legal

Full text of the message displayed in the TwinCAT System Manager:
(0x8783) Sync Controller: Configured Sync0 Cycle Time (%u ns) is unequal %u ns.
The configured Sync0 Cycle Time is not the default Cycle Time.

Diagnostic code	Class	Type	Standard reaction	Reset
0x8783 (34691$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The configured Sync0 cycle time does not match the expected default cycle time.	Set the Sync0 cycle time to a supported default value and check the EtherCAT master Distributed-Clocks configuration.

0x8784 | Configured Sync1 Cycle Time is not a multiple of 250000ns

Full text of the message displayed in the TwinCAT System Manager:
(0x8784) Sync Controller: Configured Sync1 Cycle Time (%u ns) is not a multiple of 250000 ns.
The configured Sync1 Cycle Time is incorrect.

Diagnostic code	Class	Type	Standard reaction	Reset
0x8784 (34692$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The Cycle Time of your NC-Task has to be a multiple of 250000ns	Please set your Task to a valid Cycle Time.

0xA017 | Pdo Mapping Error: Object has to be mapped always.

Full text of the message displayed in the TwinCAT System Manager:
(0xA017) Pdo Mapping Error: Object 0x%x/%x has to be mapped always.
The Object has to be mapped always.

Diagnostic code	Class	Type	Standard reaction	Reset
0xA017 (40983$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An object, which must be in the mapping is not mapped.	Please add a mapping to the mentioned object.

0xFFFF | Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xFFFF (65535$_{dez}$)	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

2.3 DiagMessages of module PowerManagementAC1

0x0000 | [SG], [SL]: No errors

Diagnostic code	Class	Type	Standard reaction	Reset
0x0000 (0$_{dez}$)	Info	Information	No	Information: No reset required.

0x2310 | Continuous overcurrent. Output: UU.

Diagnostic code	Class	Type	Standard reaction	Reset
0x2310 (8976_{dez})	Error	Overcurrent error	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The system may be in an undefined position. The drive may be mechanically blocked.	Check the system.

0x2380 | Continuous overcurrent (total DC link out current)

Diagnostic code	Class	Type	Standard reaction	Reset
0x2380 (9088_{dez})	Error	DC link connection overcurrent error	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The requested DC link current exceeds the error threshold.	The total power required by the connected devices in the system is too high.

0x2381 | Continuous overcurrent. Output: UU. Reaction: Generative brake order

Diagnostic code	Class	Type	Standard reaction	Reset
0x2381 (9089_{dez})	Error	DC link connection overcurrent error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The system may be in an undefined position. The drive may be mechanically blocked.	Check the system.

0x2382 | Continuous overcurrent (total DC link out current). Reaction: Generative brake order

Diagnostic code	Class	Type	Standard reaction	Reset
0x2382 (9090_{dez})	Error	DC link connection overcurrent error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The requested DC link current exceeds the error threshold.	The total power required by the connected devices in the system is too high.

0x2383 | Continuous overcurrent. Output: UU. Reaction: Torque off

Diagnostic code	Class	Type	Standard reaction	Reset
0x2383 (9091_{dez})	Error	Overcurrent error	Torque off	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
The system may be in an undefined position. The drive may be mechanically blocked.	Check the system.

0x2385 | Peak overcurrent. Output: UU

Diagnostic code	Class	Type	Standard reaction	Reset
0x2385 (9093_{dez})	Error	Overcurrent error	Closed loop ramp	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
The requested current in one channel exceeds the peak current.	Reduce the acceleration of the axis.

0x2386 | Peak overcurrent (total DC link out current)

Diagnostic code	Class	Type	Standard reaction	Reset
0x2386 (9094_{dez})	Error	DC link connection overcurrent error	Closed loop ramp	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
The requested DC link current exceeds the peak current.	Make sure that all axes in the system are not accelerated at the same time.

0x2387 | Short circuit. Output: UU

Diagnostic code	Class	Type	Standard reaction	Reset
0x2387 (9095_{dez})	Error	Overcurrent error	Closed loop ramp	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
A short circuit was detected in one channel.	Please check the motor connection on the given output.

0x2388 | Short circuit (total DC link out current)

Diagnostic code	Class	Type	Standard reaction	Reset
0x2388 (9096_{dez})	Error	DC link connection overcurrent error	Closed loop ramp	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
An internal hardware error occurred.	Restart the device. If this error happens repeatedly, please contact your Beckhoff office.

0x2389 | [SG], [SL]: Mains short circuit

A short circuit was detected in the mains.

Diagnostic code	Class	Type	Standard reaction	Reset
0x2389 (9097_{dez})	Error	Error	Shorted coils brake	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
There is a problem with the hardware or the mains connection.	Check that the mains is connected properly.

0x2390 | [SG], [SL]: Continuous overcurrent. Phase SS.

The requested current in a mains phase permanently exceeds the rated current.

Diagnostic code	Class	Type	Standard reaction	Reset
0x2390 (9104_{dez})	Error	Error	Shorted coils brake	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
There is a problem with the hardware or the mains connection.	Check that the mains connection is correct.

0x2391 | [SG], [SL]: Short circuit SS

A short circuit was detected.

Diagnostic code	Class	Type	Standard reaction	Reset
0x2391 (9105_{dez})	Error	Error	Shorted coils brake	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
An internal hardware error occurred.	Restart the device. If this error happens repeatedly, please contact your Beckhoff office.

0x2392 | Continuous overcurrent (total DC link out current high frequency)

Diagnostic code	Class	Type	Standard reaction	Reset
0x2392 (9106_{dez})	Error	DC link connection overcurrent error	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The requested DC link current exceeds the error threshold.	The total power required by the connected devices in the system is too high.

0x2393 | Continuous overcurrent (total DC link out current high frequency). Reaction: Generative brake order

Diagnostic code	Class	Type	Standard reaction	Reset
0x2393 (9107_{dez})	Error	DC link connection overcurrent error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The requested DC link current exceeds the error threshold.	The total power required by the connected devices in the system is too high.

0x2394 | Peak overcurrent (total DC link out current high frequency)

Diagnostic code	Class	Type	Standard reaction	Reset
0x2394 (9108_{dez})	Error	DC link connection overcurrent error	Closed loop ramp	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
The requested DC link current exceeds the peak current.	Make sure that all axes in the system are not accelerated at the same time.

0x23A0 | [SG], [SL]: Continuous overcurrent. Output: UU

The requested current in one channel exceeds the warning threshold.

Diagnostic code	Class	Type	Standard reaction	Reset
0x23A0 (9120_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
The system may be in an undefined position. The drive may be mechanically blocked.	Check the system.

0x23A1 | [SG], [SL]: Continuous overcurrent (total DC link out current)

The requested DC link current exceeds the warning threshold.

Diagnostic code	Class	Type	Standard reaction	Reset
0x23A1 (9121_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
The requested DC link current exceeds the warning threshold.	The total power required by the connected devices in the system is too high.

0x23A2 | [SG], [SL]: Continuous overcurrent. Phase SS.

The requested current in a mains phase exceeds the warning threshold.

Diagnostic code	Class	Type	Standard reaction	Reset
0x23A2 (9122_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
There is a problem with the hardware or the mains connection.	Check that the mains is connected properly.

0x23A3 | [SG], [SL]: Continuous overcurrent (total DC link out current high frequency)

The requested DC link current exceeds the warning threshold.

Diagnostic code	Class	Type	Standard reaction	Reset
0x23A3 (9123_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
The requested DC link current exceeds the warning threshold.	The total power required by the connected devices in the system is too high.

0x3110 | Mains overvoltage

Mains voltage is too high.

Diagnostic code	Class	Type	Standard reaction	Reset
0x3110 (12560_{dez})	Error	Mains overvoltage error	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The actual mains voltage is too high.	Check the connected mains voltage.

0x3120 | Mains undervoltage

Mains power has been turned off.

Diagnostic code	Class	Type	Standard reaction	Reset
0x3120 (12576_{dez})	Error	Error	Closed loop ramp	A fatal error occurred. A device reboot is required.

0x3130 | [SG], [SL]: Mains phase failure

One phase has failed in the 3-phase supply.

Diagnostic code	Class	Type	Standard reaction	Reset
0x3130 (12592_{dez})	Error	Error	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The mains voltage supply is faulty.	Analyze the mains voltage supply.
The mains voltage supply is repeatedly exposed to interference.	Try to use a mains filter.
You have connected a single-phase mains supply but parameterized three phases.	Check and adjust the mains type parameterization. Switch the mains voltage off and on again.

0x3141 | [SG], [SL]: Mains frequency is too great

Mains frequency is greater than 65 Hz.

Diagnostic code	Class	Type	Standard reaction	Reset
0x3141 (12609_{dez})	undefined	Error	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The actual mains frequency is too great.	Check the connected mains voltage.

0x3142 | [SG], [SL]: Mains frequency is too small

Mains frequency is smaller than 45 Hz.

Diagnostic code	Class	Type	Standard reaction	Reset
0x3142 (12610_{dez})	undefined	Error	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The actual mains frequency is too small.	Check the connected mains voltage.

0x3180 | Mains voltage higher than brake resistor operating voltage

Diagnostic code	Class	Type	Standard reaction	Reset
0x3180 (12672_{dez})	Error	Mains voltage over chopper threshold error	Torque off	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Voltage peaks occur in the mains voltage.	Analyze the mains voltage supply.

0x3181 | [SG], [SL]: Mains phase failure. Reaction: Generative brake order

One phase has failed in the 3-phase supply.

Diagnostic code	Class	Type	Standard reaction	Reset
0x3181 (12673$_{dez}$)	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The mains voltage supply is faulty.	Analyze the mains voltage supply.
The mains voltage supply is repeatedly exposed to interference.	Try to use a mains filter.
You have connected a single-phase mains supply but parameterized three phases.	Check and adjust the mains type parameterization. Switch the mains voltage off and on again.

0x3182 | [SG], [SL]: Wrong mains type

The connected mains type (3Ph/AC, 1Ph/AC or DC) does not match with the parameterized value of mains type.

Diagnostic code	Class	Type	Standard reaction	Reset
0x3182 (12674$_{dez}$)	Error	Error	Torque off	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Wrong mains type parameterized.	Check the mains parameterization and adjust its value.
The power supply is not connected correctly.	Check and adjust the mains supply connection. Switch the mains voltage off and on again.

0x31A0 | [SG], [SL]: Mains overvoltage

The connected mains voltage exceeds the parameterized warning threshold.

Diagnostic code	Class	Type	Standard reaction	Reset
0x31A0 (12704$_{dez}$)	Warning	Mains out of range warning	No	Warning: No reset required.

Possible causes	Solutions
The actual mains voltage is too high.	Check the connected mains voltage.

0x31A1 | [SG], [SL]: Mains undervoltage

The connected mains voltage fell below the parameterized warning threshold.

Diagnostic code	Class	Type	Standard reaction	Reset
0x31A1 (12705$_{dez}$)	Warning	Mains out of range warning	No	Warning: No reset required.

Possible causes	Solutions
The actual mains voltage is too low.	Check the connected mains voltage.

0x31A2 | [SG], [SL]: Mains phase failure

One phase has failed in the 3-phase supply.

Diagnostic code	Class	Type	Standard reaction	Reset
0x31A2 (12706$_{dez}$)	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
The mains voltage supply is faulty.	Analyze the mains voltage supply.

0x31A3 | [SG], [SL]: Mains voltage has left the warning level

The connected mains voltage is in a valid range.

Diagnostic code	Class	Type	Standard reaction	Reset
0x31A3 (12707_{dez})	Info	Mains out of range warning is gone information	No	Information: No reset required.

0x3210 | DC link overvoltage

Diagnostic code	Class	Type	Standard reaction	Reset
0x3210 (12816_{dez})	Error	Overvoltage error	Open loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The connected motors generate too much electromotive force, causing the DC link voltage to rise.	You need to reduce the electromotive force. You also can use brake chopper or energy recovery systems to prevent this error.
The configured DC link max voltage might be too low.	Check the configured DC link max voltage.

0x3220 | DC link undervoltage

Diagnostic code	Class	Type	Standard reaction	Reset
0x3220 (12832_{dez})	Error	Undervoltage error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown error has caused the DC link generation to be deactivated.	Check the error history for pending errors.

0x3281 | DC link overvoltage with Torque off

Diagnostic code	Class	Type	Standard reaction	Reset
0x3281 (12929_{dez})	Error	Overvoltage with reaction torque off error	Torque off	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The connected motors generate too much electromotive force, causing the DC link voltage to rise.	You need to reduce the electromotive force. You also can use brake chopper or energy recovery systems to prevent this error.
The configured DC link max voltage might be too low.	Check the configured DC link max voltage.

0x3283 | [SG], [SL]: DC link charge timeout at state UU

There is a problem with charging the DC link.

Diagnostic code	Class	Type	Standard reaction	Reset
0x3283 (12931_{dez})	Error	Error	No	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An internal error occurred.	Restart the device. If this error happens repeatedly, please contact your Beckhoff office.

Possible causes	Solutions
There are too many devices connected to the DC link.	Reduce the number of devices.

0x3284 | [SG], [SL]: DC link recharge timeout at state UU

There is a problem with recharging the DC link.

Diagnostic code	Class	Type	Standard reaction	Reset
0x3284 (12932_{dez})	Error	Error	No	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An internal error occurred.	Restart the device. If this error happens repeatedly, please contact your Beckhoff office.
There are too many devices connected to the DC link.	Reduce the number of devices.

0x32A1 | [SG], [SL]: Brake resistor utilization reached

Diagnostic code	Class	Type	Standard reaction	Reset
0x32A1 (12961_{dez})	Warning	Warning	No	Warning: No reset required.

0x4210 | Excess temperature device: SS

Diagnostic code	Class	Type	Standard reaction	Reset
0x4210 (16912_{dez})	Error	Drive overtemperature shut down	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Your application has produced a thermic overload in the power supply module.	Analyze your system and check the ambient temperature, for example.

0x4280 | Excess temperature device: SS. Reaction: Generative brake order

Diagnostic code	Class	Type	Standard reaction	Reset
0x4280 (17024_{dez})	Error	Drive overtemperature shut down	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Your application has produced a thermic overload in the power supply module.	Analyze your system and check the ambient temperature, for example.

0x42A0 | [SG], [SL]: Excess temperature device: SS

The actual device temperature exceeds the parameterized warning threshold.

Diagnostic code	Class	Type	Standard reaction	Reset
0x42A0 (17056_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
Your application has produced a thermic overload in the power supply module.	Analyze your system and check the ambient temperature, for example.

0x5180 | 24 V supply overcurrent: SS

Diagnostic code	Class	Type	Standard reaction	Reset
0x5180 (20864_{dez})	Error	Control voltage error	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
There is a problem with an EtherCAT P device in your system.	Check all EtherCAT P devices.
There are too many EtherCAT P devices in your system.	Optimize the EtherCAT P system, for example use the EtherCAT P junction with refresh.

0x5183 | 24 V dcdc supply, first stage: SS

Diagnostic code	Class	Type	Standard reaction	Reset
0x5183 (20867_{dez})	Error	Control voltage error	Shorted coils brake	Execute Reset-Command (Fault reset).

Possible causes	Solutions
There is an internal problem.	Restart your device.

0x5187 | 24V dcdc supply, second stage: SS

Diagnostic code	Class	Type	Standard reaction	Reset
0x5187 (20871_{dez})	Error	Control voltage error	No	Execute Reset-Command (Fault reset).

Possible causes	Solutions
There is an internal problem.	Restart your device.

0x518A | 24 V supply out of range: SS

Diagnostic code	Class	Type	Standard reaction	Reset
0x518A (20874_{dez})	Error	Control voltage error	Shorted coils brake	Execute Reset-Command (Fault reset).

Possible causes	Solutions
There is an internal problem.	Restart your device.

0x51A0 | [SG], [SL]: 24 V supply overcurrent: SS

The requested current on the 24 V power supply permanently exceeds the rated current.

Diagnostic code	Class	Type	Standard reaction	Reset
0x51A0 (20896_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
There is a problem with an EtherCAT P device in your system.	Check all EtherCAT P devices.
There are too many EtherCAT P devices in your system.	Optimize the EtherCAT P system, for example use the EtherCAT P junction with refresh.

0x5560 | [SG], [SL]: Read data failed: SS

An error occurred while reading data from the EEPROM during initialization.

Diagnostic code	Class	Type	Standard reaction	Reset
0x5560 (21856$_{dez}$)	Error	Error	Axis is inoperable	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
An internal communication error occurred.	Restart the device. If this error happens repeatedly, please contact your Beckhoff office.

0x5561 | [SG], [SL]: Missing data: SS

An error occurred while reading data from the EEPROM during initialization.

Diagnostic code	Class	Type	Standard reaction	Reset
0x5561 (21857$_{dez}$)	Error	Error	Axis is inoperable	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
An internal communication error occurred.	Restart the device. If this error happens repeatedly, please contact your Beckhoff office.

0x556C | [SG], [SL]: Write data failed: SS

An error occurred while writing data to the EEPROM.

Diagnostic code	Class	Type	Standard reaction	Reset
0x556C (21868$_{dez}$)	Error	Error	Torque off	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An internal communication error occurred.	Restart the device. If this error happens repeatedly, please contact your Beckhoff office.

0x5570 | [SG], [SL]: Reset data failed: SS

An error occurred while resetting the EEPROM data.

Diagnostic code	Class	Type	Standard reaction	Reset
0x5570 (21872$_{dez}$)	Error	Error	Torque off	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An internal communication error occurred.	Restart the device. If this error happens repeatedly, please contact your Beckhoff office.

0x5590 | [SG], [SL]: SS EEPROM device address is incompatible with this firmware

Detected incompatible PCB for this firmware.

Diagnostic code	Class	Type	Standard reaction	Reset
0x5590 (21904$_{dez}$)	Error	Error	Torque off	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An internal communication error occurred.	Restart the device. If this error happens repeatedly, please contact your Beckhoff office.

0x5592 | [SG], [SL]: SS Firmware index is incompatible with this firmware

Detected incompatible PCB for this firmware.

Diagnostic code	Class	Type	Standard reaction	Reset
0x5592 (21906$_{dez}$)	Error	Error	Torque off	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An internal communication error occurred.	Restart the device. If this error happens repeatedly, please contact your Beckhoff office.

0x5593 | [SG], [SL]: SS Structure version is incompatible with this firmware

Detected incompatible structure version for this firmware.

Diagnostic code	Class	Type	Standard reaction	Reset
0x5593 (21907$_{dez}$)	Error	Error	Torque off	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An internal communication error occurred.	Restart the device. If this error happens repeatedly, please contact your Beckhoff office.

0x5595 | [SG], [SL]: SS Component type is incompatible with this firmware

Detected incompatible component type for this firmware.

Diagnostic code	Class	Type	Standard reaction	Reset
0x5595 (21909$_{dez}$)	Error	Error	Torque off	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An internal communication error occurred.	Restart the device. If this error happens repeatedly, please contact your Beckhoff office.

0x5596 | [SG], [SL]: Product is incompatible with this firmware

The firmware is not valid for this hardware.

Diagnostic code	Class	Type	Standard reaction	Reset
0x5596 (21910$_{dez}$)	Error	Error	Torque off	Execute Reset-Command (Fault reset).

Possible causes	Solutions
There is an internal problem.	Restart your device.

0x5598 | [SG], [SL]: BIC update failed: SS

The update of the BIC has failed.

Diagnostic code	Class	Type	Standard reaction	Reset
0x5598 (21912$_{dez}$)	Error	Error	Torque off	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An internal communication error occurred.	Restart the device. If this error happens repeatedly, please contact your Beckhoff office.

0x55D0 | [SG], [SL]: Restored error messages from persistent memory

The persistent memory contains an error log. The messages are restored during power on phase.

Diagnostic code	Class	Type	Standard reaction	Reset
0x55D0 (21968_{dez})	Info	Information	No	Information: No reset required.

0x6010 | [SG], [SL]: Software reset (watchdog)

A timeout has occurred.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6010 (24592_{dez})	Error	Error	Axis is inoperable	A fatal error occurred. A device reboot is required.

Possible causes	Solutions
Too many objects in the PDO mapping.	Check the number of objects in the PDO mapping.
An unknown hardware or software error has occurred.	Switch off the mains voltage and the 24 V supply. Switch them on again. If this error happens repeatedly, please contact your Beckhoff office.

0x6081 | [SG], [SL]: Watchdog exceeded (Id: UU)

A watchdog timeout has been exceeded.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6081 (24705_{dez})	Error	Error	Shorted coils brake	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The execution time of a task is too long.	Check the number of objects in the PDO mapping.
An unknown hardware or software error has occurred.	Switch off the mains voltage and the 24 V supply. Switch them on again. If this error happens repeatedly, please contact your Beckhoff office.

0x6310 | [SG], [SL]: Loss of parameters

Default values of parameters could not be loaded.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6310 (25360_{dez})	Error	Error	Axis is inoperable	A reset is not possible. The drive detected a fatal hard- or software error.

0x6320 | [SG], [SL]: Parameter error

A parameterization error has occurred.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6320 (25376_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
There is a problem with the parameterization.	Check your parameterization. Use the standard parameters and reset your parameters.

0x6321 | [SG], [SL]: Parameter error in object 0xXX/XX

The mentioned parameter contains a not accepted value.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6321 (25377$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Something is wrong with the parameter in this object.	Please check the parameter of the mentioned object.

0x6322 | [SG], [SL]: Parameter error in object 0xXX/XX, 0xXX/XX

The mentioned parameter contain not accepted values.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6322 (25378$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Something is wrong with the parameter in these objects.	Please check the parameter of the mentioned objects.

0x6323 | [SG], [SL]: Parameter error in object 0xXX/XX, 0xXX/XX, 0xXX/XX

The mentioned parameter contain not accepted values.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6323 (25379$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Something is wrong with the parameter in these objects.	Please check the parameter of the mentioned objects.

0x63B9 | [SG], [SL]: Configuration in object 0xXX/XX is not supported with this device

The configuration in mentioned parameter is not supported with this device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x63B9 (25529$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The configuration is not supported with that specific device type.	Please check the documentation and adjust the configuration.

0x7111 | [SG], [SL]: Brake chopper failure

Brake chopper failure.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7111 (28945$_{dez}$)	Error	Error	Torque off	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
Brake chopper is damaged.	Switch off the mains voltage and the 24 V supply. Switch them on again. Try again.

0x7112 | [SG], [SL]: Brake chopper overcurrent

Overcurrent in your connected brake resistor (internal or external).

Diagnostic code	Class	Type	Standard reaction	Reset
0x7112 (28946$_{dez}$)	Error	Error	Closed loop ramp	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
The connected brake resistor was placed under too much load. The brake resistor may be damaged.	Switch off the mains voltage and the 24 V supply. Check whether your brake resistor is damaged, if an external one is connected. Try to operate power supply module again. If this error happens repeatedly, please contact your Beckhoff office.

0x7180 | Brake resistor not found

No braking resistance was detected during the braking resistance test.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7180 (29056$_{dez}$)	Error	Brake resistor not found error	Torque off	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Internal or external brake resistor is faulty.	Switch off the mains voltage and the 24 V supply. Switch on them again. If this error happens repeatedly, please contact your Beckhoff office.
The connection bridge for the internal brake resistor is missing or an external brake resistor is not connected.	Plug in the connection bridge or connect an external brake resistor.

0x7182 | [SG], [SL]: Wrong xml file - do not use

Diagnostic code	Class	Type	Standard reaction	Reset
0x7182 (29058$_{dez}$)	Error	Error	Torque off	A fatal error occurred. A device reboot is required.

0x7183 | [SG], [SL]: Brake resistor overloaded

Your connected brake resistor (internal or external) was overloaded.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7183 (29059$_{dez}$)	Error	Brake resistor overloaded error	Torque off	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Too much energy was dissipated at the brake resistor during operation of the chopper. Incorrect parameterization of the brake resistor could be a reason.	Check the parameterization of the brake resistor. If necessary, connect a more powerful brake resistor.

0x7184 | [SG], [SL]: Charging error with brake resistor

Your connected brake resistor (internal or external) was just short overloaded during recharging.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7184 (29060$_{dez}$)	Error	Brake resistor overloaded error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Too much energy was dissipated at the brake resistor during operation of the chopper. Incorrect parameterization of the brake resistor could be a reason.	Check the parameterization of the brake resistor. If necessary, connect a more powerful brake resistor.

0x71A0 | [SG], [SL]: Brake resistor overloaded

The brake resistor load utilization exceeds the parameterized warning threshold.

Diagnostic code	Class	Type	Standard reaction	Reset
0x71A0 (29088_{dez})	Warning	Brake resistor overload warning	No	Warning: No reset required.

Possible causes	Solutions
Too much energy was dissipated at the brake resistor during operation of the chopper. Incorrect parameterization of the brake resistor could be a reason.	Check the parameterization of the brake resistor. If necessary, connect a more powerful brake resistor.

0x71A1 | [SG], [SL]: Brake resistor overload has left the warning level

The brake resistor load utilization has left the warning threshold.

Diagnostic code	Class	Type	Standard reaction	Reset
0x71A1 (29089_{dez})	Info	Brake resistor overload warning is gone information	No	Information: No reset required.

0x7580 | [SG], [SL]: I2C communication failure SS

A communication problem occurred on the I2C bus.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7580 (30080_{dez})	Error	Error	Torque off	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An internal communication error occurred.	Switch off the mains voltage and the 24 V supply. Switch them on again. If this error happens repeatedly, please contact your Beckhoff office.

0x7581 | [SG], [SL]: Data collector not running

A problem occurred while starting the data collector.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7581 (30081_{dez})	Error	Error	Torque off	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An internal communication error occurred.	Switch off the mains voltage and the 24 V supply. Switch them on again. If this error happens repeatedly, please contact your Beckhoff office.

0x7582 | [SG], [SL]: Data collector SS version is incompatible with this firmware

The data collector version is incompatible with the given firmware version.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7582 (30082_{dez})	Error	Error	Torque off	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An internal communication error occurred.	Perform a firmware download again. Switch the system on again. If this error happens repeatedly, please contact your Beckhoff office.

0x7584 | [SG], [SL]: Data collector communication failed: SS

A problem occurred in communication to the data collector.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7584 (30084_{dez})	Error	Error	Shorted coils brake	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An internal communication error occurred.	Switch off the mains voltage and the 24 V supply. Switch them on again. If this error happens repeatedly, please contact your Beckhoff office.

0x7585 | [SG], [SL]: Data collector update failed: SS

A problem occurred while updating the data collector.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7585 (30085_{dez})	Error	Error	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An internal communication error occurred.	Switch off the mains voltage and the 24 V supply. Switch them on again. If this error happens repeatedly, please contact your Beckhoff office.

0x75A0 | [SG], [SL]: Data collector communication failed: SS

A problem occurred with communication to the data collector.

Diagnostic code	Class	Type	Standard reaction	Reset
0x75A0 (30112_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
An internal communication error occurred.	Switch off the mains voltage and the 24 V supply. Switch them on again. If this error happens repeatedly, please contact your Beckhoff office.

0x87D0 | [SG], [SL]: PLL sync lost

A problem has occurred in the communication between the EtherCAT master and slave.

Diagnostic code	Class	Type	Standard reaction	Reset
0x87D0 (34768_{dez})	Info	Information	No	Information: No reset required.

Possible causes	Solutions
The slave has received no process data for over one EtherCAT cycle.	Check the realtime tasks of your EtherCAT master.

0xA025 | [SG], [SL]: TxPdo Mapping Error: Too many inputs mapped to index 0xXX

A problem has occurred with the mapping of TxPdo.

Diagnostic code	Class	Type	Standard reaction	Reset
0xA025 (40997_{dez})	Error	Error	No	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
Too many signals were mapped to this index.	Check the TxPdo Mapping.

0xFF1C | [SG], [SL]: Charge resistor overloaded with error reaction brake - do not use

Diagnostic code	Class	Type	Standard reaction	Reset
0xFF1C (65308_{dez})	Error	Error	Shorted coils brake	Execute Reset-Command (Fault reset).

0xFF1D | [SG], [SL]: Charge resistor overloaded with error reaction torque off

DC link charge resistor exceeds the permitted range of 90%.

Diagnostic code	Class	Type	Standard reaction	Reset
0xFF1D (65309_{dez})	Error	Error	Torque off	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The charging process for the DC link takes too long or is used too often.	Check the devices connected to the DC link. Make sure that the DC link is not loaded too early or too much.

0xFF1E | [SG], [SL]: Fan malfunction

A problem has occurred with the internal fan.

Diagnostic code	Class	Type	Standard reaction	Reset
0xFF1E (65310_{dez})	Error	Error	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The fan does not return a plausible feedback signal.	Switch off the mains voltage and the 24 V supply. Switch them on again. If this error happens repeatedly, please contact your Beckhoff office.

0xFF1F | [SG], [SL]: Fan malfunction. Reaction: Generative brake order

A problem has occurred with the internal fan.

Diagnostic code	Class	Type	Standard reaction	Reset
0xFF1F (65311_{dez})	Error	Error	Shorted coils brake	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The fan does not return a plausible feedback signal.	Switch off the mains voltage and the 24 V supply. Switch them on again. If this error happens repeatedly, please contact your Beckhoff office.

0xFFA0 | [SG], [SL]: Fan malfunction

A problem has occurred with the internal fan.

Diagnostic code	Class	Type	Standard reaction	Reset
0xFFA0 (65440_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
The fan does not return a plausible feedback signal.	Switch off the mains voltage and the 24 V supply. Switch them on again. If this error happens repeatedly, please contact your Beckhoff office.

0xFFC0 | [SG], [SL]: SS executed successfully

The requested command was executed successfully.

Diagnostic code	Class	Type	Standard reaction	Reset
0xFFC0 (65472_{dez})	Info	Information	No	Information: No reset required.

0xFFD0 | [SG], [SL]: Debug firmware, replace as soon as possible!

Debug firmware: Replace ASAP!

Diagnostic code	Class	Type	Standard reaction	Reset
0xFFD0 (65488_{dez})	Info	Information	No	Information: No reset required.

2.4 DiagMessages of module AxisMainAX1

0x0000 | [SG], [SL]: No Error

This Message is thrown always, if the Device enters an error-free state.

Diagnostic code	Class	Type	Standard reaction	Reset
0x0000 (0_{dez})	Info	Information	No	Information: No reset required.

Possible causes	Solutions
An Axis entered the error free state.	

0x2340 | [SG], [SL]: Short circuit (motor-side)

The drive hardware detected an over-current on the motor phases. The short circuit detection was triggered.

Diagnostic code	Class	Type	Standard reaction	Reset
0x2340 (9024_{dez})	Error	Overcurrent error	Torque off	A fatal error occurred. A device reboot is required.

Possible causes	Solutions
Short circuit in the motor cable.	Check the motor cable
Short circuit in the motor winding.	Check the motor winding with a high voltage test or check the winding resistance.

0x2380 | [SG], [SL]: Continuous over current (device output side) Phase U

The drive software detected an overcurrent on the motor phase U.

Diagnostic code	Class	Type	Standard reaction	Reset
0x2380 (9088_{dez})	Error	Overcurrent error	Torque off	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Short circuit in the motor cable.	Check the motor cable
Short circuit in the motor winding.	Check the motor winding with a high voltage test or check the winding resistance.

0x2381 | [SG], [SL]: Continuous over current (device output side) Phase V

The drive software detected an overcurrent on the motor phase V.

Diagnostic code	Class	Type	Standard reaction	Reset
0x2381 (9089_{dez})	Error	Overcurrent error	Torque off	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Short circuit in the motor cable.	Check the motor cable
Short circuit in the motor winding.	Check the motor winding with a high voltage test or check the winding resistance.

0x2382 | [SG], [SL]: Continuous over current (device output side) Phase W

The drive software detected an overcurrent on the motor phase W.

Diagnostic code	Class	Type	Standard reaction	Reset
0x2382 (9090_{dez})	Error	Overcurrent error	Torque off	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Short circuit in the motor cable.	Check the motor cable
Short circuit in the motor winding.	Check the motor winding with a high voltage test or check the winding resistance.

0x2383 | [SG], [SL]: Phase U current offset out of range

The measured current offset of Phase U is outside the accepted range.

Diagnostic code	Class	Type	Standard reaction	Reset
0x2383 (9091_{dez})	Error	Error	Torque off	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x2384 | [SG], [SL]: Phase V current offset out of range

The measured current offset of Phase V is outside the accepted range.

Diagnostic code	Class	Type	Standard reaction	Reset
0x2384 (9092_{dez})	Error	Error	Torque off	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x2385 | [SG], [SL]: Phase W current offset out of range

The measured current offset of Phase W is outside the accepted range.

Diagnostic code	Class	Type	Standard reaction	Reset
0x2385 (9093_{dez})	Error	Error	Torque off	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x2386 | [SG], [SL]: Motor brake current offset out of range

The measured current offset of the motor brake is outside the accepted range.

Diagnostic code	Class	Type	Standard reaction	Reset
0x2386 (9094_{dez})	Error	Error	Torque off	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.
The device might be influenced by an external magnetic field.	Check the environment of this device for magnetic components.

0x2387 | Continuous over current (device output side)

The drive software detected an overcurrent on the motor side.

Diagnostic code	Class	Type	Standard reaction	Reset
0x2387 (9095_{dez})	Error	Overcurrent error	Torque off	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Short circuit in the motor cable.	Check the motor cable
Short circuit in the motor winding.	Check the motor winding with a high voltage test or check the winding resistance.

0x3180 | [SG], [SL]: Phase failure motor

The drive software detected a phase failure at the motor side. Please check wiring.

Diagnostic code	Class	Type	Standard reaction	Reset
0x3180 (12672_{dez})	Error	Motor connection error	Shorted coils brake	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A power wire is not connected properly to the hybrid motor connector.	Check the power connections to the hybrid motor connector.
A power wire in the motor cable is broken.	Check the power wires in the motor cable.
The hybrid motor connector seems not to be plugged in properly.	Check if the hybrid motor connector is plugged in properly.

0x3220 | [SG], [SL]: DC link under-voltage

An under-voltage occurred in the DC link circuit.

Diagnostic code	Class	Type	Standard reaction	Reset
0x3220 (12832_{dez})	Error	Undervoltage error	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The DC link voltage level was under the configured minimum.	Check the minimum DC link voltage parameter. (Object 0x2C02/1)

0x3280 | [SG], [SL]: DC link is not ready

Diagnostic code	Class	Type	Standard reaction	Reset
0x3280 (12928_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The Axis got an enable command before DC link was ready.	Check your power supply device.

0x4310 | [SG], [SL]: Drive overtemperature shut down

The drive temperature has reached a critical value.

Diagnostic code	Class	Type	Standard reaction	Reset
0x4310 (17168_{dez})	Error	Drive overtemperature shut down	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The ambient temperature is too high	Cool down the ambient temperature
Internal brake power and power loss of axis are too high	Lower the brake power and power loss of axis
The fan is defective	Check the fan
The cooling slots or the measuring sensors are polluted	Clean the cooling slots and the measuring sensors

0x5180 | [SG], [SL]: Output stage STO active.

The Axis is unable to operate, because the Amplifier is locked from the safety module. (Safe Torque Off / STO)

Diagnostic code	Class	Type	Standard reaction	Reset
0x5180 (20864_{dez})	Error	Safety STO error	Torque off	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The amplifier is locked by the safety module.	Check the status of the safety module.

0x5184 | [SG], [SL]: Supply DC link circuit is not ready

Diagnostic code	Class	Type	Standard reaction	Reset
0x5184 (20868_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The Power supply device is not ready.	Please Check the Messages and the Status of the Supply Device.

0x5187 | [SG], [SL]: Power supply communication is not established

Diagnostic code	Class	Type	Standard reaction	Reset
0x5187 (20871_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The Power supply status is not alive.	Please Check if the Power supply controlword of this Axis Device is linked to the Power Supply Device and the Device is in EtherCAT OP.
The Power supply SDO communications are not finished.	Please Check if the Power supply communication parameters and status of DeviceMain.

0x5441 | [SG], [SL]: Positive limit switch active

Positive limit switch reached

Diagnostic code	Class	Type	Standard reaction	Reset
0x5441 (21569_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The axis has been moved to the positive limit switch.	Please move the axis away from the positive limit switch.

0x5442 | [SG], [SL]: Negative limit switch active

Negative limit switch reached

Diagnostic code	Class	Type	Standard reaction	Reset
0x5442 (21570_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The axis has been moved to the negative limit switch.	Please move the axis away from the negative limit switch.

0x5443 | [SG], [SL]: Loss of the hardware enable

The configured hardware enable input has been deactivated by an external event, even though the device was under control.

Diagnostic code	Class	Type	Standard reaction	Reset
0x5443 (21571_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Problems with the digital inputs	Check the digital inputs

0x5444 | [SG], [SL]: Loss of the hardware enable (Reaction TorqueOff)

The configured hardware enable input has been deactivated by an external event, even though the device was under control.

Diagnostic code	Class	Type	Standard reaction	Reset
0x5444 (21572_{dez})	Error	Error	Torque off	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Problems with the digital inputs	Check the digital inputs

0x5445 | [SG], [SL]: Fast stop switch active

Fast stop switch reached

Diagnostic code	Class	Type	Standard reaction	Reset
0x5445 (21573_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The fast stop switch has been activated.	Please move the axis away from the fast stop switch.

0x54B1 | [SG], [SL]: Positive limit switch active

Positive limit switch reached

Diagnostic code	Class	Type	Standard reaction	Reset
0x54B1 (21681_{dez})	Warning	Positive limit switch warning	No	Warning: No reset required.

Possible causes	Solutions
The axis has been moved to the positive limit switch.	Please move the axis away from the positive limit switch.

0x54B2 | [SG], [SL]: Negative limit switch active

Negative limit switch reached

Diagnostic code	Class	Type	Standard reaction	Reset
0x54B2 (21682_{dez})	Warning	Negative limit switch warning	No	Warning: No reset required.

Possible causes	Solutions
The axis has been moved to the negative limit switch.	Please move the axis away from the negative limit switch.

0x54B3 | [SG], [SL]: Fast stop switch active

Fast stop switch reached

Diagnostic code	Class	Type	Standard reaction	Reset
0x54B3 (21683_{dez})	Warning	Fast stop switch active warning	No	Warning: No reset required.

Possible causes	Solutions
The fast stop switch has been activated.	Please move the axis away from the fast stop switch.

0x54B4 | [SG], [SL]: Positive limit switch inactive

The positive limit switch has left the warning state.

Diagnostic code	Class	Type	Standard reaction	Reset
0x54B4 (21684_{dez})	Info	Positive limit switch warning is gone information	No	Information: No reset required.

0x54B5 | [SG], [SL]: Negative limit switch inactive

The negative limit switch has left the warning state.

Diagnostic code	Class	Type	Standard reaction	Reset
0x54B5 (21685_{dez})	Info	Negative limit switch warning is gone information	No	Information: No reset required.

0x5595 | [SG], [SL]: Modulo remainder will not be stored.

Diagnostic code	Class	Type	Standard reaction	Reset
0x5595 (21909_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
Persistent memory is not present.	

0x589C | Persistent Data Error

Full text of the message displayed in the TwinCAT System Manager:
(0x589C) [SG], [SL]: Persistent data seems to be corrupted. (0x%x)
The content of the persistent data memory seems to be corrupted.

Diagnostic code	Class	Type	Standard reaction	Reset
0x589C (22684_{dez})	Error	Error	Axis is inoperable	Execute Extended Reset-Command (Fault reset with 'Unlock extended fault reset' Parameter).

Possible causes	Solutions
There is an internal hardware error.	Send the device to the Beckhoff branch office that is responsible for you.

0x589E | [SG], [SL]: Persistent data memory error. Primary position offset.

Diagnostic code	Class	Type	Standard reaction	Reset
0x589E (22686_{dez})	Error	Error	Axis is inoperable	Execute Extended Reset-Command (Fault reset with 'Unlock extended fault reset' Parameter).

Possible causes	Solutions
There is an internal hardware error.	Send the device to the Beckhoff branch office that is responsible for you.

0x589F | [SG], [SL]: Persistent data memory error. Secondary position offset.

Diagnostic code	Class	Type	Standard reaction	Reset
0x589F (22687_{dez})	Error	Error	Axis is inoperable	Execute Extended Reset-Command (Fault reset with 'Unlock extended fault reset' Parameter).

Possible causes	Solutions
There is an internal hardware error.	Send the device to the Beckhoff branch office that is responsible for you.

0x58A0 | [SG], [SL]: Persistent data memory error. Modulo remainder.

Diagnostic code	Class	Type	Standard reaction	Reset
0x58A0 (22688_{dez})	Error	Error	Axis is inoperable	Execute Extended Reset-Command (Fault reset with 'Unlock extended fault reset' Parameter).

Possible causes	Solutions
There is an internal hardware error.	Send the device to the Beckhoff branch office that is responsible for you.

0x6183 | [SG], [SL]: Internal Watchdog Error

Diagnostic code	Class	Type	Standard reaction	Reset
0x6183 (24963_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Too many objects in the PDO-mapping.	Check the number of objects in the PDO-mapping.
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x638A | [SG], [SL]: The Axis seems not to be parameterized.

Diagnostic code	Class	Type	Standard reaction	Reset
0x638A (25482_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The Object 'AxisMain parameters/Configured drive type' was not set.	Write your drive type into 'AxisMain parameters/ Configured drive type'.

0x6390 | [SG], [SL]: Factor Group Parameters: Feed constant illegal feed

The actual combination of the factor group Parameters is not allowed for this Device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6390 (25488_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The feed constant - feed contains an illegal value (Object 0x6092/1 ChA or 0x6892/1 ChB).	Please use a 2^x value (x from 16 to 28) for rotary encoders and a 10^x value (x from 0 to 9) for linear encoders.

0x6391 | [SG], [SL]: Factor Group Parameters: Feed constant illegal shaft revolutions

The actual combination of the factor group Parameters is not allowed for this Device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6391 (25489_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The feed constant - shaft revolutions contains an illegal value (Object 0x6092/2 ChA or 0x6892/2 ChB).	Please set value to '1'.

0x6392 | [SG], [SL]: Factor Group Parameters: Gear ratio illegal Motor shaft revolutions

The actual combination of the factor group Parameters is not allowed for this Device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6392 (25490_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The gear ratio - motor shaft revolutions contains an illegal value (Object 0x6091/1 ChA or 0x6891/1 ChB).	You might add the default value here.

0x6393 | [SG], [SL]: Factor Group Parameters: Gear ratio illegal Driving shaft revolutions

The actual combination of the factor group Parameters is not allowed for this Device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6393 (25491_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The gear ratio - driving shaft revolutions contains an illegal value (Object 0x6091/2 ChA or 0x6891/2 ChB).	You might add the default value here.

0x6394 | [SG], [SL]: Factor Group Parameters: Position encoder resolution illegal encoder increments

The actual combination of the factor group Parameters is not allowed for this Device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6394 (25492_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The position encoder resolution - encoder increments contains an illegal value (Object 0x608F/1 ChA or 0x688F/1 ChB).	Please compare it to your encoder values.

0x6395 | [SG], [SL]: Factor Group Parameters: Position encoder resolution illegal motor revolutions

The actual combination of the factor group Parameters is not allowed for this Device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6395 (25493_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The position encoder resolution - motor revolutions contains an illegal value (Object 0x608F/2 ChA or 0x688F/2 ChB).	Please compare it to your encoder values.

0x6396 | [SG], [SL]: additional Factor Group Parameters: Feed constant illegal feed

The actual combination of the factor group Parameters is not allowed for this Device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6396 (25494_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The additional feed constant - feed contains an illegal value (Object 0x60E9/1 ChA or 0x68E9/1 ChB).	Please use a 2^x value (x from 16 to 28) for rotary encoders and a 10^x value (x from 0 to 9) for linear encoders.

0x6397 | [SG], [SL]: additional Factor Group Parameters: Feed constant illegal shaft revolutions

The actual combination of the factor group Parameters is not allowed for this Device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6397 (25495_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The additional feed constant - shaft revolutions contains an illegal value (Object 0x60EE/1 ChA or 0x68EE/1 ChB).	Please set value to '1'.

0x6398 | [SG], [SL]: additional Factor Group Parameters: Gear ratio illegal Motor shaft revolutions

The actual combination of the factor group Parameters is not allowed for this Device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6398 (25496_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The additional gear ratio - motor shaft revolutions contains an illegal value (Object 0x60E8/1 ChA or 0x68E8/1 ChB).	You might add the default value here.

0x6399 | [SG], [SL]: additional Factor Group Parameters: Gear ratio illegal Driving shaft revolutions

The actual combination of the factor group Parameters is not allowed for this Device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6399 (25497_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The additional gear ratio - driving shaft revolutions contains an illegal value (Object 0x60ED/1 ChA or 0x68ED/1 ChB).	You might add the default value here.

0x639A | [SG], [SL]: additional Factor Group Parameters: Position encoder resolution illegal encoder increments

The actual combination of the factor group Parameters is not allowed for this Device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x639A (25498_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The additional position encoder resolution - encoder increments contains an illegal value (Object 0x60E6/1 ChA or 0x68E6/1 ChB).	Please compare it to your encoder values.

0x639B | [SG], [SL]: additional Factor Group Parameters: Position encoder resolution illegal motor revolutions

The actual combination of the factor group Parameters is not allowed for this Device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x639B (25499_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The additional position encoder resolution - motor revolutions contains an illegal value (Object 0x60EB/ 1 ChA or 0x68EB/1 ChB).	Please compare it to your encoder values.

0x639C | [SG], [SL]: Velocity factor illegal. A possible Value would be UU/UU.

The actual combination of the factor group Parameters is not allowed for this Device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x639C (25500_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The velocity factor (Object 0x6096 ChA or 0x6896 ChB) does not adjust the velocity scaling to 0.1 mRPM in case of rotary Motors and 0.1 um/s in case of linear encoder.	Please change your setting to the suggested value.

0x639D | [SG], [SL]: Acceleration factor illegal. A possible Value would be UU/UU.

The actual combination of the factor group Parameters is not allowed for this Device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x639D (25501_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The acceleration factor (Object 0x6097 ChA or 0x6897 ChB) does not adjust the velocity scaling to 1 degree/s^2 in case of rotary Motors and 1 um/s^2 in case of linear encoder.	Please change your setting to the suggested value.

0x639E | [SG], [SL]: Scaling index object 0xXX does not fit the Factor group parameters for the first Encoder

The actual combination of the factor group Parameters is not allowed for this Device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x639E (25502$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The mentioned scaling index object doesn't represent the factor group settings of the first encoder.	Please compare the selected scaling to your factor group settings.

0x639F | [SG], [SL]: Scaling index object 0xXX does not fit the Factor group parameters for the second Encoder

The actual combination of the factor group Parameters is not allowed for this Device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x639F (25503$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The mentioned scaling index object doesn't represent the factor group settings of the second encoder.	Please compare the selected scaling to your additional factor group settings.

0x63A0 | [SG], [SL]: Motor or Primary Feedback changed

Diagnostic code	Class	Type	Standard reaction	Reset
0x63A0 (25504$_{dez}$)	Error	Error	Axis is inoperable	Execute Extended Reset-Command (Fault reset with 'Unlock extended fault reset' Parameter).

0x63A1 | [SG], [SL]: Secondary Feedback changed

Diagnostic code	Class	Type	Standard reaction	Reset
0x63A1 (25505$_{dez}$)	Error	Error	Axis is inoperable	Execute Extended Reset-Command (Fault reset with 'Unlock extended fault reset' Parameter).

0x63A2 | [SG], [SL]: Offset position actual value: No position offset existing in source 'encoder memory'

There is no primary position offset stored, for the selected source 'encoder memory'.

Diagnostic code	Class	Type	Standard reaction	Reset
0x63A2 (25506$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A position offset should be used in the position control loop, but no position offset has been saved.	Calibrate the axis and save the new position offset.

0x63A3 | [SG], [SL]: Offset additional position actual value: No position offset existing in source 'encoder memory'

There is no secondary position offset stored, for the selected source 'encoder memory'.

Diagnostic code	Class	Type	Standard reaction	Reset
0x63A3 (25507$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A position offset should be used in the position control loop, but no position offset has been saved.	Calibrate the axis and save the new position offset.

0x63A4 | [SG], [SL]: Offset position actual value: No position offset existing in source 'drive memory'

There is no primary position offset stored, for the selected source 'drive memory'.

Diagnostic code	Class	Type	Standard reaction	Reset
0x63A4 (25508_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A position offset should be used in the position control loop, but no position offset has been saved.	Calibrate the axis and save the new position offset.

0x63A5 | [SG], [SL]: Offset additional position actual value: No position offset existing in source 'drive memory'

There is no secondary position offset stored, for the selected source 'drive memory'.

Diagnostic code	Class	Type	Standard reaction	Reset
0x63A5 (25509_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A position offset should be used in the position control loop, but no position offset has been saved.	Calibrate the axis and save the new position offset.

0x63A6 | [SG], [SL]: Jerk factor illegal. A possible Value would be UU/UU.

The actual combination of the factor group Parameters is not allowed for this Device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x63A6 (25510_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The jerk factor (Object 0x60A2 ChA or 0x68A2 ChB) does not adjust the velocity scaling to 100 degree/s^2 in case of rotary Motors and 100 um/s^2 in case of linear encoder.	Please change your setting to the suggested value.

0x63A7 | [SG], [SL]: The range UU of the Position range limit is below the minimum accepted value of UU.

The range of the Position range limit (Object 0x6096 ChA or 0x6896 ChB) is below the minimum accepted value. The Range is calculated 'max limit' - 'min limit' + 1 and has to be positive.

Diagnostic code	Class	Type	Standard reaction	Reset
0x63A7 (25511_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The range of the Position range limit (Object 0x6096 ChA or 0x6896 ChB) is below the minimum accepted value. The Range is calculated 'max limit' - 'min limit' + 1 and has to be positive.	Please check the min and max value of the position range limit.

0x63A8 | [SG], [SL]: Position range limit Inc with remainder is not supported for primary feedback.

The position range limit is scaled internally to encoder increments. This calculation result contains a remainder, which is not supported for the primary feedback.

Diagnostic code	Class	Type	Standard reaction	Reset
0x63A8 (25512_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The position range limit is scaled internally to encoder increments. This calculation result contains a remainder, which is not supported for the primary feedback.	Please check the position range limit and the factor group parameters of this feedback.

0x63A9 | [SG], [SL]: Position range limit Inc with remainder is not supported for secondary feedback.

The position range limit is scaled internally to encoder increments. This calculation result contains a remainder, which is not supported for the secondary feedback.

Diagnostic code	Class	Type	Standard reaction	Reset
0x63A9 (25513_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The position range limit is scaled internally to encoder increments. This calculation result contains a remainder, which is not supported for the secondary feedback.	Please check the position range limit and the factor group parameters of this feedback.

0x63AA | [SG], [SL]: Object 0xXX/XX changed in EtherCAT SafeOP or OP.

This error message was created, because this change during Runtime is potentially dangerous, if you don't know what you do.

Diagnostic code	Class	Type	Standard reaction	Reset
0x63AA (25514_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The value of the position range limit or a Factor group object was changed in EtherCAT SafeOP or OP.	Execute fault reset command.

0x63AB | [SG], [SL]: Offset position actual value: Found an internal encoder position offset. No other offset can be selected.

In the electronic data sheet of the motor is an internal encoder offset stored. This offset prohibits using any other offset.

Diagnostic code	Class	Type	Standard reaction	Reset
0x63AB (25515_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
In the electronic data sheet of the motor is an internal encoder offset stored. This offset prohibits using any other offset.	Disable the selection of the position offset source.

0x63AC | [SG], [SL]: Offset additional position actual value: Found an internal encoder position offset. No other offset can be selected.

In the electronic data sheet of the motor is an internal encoder offset stored. This offset prohibits using any other offset.

Diagnostic code	Class	Type	Standard reaction	Reset
0x63AC (25516_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
In the electronic data sheet of the motor is an internal encoder offset stored. This offset prohibits using any other offset.	Disable the selection of the position offset source.

0x63AE | [SG], [SL]: Modulo calculation primary feedback: No saved data could be loaded

Modulo calculation primary feedback: No saved data could be loaded

Diagnostic code	Class	Type	Standard reaction	Reset
0x63AE (25518_{dez})	Error	Error	Axis is inoperable	Execute Extended Reset-Command (Fault reset with 'Unlock extended fault reset' Parameter).

Possible causes	Solutions
Modulo function might be enabled for the first time.	Execute the extended fault reset command.
Drive device service replacement.	Execute the extended fault reset command.

0x63AF | [SG], [SL]: Modulo calculation primary feedback: No saved data could be loaded. Remainder Changed.

Modulo calculation primary feedback: No saved data could be loaded. Remainder Changed.

Diagnostic code	Class	Type	Standard reaction	Reset
0x63AF (25519_{dez})	Error	Error	Axis is inoperable	Execute Extended Reset-Command (Fault reset with 'Unlock extended fault reset' Parameter).

Possible causes	Solutions
Modulo function might be enabled for different parameters before.	Execute the extended fault reset command.
Drive device service replacement.	Execute the extended fault reset command.

0x63B7 | [SG], [SL]: Modulo calculation primary feedback: The absolute range of encoder is too small or incompatible

Modulo calculation primary feedback: The absolute range of encoder is too small.

Diagnostic code	Class	Type	Standard reaction	Reset
0x63B7 (25527_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The modulo calculation with data storage can only be used if a multi-turn feedback is connected.	Connect and use a multi-turn feedback.
The modulo calculation with data storage can only be used if a rotary feedback is connected.	Connect and use a rotary feedback and motor.

Possible causes	Solutions
The fieldbus position range (object 0x607B PositionRangeLimit) converted to encoder increments via the feed constant (0x6092) and gear ratio (0x6091) is wider than the encoder's full mechanical (multi-turn × single-turn) range. The encoder cannot disambiguate the position across one full PositionRangeLimit, so modulo persistence cannot be applied.	Reduce the fieldbus PositionRangeLimit, or adjust the feed constant or gear ratio so the resulting position range in encoder increments is not larger than the encoder's full mechanical range.
The mounted encoder's multi-turn range is too small for the application's fieldbus position range.	Use an encoder with a larger multi-turn range, so that one full mechanical encoder rotation spans at least one fieldbus PositionRangeLimit.

0x63B9 | [SG], [SL]: Configuration in object 0xXX/XX is not supported with this device

The configuration in mentioned parameter is not supported with this device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x63B9 (25529_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The configuration is not supported with that specific device type.	Please check the documentation and adjust the configuration.

0x63BA | [SG], [SL]: Configuration in object 0xXX/XX and in object 0xXX/XX is not supported with this device

The configuration in mentioned parameters is not supported with this device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x63BA (25530_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The configuration is not supported with that specific device type.	Please check the documentation and adjust the configuration.

0x7180 | [SG], [SL]: Motor brake: Current monitoring error.

The motor brake current monitoring detected an insufficient current.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7180 (29056_{dez})	Error	Motor Brake connection error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
You have configured a motor brake and the motor brake current fell below the motor brake current monitoring level.	Check your motor brake connection (wires and connectors). Check the parameter 'motor brake current monitoring level' Object 0x3000/5 (Ch A) or Object 0x3400/5 (Ch B).

0x7181 | [SG], [SL]: Motor brake: Voltage monitoring error.

The motor brake voltage monitoring detected an insufficient voltage.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7181 (29057$_{dez}$)	Error	Motor Brake connection error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
You have configured a motor brake and the motor brake voltage fell below the permitted voltage level.	Check your motor brake connection (wires and connectors).

0x7182 | [SG], [SL]: Internal voltage monitoring error.

The internal voltage monitoring detected an insufficient voltage.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7182 (29058$_{dez}$)	Error	Undervoltage error	Torque off	A fatal error occurred. A device reboot is required.

0x7380 | [SG], [SL]: Current sensor motor phase U

Diagnostic code	Class	Type	Standard reaction	Reset
0x7380 (29568$_{dez}$)	Error	Error	Open loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x7381 | [SG], [SL]: Current sensor motor phase V

Diagnostic code	Class	Type	Standard reaction	Reset
0x7381 (29569$_{dez}$)	Error	Error	Open loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x7382 | [SG], [SL]: Current sensor motor phase W

Diagnostic code	Class	Type	Standard reaction	Reset
0x7382 (29570$_{dez}$)	Error	Error	Open loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x7398 | [SG], [SL]: Physical position sensor required

Diagnostic code	Class	Type	Standard reaction	Reset
0x7398 (29592$_{dez}$)	Error	Error	Open loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Physical position sensor is required for selected motor control mode but no suitable sensor is configured.	Check position sensor and motor control mode configuration.

0x7399 | [SG], [SL]: Simulation feedback module required

Diagnostic code	Class	Type	Standard reaction	Reset
0x7399 (29593_{dez})	Error	Error	Open loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Simulation feedback module required for selected motor control mode.	Check feedback slot and motor control mode configuration.

0x8182 | [SG], [SL]: EtherCAT Statemachine shutdown with enabled Axis

The EtherCAT Statemachine received a shutdown command, while the Axis was enabled.

Diagnostic code	Class	Type	Standard reaction	Reset
0x8182 (33154_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The EtherCAT Statemachine received a shutdown command, while the Axis was enabled.	Please disable your Axes before Restart or Shutdown your EtherCAT Master.

0x8183 | [SG], [SL]: Controlword output cycle counter monitoring

The output cycle counter of the controlword didn't increment for at least two cycles and the monitoring function is activated.

Diagnostic code	Class	Type	Standard reaction	Reset
0x8183 (33155_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The Output cycle counter monitoring is enabled and detected an error.	Check if the output cycle counter function is enabled in your NC. Check your EtherCAT realtime status.

0x8184 | [SG], [SL]: Dynoutput cycle counter monitoring

The dynoutput cycle counter of the controlword didn't increment for at least two cycles and the monitoring function is activated.

Diagnostic code	Class	Type	Standard reaction	Reset
0x8184 (33156_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The Output cycle counter monitoring is enabled and detected an error.	Check if the output cycle counter function is enabled in your NC. Check your EtherCAT realtime status.

0x8185 | [SG], [SL]: Axis needs an extended fault reset command

The Axis received a fault reset command but needs an extended fault reset command

Diagnostic code	Class	Type	Standard reaction	Reset
0x8185 (33157_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The Axis received a fault reset command but needs an extended fault reset command	To leave the fault state try an extended fault reset command

0x8187 | [SG], [SL]: PWM carrier signal PLL not locked to EtherCAT DC SYNC0

Diagnostic code	Class	Type	Standard reaction	Reset
0x8187 (33159_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x8190 | [SG], [SL]: Axis fault reset command is not possible - internal hardware error

The Axis received a fault reset command but a reset is not possible because an internal hardware error has occurred.

Diagnostic code	Class	Type	Standard reaction	Reset
0x8190 (33168_{dez})	Error	Error	Closed loop ramp	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
There is an internal hardware error.	Disconnect the servo drive from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call our support.

0x8191 | [SG], [SL]: Axis fault reset command is not possible because at least one of the present errors cannot be reset.

The Axis received a fault reset command but a reset is not possible because at least one of the present errors cannot be reset.

Diagnostic code	Class	Type	Standard reaction	Reset
0x8191 (33169_{dez})	Error	Error	Closed loop ramp	A fatal error occurred. A device reboot is required.

Possible causes	Solutions
This diagnostic message is just a hint that one of the present errors cannot be reset.	Rectify the present error.

0x8690 | [SG], [SL]: Autotuning command: Out of position range

Permissible movement exceeded.

Diagnostic code	Class	Type	Standard reaction	Reset
0x8690 (34448_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The system is unstable.	May adjust the control loop parameters manually until the system behaves stable
The "Base velocity amplitude" is too high for the permissible movement.	May adjust "Base velocity amplitude" or the permissible movements.

0x8691 | [SG], [SL]: Advanced Tuning command: Excitation signal amplitude to high

The current controller limitation is active during the excitation signal.
So the excitation signal is not fully applied to the mech. system.
This means that the measured frequency response is influenced by the current controller limitation and so does not exactly represent the mechanical system behaviour.

Diagnostic code	Class	Type	Standard reaction	Reset
0x8691 (34449$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The internal current controller output limitation is active	Either, the excitation signal amplitude has to be reduced (additive excitation amplitude), or the drive has to be operated with a higher DC-link voltage

0x8A80 | [SG], [SL]: Illegal Modes Of Operation

The modes of operation was set to an illegal value.

Diagnostic code	Class	Type	Standard reaction	Reset
0x8A80 (35456$_{dez}$)	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The modes of operation was set to an illegal value.	Please check the value of Object 0x6060 (Ch A) or Object 0x6860 (Ch B).

0x8A81 | [SG], [SL]: Illegal Modes Of Operation change

The modes of operation was changed in an illegal transition while the axis was enabled.

Diagnostic code	Class	Type	Standard reaction	Reset
0x8A81 (35457$_{dez}$)	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The modes of operation was changed in an illegal transition while the axis was enabled.	Please check the write operations to Object 0x6060 (Ch A) or Object 0x6860 (Ch B).

0x8A82 | [SG], [SL]: Error reaction "NC Handling" had a timeout

With NC error handling activated (Fault reaction option code), the Drive was not stopped by the NC within the parametrized time period (Error reaction delay time).

Diagnostic code	Class	Type	Standard reaction	Reset
0x8A82 (35458$_{dez}$)	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The selected time period is too short.	Increase the time period if your application allows this.
The movement is too complex for the parametrized time period.	Program a movement that is suitable for the time period.
The NC doesn't support this kind of error handling.	Ask support on which version the feature is supported.

0xA017 | Pdo Mapping Error: Object has to be mapped always.

Full text of the message displayed in the TwinCAT System Manager:
(0xA017) [SG], [SL]: Pdo Mapping Error: Object 0x%x/%x has to be mapped always.
The Object has to be mapped always.

Diagnostic code	Class	Type	Standard reaction	Reset
0xA017 (40983$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An object, which must be in the mapping is not mapped.	Please add a mapping to the mentioned object.

0xFF01 | [SG], [SL]: Init Timeout

Diagnostic code	Class	Type	Standard reaction	Reset
0xFF01 (65281_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0xFF07 | [SG], [SL]: Error reaction forced: Torque Off

The error reaction "torque off" has been triggered and executed with the Object 0x3004 (Ch A) or Object 0x3404 (Ch B).

Diagnostic code	Class	Type	Standard reaction	Reset
0xFF07 (65287_{dez})	Error	Error	Torque off	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Standard reactions to errors can be tested with the Object 0x3004 (Ch A) or Object 0x3404 (Ch B). The resulting diagnostic message is exclusively a reminder that there is actually no error.	This diagnostic message requires no remedial action.

0xFF08 | [SG], [SL]: Error reaction forced: Shorted Coils Brake

The error reaction "Shorted coils brake" has been triggered and executed with the Object 0x3004 (Ch A) or Object 0x3404 (Ch B).

Diagnostic code	Class	Type	Standard reaction	Reset
0xFF08 (65288_{dez})	Error	Error	Shorted coils brake	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Standard reactions to errors can be tested with the Object 0x3004 (Ch A) or Object 0x3404 (Ch B). The resulting diagnostic message is exclusively a reminder that there is actually no error.	This diagnostic message requires no remedial action.

0xFF09 | [SG], [SL]: Error reaction forced: Open Loop Ramp

The error reaction "Open loop ramp" has been triggered and executed with the Object 0x3004 (Ch A) or Object 0x3404 (Ch B).

Diagnostic code	Class	Type	Standard reaction	Reset
0xFF09 (65289_{dez})	Error	Error	Open loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Standard reactions to errors can be tested with the Object 0x3004 (Ch A) or Object 0x3404 (Ch B). The resulting diagnostic message is exclusively a reminder that there is actually no error.	This diagnostic message requires no remedial action.

0xFF0A | [SG], [SL]: Error reaction forced: Closed Loop Ramp

The error reaction "Closed loop ramp" has been triggered and executed with the Object 0x3004 (Ch A) or Object 0x3404 (Ch B).

Diagnostic code	Class	Type	Standard reaction	Reset
0xFF0A (65290_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Standard reactions to errors can be tested with the Object 0x3004 (Ch A) or Object 0x3404 (Ch B). The resulting diagnostic message is exclusively a reminder that there is actually no error.	This diagnostic message requires no remedial action.

0xFF0B | [SG], [SL]: Error reaction forced: NC handling

The error reaction "NC-Handling" has been triggered and executed with the Object 0x3004 (Ch A) or Object 0x3404 (Ch B).

Diagnostic code	Class	Type	Standard reaction	Reset
0xFF0B (65291_{dez})	Error	Error	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Standard reactions to errors can be tested with the Object 0x3004 (Ch A) or Object 0x3404 (Ch B). The resulting diagnostic message is exclusively a reminder that there is actually no error.	This diagnostic message requires no remedial action.

0xFF0C | [SG], [SL]: Error reaction TorqueOff with emergency brake

The Axis performed a torque off Errorreaction with an emergency brake.

Diagnostic code	Class	Type	Standard reaction	Reset
0xFF0C (65292_{dez})	Info	TorqueOff with emergency brake	No	Information: No reset required.

0xFF0D | [SG], [SL]: Propagated error received, react with Torque Off.

Propagated error received, react with Torque Off

Diagnostic code	Class	Type	Standard reaction	Reset
0xFF0D (65293_{dez})	Error	Error	Torque off	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A propagated error was received.	Check the sending axis.

0xFF0E | [SG], [SL]: Propagated error received, react with Shorted Coils Brake.

Propagated error received, react with Shorted Coils Brake.

Diagnostic code	Class	Type	Standard reaction	Reset
0xFF0E (65294_{dez})	Error	Error	Shorted coils brake	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A propagated error was received.	Check the sending axis.

0xFF0F | [SG], [SL]: Propagated error received, react with Closed Loop Ramp.

Propagated error received, react with Closed Loop Ramp.

Diagnostic code	Class	Type	Standard reaction	Reset
0xFF0F (65295_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A propagated error was received.	Check the sending axis.

0xFF10 | [SG], [SL]: Propagated error received, react with NC handling.

Propagated error received, react with NC handling.

Diagnostic code	Class	Type	Standard reaction	Reset
0xFF10 (65296_{dez})	Error	Error	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A propagated error was received.	Check the sending axis.

0xFF11 | [SG], [SL]: Error reaction shorted coils brake with emergency brake

The Axis performed a "Shorted coils brake" Errorreaction with an emergency brake.

Diagnostic code	Class	Type	Standard reaction	Reset
0xFF11 (65297_{dez})	Info	TorqueOff with emergency brake	No	Information: No reset required.

Possible causes	Solutions
The emergency brake function was triggered because of the given parameters and a shorted coils error reaction.	This is just an information, because the behavior is intended but might wear out the brake faster.

0xFF12 | [SG], [SL]: Error reaction TorqueOff Timeout

The Axis performed a torque off Errorreaction with an emergency brake.

Diagnostic code	Class	Type	Standard reaction	Reset
0xFF12 (65298_{dez})	Error	TorqueOff with emergency brake	Torque off	Execute Reset-Command (Fault reset).

0xFFFF | [SG], [SL]: Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xFFFF (65535_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

2.5 DiagMessages of module Interpolator

0x6320 | [SG], [SL]: Parameter error in Object 0xXX/XX

The mentioned parameter contains a not accepted value.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6320 (25376_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Something is wrong with the parameters in this object.	Please check the parameters of the mentioned object.

0x6386 | [SG], [SL]: Parameter Interpolator: Illegal NC-Task cycle time

Parameter Interpolator: Too low NC-Task cycle time for this interpolation sub mode selection. The feed forward control may not work as expected.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6386 (25478_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
Parameter Interpolator: Too low NC-Task cycle time for this interpolation sub mode selection.	Adjust NC-Task cycle time.

0x8188 | [SG], [SL]: Process data synchronization lost

The process data synchronization is not available any more.

Diagnostic code	Class	Type	Standard reaction	Reset
0x8188 (33160_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The PC is sending invalid signals (jitter). Numerous causes are hardware problems and device drivers which mask the interrupts.	Check the PC.
Synchronization of the distributed clocks failed	Restart the EtherCAT-Master.
CRC-Error on the EtherCAT bus	Disconnect the servo drive from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff branch office that is responsible for you.
Several EtherCAT telegrams have been lost.	Start an "Emergency scan" in the "System Manager"
I/O update takes place at the end of the task.	In the System Manager parameterize the I/O update at the start of the task.
The prioritization of the individual tasks is unfavorable.	Please check the task prioritization.

0x8680 | [SG], [SL]: Position Demand Value outside of the specified Position Range Limits

Position Demand Value outside of the specified Position Range Limits

Diagnostic code	Class	Type	Standard reaction	Reset
0x8680 (34432_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The position demand value generated by the interpolator lies outside the configured position range limits.	Check the position range limit parameters and the set-value source.

0xA01A | [SG], [SL]: TxPdo Mapping Error: Object 0xXX/XX has to be mapped for modes of operation II.

TxPdo Mapping Error: Object 0x%x/%x has to be mapped for modes of operation %d.

Diagnostic code	Class	Type	Standard reaction	Reset
0xA01A (40986_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A necessary process data for this mode of operation is not mapped	Add the necessary process data for this mode of operation

0xFFFF | [SG], [SL]: Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xFFFF (65535_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

2.6 DiagMessages of module PositionControl

0x8611 | [SG], [SL]: Following error

The servo drive has detected a following error.

Diagnostic code	Class	Type	Standard reaction	Reset
0x8611 (34321_{dez})	Error	Error	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The following error has exceeded the maximum value.	Analyze your application and increase the maximum value of Object 6065 or 6066, if appropriate.
The mechanical system is too sluggish.	Analyze your application and try to make the mechanical system smoother.
An error has occurred in the set value generation.	Analyze the cause (NC, internal set value generation, etc.). If no solution can be found, contact support.
The speed limit has been reached.	Analyze the motor parametrization or your calculation and check the maximum motor speed value used in the calculation.
The current limit has been reached.	Analyze the motor parametrization or your calculation and check whether the motor can theoretically follow the set values.
The set value dynamic characteristics are set too "hard".	Analyze your application and check whether it is theoretically possible to achieve the specified dynamics.

0xFFFF | [SG], [SL]: Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xFFFF (65535_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

2.7 DiagMessages of module VelocityControl

0x3183 | [SG], [SL]: The bipolar velocity limit is higher than 1/4 of position range limit per EtherCAT Sync1 cycle.

The maximum accepted position step per cycle is 1/4 of the position range limit range. This error occurs, if the resulting velocity is lower than the bipolar velocity limit.

Diagnostic code	Class	Type	Standard reaction	Reset
0x3183 (12675_{dez})	Error	Error	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The maximum accepted position step per cycle is 1/4 of the position range limit range. This error occurs, if the resulting velocity is lower than the bipolar velocity limit.	Raise your position range limit or lower your bipolar velocity limit.

0x7186 | [SG], [SL]: Detected moving axis on enable transition.

The Axis was moving in the disabled State and was now stopped during the enable transition.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7186 (29062_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The Axis was moving in the disabled State and was now stopped during the enable transition.	Enable Axis only, if it is not moving.
	Increase Velocity threshold (0x3142:04/0x3542:04)

0x8480 | [SG], [SL]: Overspeed error

The speed of the axis is higher than the parameterized maximum value in the Velocity error tolerance Object

Diagnostic code	Class	Type	Standard reaction	Reset
0x8480 (33920_{dez})	Error	Overspeed error	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The speed of the axis is higher than the parameterized maximum value in the Velocity error tolerance Object	Raise the velocity error tolerance or reduce your target velocity.

0x8481 | [SG], [SL]: Error reaction "Closed loop ramp" had a timeout

A closed loop error reaction was aborted because of a timeout.

Diagnostic code	Class	Type	Standard reaction	Reset
0x8481 (33921_{dez})	Error	Error	Shorted coils brake	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The control loop wasn't able to create enough torque for the deceleration.	Increase quick stop deceleration value.
The control loop wasn't able to create enough torque for the deceleration.	Check the torque limiting parameters.
The axis is humming and standstill wasn't detected.	Check control parameters to reduce humming.
The axis is humming and standstill wasn't detected.	Adjust standstill detection parameters, velocity threshold and velocity threshold time.

0x8482 | [SG], [SL]: The maximum accepted collision torque is exceeded.

The maximum accepted collision torque is exceeded.

Diagnostic code	Class	Type	Standard reaction	Reset
0x8482 (33922_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The maximum accepted collision torque is exceeded.	Check the 'Collision torque limit' and / or adjust the torque feedforward value.

0x8483 | [SG], [SL]: Gain scheduling data invalid.

The gain scheduling data is invalid.

Diagnostic code	Class	Type	Standard reaction	Reset
0x8483 (33923_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The velocity values are not in increasing order.	Each velocity value has to be higher than the previous one.

0xFFFF | [SG], [SL]: Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xFFFF (65535_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

2.8 DiagMessages of module BiquadFilter

0x6184 | FPU Exception while CoE Write on 0xXX/XX ID1 0xXX ID2 0xXX.

Fatal Software Error.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6184 (24964_{dez})	Error	Error	Axis is inoperable	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
FPU exception during CoE Write processing.	Please switch the 24 V supply off and on again. If this happens again, contact the Beckhoff branch office that is responsible for you.

0x6185 | FPU Exception in Runtime ID1 0xXX ID2 0xXX.

Fatal Software Error.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6185 (24965_{dez})	Error	Error	Axis is inoperable	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
FPU exception during runtime.	Please switch the 24 V supply off and on again. If this happens again, contact the Beckhoff branch office that is responsible for you.

0x6320 | Parameter error in object 0xXX/XX

The mentioned parameter contains a not accepted value.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6320 (25376_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Something is wrong with the parameters in this object.	Please check the parameters of the mentioned object.

0x63AB | The filter parameterization is not valid

The parameterization of the filter is not valid

Diagnostic code	Class	Type	Standard reaction	Reset
0x63AB (25515_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The parameterization of the filter is not valid	Please check the parameters of the filter.

0xFFFF | Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xFFFF (65535_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the power supply module from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

2.9 DiagMessages of module TorqueControl

0x2330 | [SG], [SL]: Earth leakage (motor-side)

The Iuvw sum Monitoring detected an Error.

Diagnostic code	Class	Type	Standard reaction	Reset
0x2330 (9008_{dez})	Error	Motor connection error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Iuvw sum (0x3242/14) raised above the parameter Iuvw sum max (0x3243/07)	Please check the Motor connection and validate the parameter value.

0x2390 | [SG], [SL]: Amplifier overload utilization

The parametrized utilization limit has been reached.

Diagnostic code	Class	Type	Standard reaction	Reset
0x2390 (9104_{dez})	Error	Error	Open loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The Amplifier operates in U/f control and has reached its utilization limit.	Check your motion profile and motor parameters.

0x3181 | [SG], [SL]: Phase frequency (motor-side) raised above 600 Hz

Phase frequency (motor-side) raised above 600 Hz and you have a dual use limited device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x3181 (12673_{dez})	Error	Overspeed error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Phase frequency (motor-side) raised above 600 Hz and you have a dual use limited device.	Reduce your target velocity.

0x3182 | [SG], [SL]: Velocity actual Value raised above the max channel accepted velocity

Velocity actual Value raised above the max channel accepted velocity

Diagnostic code	Class	Type	Standard reaction	Reset
0x3182 (12674_{dez})	Error	Overspeed error	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Velocity actual Value raised above the max channel accepted velocity	Reduce your target velocity.

0x6320 | [SG], [SL]: Parameter error in object 0xXX/XX

The mentioned parameter contains a not accepted value.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6320 (25376_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Something is wrong with the parameters in this object.	Please check the parameters of the mentioned object.

0x6388 | [SG], [SL]: Parameter Torque Control: The value in object 0xXX/XX is higher than the motor peak current (0xXX/XX).

The rated current is higher than the motor peak current.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6388 (25480_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Something is wrong with the parameters in this object.	Please check the parameters of the mentioned object.

0x6389 | [SG], [SL]: Parameter Torque Control: The value in object 0xXX/XX is higher than the configured peak current (0xXX/XX).

The rated current is higher than the channel peak current.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6389 (25481_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Something is wrong with the parameters in this object.	Please check the parameters of the mentioned object.

0x638F | [SG], [SL]: Parameter Torque Control: The value in Object 0xXX/XX is higher than the Motor maximum voltage slope (0xXX/XX).

The voltage slope of the parametrized motor is not valid for this drive

Diagnostic code	Class	Type	Standard reaction	Reset
0x638F (25487_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Something is wrong with the parameters in this object.	Please check the parameters of the mentioned object.

0x63AD | [SG], [SL]: Motor torque/ force characteristic is not valid for internal calculation.

Motor torque/ force characteristic is not valid for internal calculation.

Diagnostic code	Class	Type	Standard reaction	Reset
0x63AD (25517_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Motor torque/ force characteristic is not valid for internal calculation.	Please use latest Drive Manager 2 version.

0x63B6 | [SG], [SL]: Parameter Torque Control: Invalid device total output current sum

The device total output current sum is too high. (Sum of all axes.)

Diagnostic code	Class	Type	Standard reaction	Reset
0x63B6 (25526_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The configured rated current sum is higher than accepted by the device.	Please check the configured rated current parameters of all axes.
The configured peak current sum is higher than accepted by the device.	Please check the configured peak current parameters of all axes.
The configured current sum is higher than accepted by the device because of a pwm mode considered derating.	Please check the configured pwm mode parameters of all axes.

0x63B9 | [SG], [SL]: Configuration in object 0xXX/XX is not supported with this device

The configuration in mentioned parameter is not supported with this device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x63B9 (25529_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The configuration is not supported with that specific device type.	Please check the documentation and adjust the configuration.

0xFFFF | [SG], [SL]: Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xFFFF (65535_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

2.10 DiagMessages of module SynchronousMotor

0x6320 | [SG], [SL]: Parameter error in Object 0xXX/XX

The mentioned parameter contains a not accepted value.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6320 (25376_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Something is wrong with the parameters in this object.	Please check the parameters of the mentioned object.

0x6387 | [SG], [SL]: Parameter Motor. The configured DCLink Max Voltage is higher than the Motor Max Voltage.

The configured DCLink Max Voltage is higher than the Motor Max Voltage.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6387 (25479_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Something is wrong with the parameters in this object.	Please check the parameters of the mentioned object.

0x638A | [SG], [SL]: The Axis seems not to be parameterized.

No motor was parameterized for this axis

Diagnostic code	Class	Type	Standard reaction	Reset
0x638A (25482_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The Object 'Motor parameters/Configured motor type' was not set.	Write your motor type into 'Motor parameters/ Configured motor type'.

0x638B | [SG], [SL]: Parameter Torque Current curve: Unable to calculate Torque Current curve.

The characteristic is not monotonically increasing or not in the right working range.

Diagnostic code	Class	Type	Standard reaction	Reset
0x638B (25483_{dez})	Error	Error	Shorted coils brake	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The characteristic is not monotonically increasing or not in the right working range.	Check the configured motor and the torque current curve.

0x638C | [SG], [SL]: Motor type does not match

The parameterized motor type is not valid

Diagnostic code	Class	Type	Standard reaction	Reset
0x638C (25484_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Something is wrong with the parameters in this object.	Please check the parameters of the mentioned object.

0x638D | [SG], [SL]: Connected Motor is compatible with the configured Motor

Diagnostic code	Class	Type	Standard reaction	Reset
0x638D (25485_{dez})	Info	Information	No	Information: No reset required.

0x638E | [SG], [SL]: The Motor brake is automatically unlocked

Diagnostic code	Class	Type	Standard reaction	Reset
0x638E (25486$_{dez}$)	Info	Information	No	Information: No reset required.

0x63B8 | [SG], [SL]: Motor control mode not supported with this device

Motor control mode not supported with this device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x63B8 (25528$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The configured motor control mode is not supported with this device	Adjust the motor control mode configuration.

0x63B9 | [SG], [SL]: Configuration in object 0xXX/XX is not supported with this device

The configuration in mentioned parameter is not supported with this device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x63B9 (25529$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The configuration is not supported with that specific device type.	Please check the documentation and adjust the configuration.

0x7122 | [SG], [SL]: Motor error or commutation malfunction

Motor error or commutation malfunction

Diagnostic code	Class	Type	Standard reaction	Reset
0x7122 (28962$_{dez}$)	Error	Commutation error	Shorted coils brake	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The velocity actual value (0x606C) and the actual value of Uq (0x3242/0xF) have a different sign and raised above the configured thresholds.	Check the Motor commutation monitoring parameters (0x32C6)

0x7181 | [SG], [SL]: Motor thermal utilization has reached the warning level

Diagnostic code	Class	Type	Standard reaction	Reset
0x7181 (29057$_{dez}$)	Warning	Thermal utilization warning	No	Warning: No reset required.

0x7182 | [SG], [SL]: Motor thermal utilization has left the warning level

Diagnostic code	Class	Type	Standard reaction	Reset
0x7182 (29058$_{dez}$)	Info	Thermal utilization warning is gone information	No	Information: No reset required.

0x7183 | [SG], [SL]: Motor thermal utilization has reached the Error Level

Diagnostic code	Class	Type	Standard reaction	Reset
0x7183 (29059_{dez})	Warning	Thermal utilization warning	No	Warning: No reset required.

0x7184 | [SG], [SL]: Motor overload shut down

The thermal motor model has detected an overload and turned off

Diagnostic code	Class	Type	Standard reaction	Reset
0x7184 (29060_{dez})	Error	Motor overload shut down	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The thermal motor model has detected an overload and turned off	Reduce the motor load.

0x7185 | [SG], [SL]: Motor overtemperature shut down

The thermal sensor of the motor has detected an overtemperature and turned off

Diagnostic code	Class	Type	Standard reaction	Reset
0x7185 (29061_{dez})	Error	Motor overtemperature shut down	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The thermal sensor of the motor has detected an overtemperature and turned off	Reduce the motor temperature.

0x7186 | [SG], [SL]: Commutation offset source: No commutation offset existing in source 'encoder memory'

There is no commutation offset stored, for the selected source 'encoder memory'.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7186 (29062_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A commutation offset should be used, but no position offset has been saved.	Calibrate the axis and save the new commutation offset.

0x7187 | [SG], [SL]: Cogging compensation init error, Additional Errorcode 0xXX

The initialization of the cogging compensation failed.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7187 (29063_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x7188 | [SG], [SL]: Motor overtemperature warning

The motor temperature has reached the warning level.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7188 (29064_{dez})	Warning	Motor Overtemperature warning	No	Warning: No reset required.

Possible causes	Solutions
The motor temperature has reached the warning level.	Reduce the motor temperature.

0x7189 | [SG], [SL]: Invalid motor temperature sensor characteristic

The motor temperature sensor characteristic data is invalid.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7189 (29065_{dez})	Error	Motor overtemperature shut down	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The motor temperature sensor characteristic is not a rising or falling curve.	Check values of the motor temperature sensor characteristic object.

0x718A | [SG], [SL]: Invalid motor temperature sensor data

The data of the motor temperature sensor is invalid.

Diagnostic code	Class	Type	Standard reaction	Reset
0x718A (29066_{dez})	Error	Motor overtemperature shut down	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The selected motor temperature sensor has an invalid data state.	Check the configured motor temperature sensor connection.

0x718B | [SG], [SL]: Invalid motor inductance characteristic

The motor inductance characteristic data is invalid or does not match the configured winding inductance Lq in the motor parameters.

Diagnostic code	Class	Type	Standard reaction	Reset
0x718B (29067_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The current values are not increasing, or the inductance values do not match the winding inductance Lq configured in the motor parameters.	The current values must be strictly increasing, and the inductance values must not exceed twice the winding inductance Lq configured in the motor parameters.

0x718C | [SG], [SL]: Sensorless control timeout error

The motor commutation position could not be estimated within the configured time.

Diagnostic code	Class	Type	Standard reaction	Reset
0x718C (29068_{dez})	Error	Error	Shorted coils brake	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The sensorless position estimation failed.	Check sensorless control parameter settings.

0x718D | [SG], [SL]: Sensorless control commutation position lost

The commutation position deviation exceeds the configured threshold.

Diagnostic code	Class	Type	Standard reaction	Reset
0x718D (29069_{dez})	Error	Error	Shorted coils brake	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The commutation position deviation exceeds the configured threshold.	Check sensorless control parameter settings.

0x718E | [SG], [SL]: Commutation offset not valid

The commutation offset is not valid.

Diagnostic code	Class	Type	Standard reaction	Reset
0x718E (29070_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
No valid commutation offset value is available.	Check commutation offset source settings and feedback type. Calibrate commutation offset if required.

0x718F | [SG], [SL]: Commutation offset command parameter error

Commutation offset command method is not suitable for automatic commutation offset calibration.

Diagnostic code	Class	Type	Standard reaction	Reset
0x718F (29071_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The selected commutation offset command method is not sufficient for automatic commutation offset calibration.	Check commutation offset command parameter settings and choose a suitable method.

0x7190 | [SG], [SL]: Commutation offset command excessive current deviation

Excessive current deviation during commutation offset command execution.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7190 (29072_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Excessive current deviation between current setpoint and actual value during commutation offset command execution.	Check commutation offset command parameter and current limitation settings.

0x7191 | [SG], [SL]: Commutation offset command feedback direction error

Commutation offset command feedback direction error.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7191 (29073_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The feedback direction does not correspond to motor movement direction.	Check feedback wiring and parametrization.

0x7192 | [SG], [SL]: Commutation offset command free movement check failed

Free movement check after commutation offset measurement failed.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7192 (29074_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Free movement check after commutation offset measurement failed.	Please check whether the axis can move freely.

0x7193 | [SG], [SL]: Field weakening not supported in selected motor control mode

Field weakening not supported in selected motor control mode.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7193 (29075_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Field weakening not supported in selected motor control mode.	Check motor control mode and field weakening settings.

0x7194 | [SG], [SL]: Cogging compensation error, Id=0xXX, Arg=0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x7194 (29076_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x7195 | [SG], [SL]: Cogging compensation warning, Id=0xXX, Arg=0xXX

Cogging compensation warning.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7195 (29077_{dez})	Warning	Information	No	Information: No reset required.

Possible causes	Solutions
The cogging compensation reported a warning during operation.	Check the cogging-compensation configuration and re-run the cogging identification if the warning persists.

0x7196 | [SG], [SL]: Position overflow detected

The drive detected a position overflow on a linear encoder.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7196 (29078_{dez})	Error	Error	Closed loop ramp	Execute Extended Reset-Command (Fault reset with 'Unlock extended fault reset' Parameter).

Possible causes	Solutions
The drive detected a position overflow, which is not expected on a linear encoder.	Use your linear encoder offset settings to prevent the overflow.

0x7197 | [SG], [SL]: The module in the torque control slot is not compatible with the configured motor

Wrong module in torque control slot.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7197 (29079$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The module in the torque control slot is not compatible with the configured motor.	Adjust the slot configuration.

0xFFFF | [SG], [SL]: Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xFFFF (65535$_{dez}$)	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

2.11 DiagMessages of module AsynchronousMotor

0x6320 | [SG], [SL]: Parameter error in Object 0xXX/XX

The mentioned parameter contains a not accepted value.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6320 (25376$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Something is wrong with the parameters in this object.	Please check the parameters of the mentioned object.

0x6387 | [SG], [SL]: Parameter Motor. The configured DCLink Max Voltage is higher than the Motor Max Voltage.

The configured DCLink Max Voltage is higher than the Motor Max Voltage.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6387 (25479$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Something is wrong with the parameters in this object.	Please check the parameters of the mentioned object.

0x638A | [SG], [SL]: The Axis seems not to be parameterized.

No motor was parameterized for this axis

Diagnostic code	Class	Type	Standard reaction	Reset
0x638A (25482$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The Object 'Motor parameters/Configured motor type' was not set.	Write your motor type into 'Motor parameters/ Configured motor type'.

0x638B | [SG], [SL]: Parameter Torque Current curve: Unable to calculate Torque Current curve.

The characteristic is not monotonically increasing or not in the right working range.

Diagnostic code	Class	Type	Standard reaction	Reset
0x638B (25483$_{dez}$)	Error	Error	Shorted coils brake	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The characteristic is not monotonically increasing or not in the right working range.	Check the configured motor and the torque current curve.

0x638C | [SG], [SL]: Motor type does not match

The parameterized motor type is not valid

Diagnostic code	Class	Type	Standard reaction	Reset
0x638C (25484$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Something is wrong with the parameters in this object.	Please check the parameters of the mentioned object.

0x638D | [SG], [SL]: Connected Motor is compatible with the configured Motor

Diagnostic code	Class	Type	Standard reaction	Reset
0x638D (25485$_{dez}$)	Info	Information	No	Information: No reset required.

0x638E | [SG], [SL]: The Motor brake is automatically unlocked

Diagnostic code	Class	Type	Standard reaction	Reset
0x638E (25486$_{dez}$)	Info	Information	No	Information: No reset required.

0x63B8 | [SG], [SL]: Motor control mode not supported with this device

Motor control mode not supported with this device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x63B8 (25528$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The configured motor control mode is not supported with this device.	Adjust the motor control mode configuration.

0x63B9 | [SG], [SL]: Configuration in object 0xXX/XX is not supported with this device

The configuration in mentioned parameter is not supported with this device.

Diagnostic code	Class	Type	Standard reaction	Reset
0x63B9 (25529$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The configuration is not supported with that specific device type.	Please check the documentation and adjust the configuration.

0x7122 | [SG], [SL]: Motor error or commutation malfunction

Motor error or commutation malfunction

Diagnostic code	Class	Type	Standard reaction	Reset
0x7122 (28962_{dez})	Error	Commutation error	Shorted coils brake	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The velocity actual value (0x606C) and the actual value of Uq (0x3242/0xF) have a different sign and raised above the configured thresholds.	Check the Motor commutation monitoring parameters (0x32C6)

0x7181 | [SG], [SL]: Motor thermal utilization has reached the warning level

Diagnostic code	Class	Type	Standard reaction	Reset
0x7181 (29057_{dez})	Warning	Thermal utilization warning	No	Warning: No reset required.

0x7182 | [SG], [SL]: Motor thermal utilization has left the warning level

Diagnostic code	Class	Type	Standard reaction	Reset
0x7182 (29058_{dez})	Info	Thermal utilization warning is gone information	No	Information: No reset required.

0x7183 | [SG], [SL]: Motor thermal utilization has reached the Error Level

Diagnostic code	Class	Type	Standard reaction	Reset
0x7183 (29059_{dez})	Warning	Thermal utilization warning	No	Warning: No reset required.

0x7184 | [SG], [SL]: Motor overload shut down

The thermal motor model has detected an overload and turned off

Diagnostic code	Class	Type	Standard reaction	Reset
0x7184 (29060_{dez})	Error	Motor overload shut down	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The thermal motor model has detected an overload and turned off	Reduce the motor load.

0x7185 | [SG], [SL]: Motor overtemperature shut down

The thermal sensor of the motor has detected an overtemperature and turned off

Diagnostic code	Class	Type	Standard reaction	Reset
0x7185 (29061$_{dez}$)	Error	Motor overtemperature shut down	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The thermal sensor of the motor has detected an overtemperature and turned off	Reduce the motor temperature.

0x7186 | [SG], [SL]: Commutation offset source: No commutation offset existing in source 'encoder memory'

There is no commutation offset stored, for the selected source 'encoder memory'.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7186 (29062$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A commutation offset should be used, but no position offset has been saved.	Calibrate the axis and save the new commutation offset.

0x7187 | [SG], [SL]: Cogging compensation init error, Additional Errorcode 0xXX

The initialization of the cogging compensation failed.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7187 (29063$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x7188 | [SG], [SL]: Motor overtemperature warning

The motor temperature has reached the warning level.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7188 (29064$_{dez}$)	Warning	Motor Overtemperature warning	No	Warning: No reset required.

Possible causes	Solutions
The motor temperature has reached the warning level.	Reduce the motor temperature.

0x7189 | [SG], [SL]: Invalid motor temperature sensor characteristic

The motor temperature sensor characteristic data is invalid.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7189 (29065$_{dez}$)	Error	Motor overtemperature shut down	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The motor temperature sensor characteristic is not a rising or falling curve.	Check values of the motor temperature sensor characteristic object.

0x718A | [SG], [SL]: Invalid motor temperature sensor data

The data of the motor temperature sensor is invalid.

Diagnostic code	Class	Type	Standard reaction	Reset
0x718A (29066_{dez})	Error	Motor overtemperature shut down	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The selected motor temperature sensor has an invalid data state.	Check the configured motor temperature sensor connection.

0x718B | [SG], [SL]: Invalid motor inductance characteristic

The motor inductance characteristic data is invalid or does not match the configured winding inductance Lq in the motor parameters.

Diagnostic code	Class	Type	Standard reaction	Reset
0x718B (29067_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The current values are not increasing, or the inductance values do not match the winding inductance Lq configured in the motor parameters.	The current values must be strictly increasing, and the inductance values must not exceed twice the winding inductance Lq configured in the motor parameters.

0x718C | [SG], [SL]: Sensorless control timeout error

The motor commutation position could not be estimated within the configured time.

Diagnostic code	Class	Type	Standard reaction	Reset
0x718C (29068_{dez})	Error	Error	Shorted coils brake	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The sensorless position estimation failed.	Check sensorless control parameter settings.

0x718D | [SG], [SL]: Sensorless control commutation position lost

The commutation position deviation exceeds the configured threshold.

Diagnostic code	Class	Type	Standard reaction	Reset
0x718D (29069_{dez})	Error	Error	Shorted coils brake	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The commutation position deviation exceeds the configured threshold.	Check sensorless control parameter settings.

0x718E | [SG], [SL]: Commutation offset not valid

The commutation offset is not valid.

Diagnostic code	Class	Type	Standard reaction	Reset
0x718E (29070_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
No valid commutation offset value is available.	Check commutation offset source settings and feedback type. Calibrate commutation offset if required.

0x718F | [SG], [SL]: Commutation offset command parameter error

Commutation offset command method is not suitable for automatic commutation offset calibration.

Diagnostic code	Class	Type	Standard reaction	Reset
0x718F (29071$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The selected commutation offset command method is not sufficient for automatic commutation offset calibration.	Check commutation offset command parameter settings and choose a suitable method.

0x7190 | [SG], [SL]: Commutation offset command excessive current deviation

Excessive current deviation during commutation offset command execution.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7190 (29072$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Excessive current deviation between current setpoint and actual value during commutation offset command execution.	Check commutation offset command parameter and current limitation settings.

0x7191 | [SG], [SL]: Commutation offset command feedback direction error

Commutation offset command feedback direction error.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7191 (29073$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The feedback direction does not correspond to motor movement direction.	Check feedback wiring and parametrization.

0x7192 | [SG], [SL]: Commutation offset command free movement check failed

Free movement check after commutation offset measurement failed.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7192 (29074$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Free movement check after commutation offset measurement failed.	Please check whether the axis can move freely.

0x7193 | [SG], [SL]: Field weakening not supported in selected motor control mode

Field weakening not supported in selected motor control mode.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7193 (29075$_{dez}$)	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Field weakening not supported in selected motor control mode.	Check motor control mode and field weakening settings.

0x7194 | [SG], [SL]: Cogging compensation error, Id=0xXX, Arg=0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x7194 (29076_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x7195 | [SG], [SL]: Cogging compensation warning, Id=0xXX, Arg=0xXX

Cogging compensation warning.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7195 (29077_{dez})	Warning	Information	No	Information: No reset required.

Possible causes	Solutions
The cogging compensation reported a warning during operation.	Check the cogging-compensation configuration and re-run the cogging identification if the warning persists.

0x7196 | [SG], [SL]: Position overflow detected

The drive detected a position overflow on a linear encoder.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7196 (29078_{dez})	Error	Error	Closed loop ramp	Execute Extended Reset-Command (Fault reset with 'Unlock extended fault reset' Parameter).

Possible causes	Solutions
The drive detected a position overflow, which is not expected on a linear encoder.	Use your linear encoder offset settings to prevent the overflow.

0x7197 | [SG], [SL]: The module in the torque control slot is not compatible with the configured motor

Wrong module in torque control slot.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7197 (29079_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The module in the torque control slot is not compatible with the configured motor.	Adjust the slot configuration.

0xFFFF | [SG], [SL]: Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xFFFF (65535_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

2.12 DiagMessages of module HpfDslRotary

0x7320 | [SG], [SL]: HpfDsl: Encoder error (position invalid), Id=0xXX, Arg=0xXX

The encoder position is invalid:

Id=1: Got no valid position from the HpfDsl-Ip-Core.
Arg = 'Internal status word'
Id=2: The position extrapolator error limit is reached.
Arg = 'Internal status word'
Id=3: The position extrapolator is too many cycles active.
Arg = value of the cycle counter

'Internal status word':
Bit 0: Enabled : IpCore enable
Bit 1: rsvd0
Bit 2: PosReady : Position ready to use
Bit 3: StartupDone : Internal startup done
Bit 4: PosErrorLimitExceeded : Extrapolator position limit exceeded
Bit 5: rsvd1
Bit 6: InterruptCorePin
Bit 7: SyncD : IpCore is synced.
Bit 8: PRST
Bit 9: QMLW
Bit 10: VPOSerror
Bit 11: POSerror
Bit 12: LastPosValid : Position from the previous cycle is valid.
Bit 13: VRTerror
Bit 14: SUM
Bit 15: InterruptOnlineStatus

Diagnostic code	Class	Type	Standard reaction	Reset
0x7320 (29472_{dez})	Error	Feedback error	Open loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions

0x7380 | [SG], [SL]: HpfDsl: Encoder start sequence failed, Id=0xXX, Arg=0xXX

The start sequence of the encoder processing failed:

Id=0x01: Encoder start failed with internal error (see 'Arg')
Id=0x0A: Check of the edge register failed (Arg=edge count)
Id=0x0B: Check of the summary register failed (Arg=summary register)
Id=0x0C: Internal error (Arg=internal exit)
Id=0x0D: File processing error (Arg=internal exit)
Id=0x0E: Invalid encoder resolution (Arg=enc resolution)
Id=0x0F: Invalid encoder range (Arg=enc range)
Id=0x10: Error in start sequence step (Arg=step number)
Id=0x11: Supply voltage could not be enabled. The encoder resistance is too low. (Arg=resistance in Ohm)
Id=0x12: Position processing init error.
Id=0x13: Encoder status register [3..0]. Arg=status reg [3..0]
Id=0x14: Encoder status register [7..4]. Arg=status reg [7..4]
Id=0x20: Invalid encoder status register 0..Arg= high word =mask, low word status reg 0

Id=0x21: Invalid encoder status register 1. Arg= high word =mask, low word status reg 1
Id=0x22: Invalid encoder status register 2..Arg= high word =mask, low word status reg 2
Id=0x23: Invalid encoder status register 3. Arg= high word =mask, low word status reg 3
Id=0x24: Invalid encoder status register 4. Arg= high word =mask, low word status reg 4
Id=0x25: Invalid encoder status register 5. Arg= high word =mask, low word status reg 5
Id=0x26: Invalid encoder status register 6. Arg= high word =mask, low word status reg 6
Id=0x27: Invalid encoder status register 7. Arg= high word =mask, low word status reg 7
Id=0x28: The encoder type signals an error (Arg=encoder type)
Id=0x29: The encoder type not supported (Arg=encoder type)
Id=0x2A: The encoder type is HF2DSL but no RID 0x90 (Arg=encoder type)
Id=0x2B: Init non binary encoder failed. The position isn't valid. (Arg=internal enc status)
Id=0x2C: Init non binary encoder failed. (Arg=internal id)
Id=0x2D: Init non binary encoder failed. Missing fpga support. (Arg=encoder type)
Id=0x2E: Invalid increments per turn
Id=0x2F: System periods and resolution invalid
Id=0x30: Linear encoder configured but a rotational one is connected
Id=0x31: Rotary encoder configured but a linear one is connected
Id=0x32: Singleturn bit error
Id=0x33: Internal SHub command list error
Id=0x34: Start sequence monitoring alert
Id=0x35: Position processing initialization failed
Id=0x36: The resolution is 0

Diagnostic code	Class	Type	Standard reaction	Reset
0x7380 (29568_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x7381 | [SG], [SL]: HpfDsl: Encoder shutdown failed, Id=0xXX, Arg=0xXX

The stop sequence of the encoder failed:

Id=0x01: Encoder stop failed with internal error (see 'Arg')
Id=0x02: Encoder stop failed. The link isn't down. (Arg=internal status)

Diagnostic code	Class	Type	Standard reaction	Reset
0x7381 (29569_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x7382 | [SG], [SL]: HpfDsl: Parameter access error, Id=0xXX, Cmd=II, RID=0xXX, Offset=II, Len=II, LongMsgErrorCode=0xXX

Encoder parameter access error:

Id=0x01..0x08: Internal error
Id=0x09: Error while accessing RID, see 'Long message error codes'

Long message error codes:
0x4010 Resource address not installed in the encoder
0x4011 Incorrect length for resource access given
0x4012 Incorrect length for direct resource access given
0x4013 Offset address too high
0x4014 Invalid offset address
0x4015 Invalid "long message" characteristic
0x4016 Missing offset address
0x4110 Write access not possible
0x4111 Read access not possible
0x4112 Write access denied
0x4113 Read access denied
0x4114 Write access for direct resource access denied
0x4210 Resource database entry damaged
0x4211 Time overrun during resource access
0x4212 Internal processing error during resource access

0x4311 File name was not found
0x4312 Invalid address for file access
0x4313 File size may not be altered
0x4314 Memory location for files full
0x4315 File allocation table damaged
0x4316 No file loaded for action
0x4317 File exists with the same name

Diagnostic code	Class	Type	Standard reaction	Reset
0x7382 (29570_{dez})	Error	Feedback error	Nc handling	Execute Reset-Command (Fault reset).

0x7383 | [SG], [SL]: HpfDsl: Internal error, Id=0xXX, Arg=0xXX

Id=0x01: Internal version check failed:
Arg=0x1: Invalid IpCore register layout
Arg=0x2: Invalid IpCore version
Arg=0x3: No line error counter available.
Arg=0x4: No Safety-IpCore
Id=0x02: Internal error:
Arg: Internal error code
Id=0x03: Internal error:
Arg: Internal error code
Id=0x04: Internal error:
Arg: Internal error code
Id=0x05: Internal error:
Arg: Internal error code
Id=0x06: Encoder voltage check error (request to the safety option):
Arg: Internal error code

Diagnostic code	Class	Type	Standard reaction	Reset
0x7383 (29571_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x7384 | [SG], [SL]: HpfDsl: Cyclic monitoring error, Id=0xXX, Arg=0xXX

Encoder status check:

Id=0x09: Too many errors on the parameter data channel . Arg='Error cnt'
Id=0x0A: Internal error
Id=0x10: Encoder status 0 check failed: Arg= HighWord='Mask', LowWord=EncST0
Id=0x11: Encoder status 1 check failed: Arg= HighWord='Mask', LowWord=EncST1
Id=0x12: Encoder status 2 check failed: Arg= HighWord='Mask', LowWord=EncST2
Id=0x13: Encoder status 3 check failed: Arg= HighWord='Mask', LowWord=EncST3
Id=0x14: Encoder status 4 check failed: Arg= HighWord='Mask', LowWord=EncST4
Id=0x15: Encoder status 5 check failed: Arg= HighWord='Mask', LowWord=EncST5
Id=0x16: Encoder status 6 check failed: Arg= HighWord='Mask', LowWord=EncST6
Id=0x17: Encoder status 7 check failed: Arg= HighWord='Mask', LowWord=EncST7

Diagnostic code	Class	Type	Standard reaction	Reset
0x7384 (29572_{dez})	Error	Feedback error	Nc handling	Execute Reset-Command (Fault reset).

0x7385 | [SG], [SL]: HpfDsl: Encoder file processing, Id=0xXX, WarnArg=0xXX

File processing warning:
Id=0x1: Found no electronic data sheet
Id=0x2: The file item (Arg) isn't found
Id=0x3: Internal error

Diagnostic code	Class	Type	Standard reaction	Reset
0x7385 (29573$_{dez}$)	Warning	Warning	No	Warning: No reset required.

0x7386 | [SG], [SL]: HpfDsl: Found no encoder (No link to an encoder)!

The HpfDSL master indicates no communication link to an encoder (motor feedback system).

Diagnostic code	Class	Type	Standard reaction	Reset
0x7386 (29574$_{dez}$)	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
No physical encoder connection.	Check and fix the encoder connection.

0x7387 | [SG], [SL]: HpfDsl: The encoder doesn't meet the specified policies. Resolutionpolicy=II [Encoder=II, Requirement=II], Rangepolicy=II [Encoder=II, Requirement=II]

The encoder doesn't meet the specified policies. See objects 'encoder policies' and 'encoder info'.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7387 (29575$_{dez}$)	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The connected encoder does not meet the configured encoder policies (resolution and/or range).	Check the 'encoder policies' and 'encoder info' objects and use an encoder that meets the requirements.

0x7388 | [SG], [SL]: HpfDsl: Encoder power off (triggered from SafeCu), Id=0xXX, Arg=0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x7388 (29576$_{dez}$)	Error	Feedback error	Shorted coils brake	Execute Reset-Command (Fault reset).

0x7389 | [SG], [SL]: HpfDsl: Encoder interface resistance check failed. Measured resistance is too low! R=II Ohm

Diagnostic code	Class	Type	Standard reaction	Reset
0x7389 (29577$_{dez}$)	Error	Feedback error	Shorted coils brake	Execute Reset-Command (Fault reset).

0x738A | Loaded fpga is not verified.

Full text of the message displayed in the TwinCAT System Manager:
(0x738A) [SG], [SL]: HpfDsl: Found no verification code for the loaded fpga.

Diagnostic code	Class	Type	Standard reaction	Reset
0x738A (29578$_{dez}$)	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
The loaded fpga is not 'Safe-Motion' verified.	Use a release firmware version.

0x738B | [SG], [SL]: HpfDsl: Internal warning! The error inducer is available.

Diagnostic code	Class	Type	Standard reaction	Reset
0x738B (29579$_{dez}$)	Warning	Warning	No	Warning: No reset required.

0x738C | [SG], [SL]: HpfDsl: Encoder seems to be offline for UU cycles. (InternalDbg: UU)

The drive received no data bits from the encoder for N cycles.

Diagnostic code	Class	Type	Standard reaction	Reset
0x738C (29580_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x738D | [SG], [SL]: HpfDsl: Invalid encoder parameter, see SubIdx UU

The CoE encoder parameter (SubIdx xxx) is invalid.

Diagnostic code	Class	Type	Standard reaction	Reset
0x738D (29581_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x738E | [SG], [SL]: HpfDsl: Encoder file processing error, FileId=0xXX, Arg=0xXX

An error occurred during processing the encoder file.
FileId:
0x01 = Electronic Data Sheet File
0x02 = User Data File
0x03 = Position Offset File
0x04 = Commutation Offset File
0x05 = Cogging Compensation Coefficients File
Arg:
0x01 = No File Header Existing
0x02 = File Size Error
0x03 = File Size Not Aligned
0x04 = Invalid File Header Error 1
0x05 = Invalid File Header Error 2
0x06 = Invalid File Header Error 3
0x07 = Invalid File Header Crc1
0x08 = Invalid File Header Crc2
0x10 = Invalid Vendor Key

Diagnostic code	Class	Type	Standard reaction	Reset
0x738E (29582_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x738F | [SG], [SL]: HpfDsl: SafeCU monitored encoder status flag is set! The next fault reset triggers an encoder restart. EncST7..4=0xXX, EncST3..0=0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x738F (29583_{dez})	Warning	Warning	No	Warning: No reset required.

0x7390 | [SG], [SL]: HpfDsl: Status dump, Encoder Status after Ilms: Summary=0xXX, Regs 7..4=0xXX, Regs 3..0=0xXX

Content of the encoder status regs 0x47...0x44 and 0x43..0x40.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7390 (29584_{dez})	Error	Feedback error	Shorted coils brake	Execute Reset-Command (Fault reset).

0x7391 | [SG], [SL]: HpfDsl: Status dump, Max occurred position deviation=UU mdeg

Diagnostic code	Class	Type	Standard reaction	Reset
0x7391 (29585_{dez})	Error	Feedback error	Shorted coils brake	Execute Reset-Command (Fault reset).

0x7392 | [SG], [SL]: HpfDsl: Status dump, Error counter VPOS=UU, ACC=UU, VRT=UU, POS=UU, LINK=UU, Encoding=UU

Diagnostic code	Class	Type	Standard reaction	Reset
0x7392 (29586$_{dez}$)	Error	Feedback error	Shorted coils brake	Execute Reset-Command (Fault reset).

0x7393 | [SG], [SL]: HpfDsl: A safety error condition is blocking the encoder voltage.

The HpfDsl encoder couldn't be started because the encoder voltage is forced off by the safety logic.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7393 (29587$_{dez}$)	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A safety error is present.	Check and clear the safety error.

0x7394 | [SG], [SL]: HpfDsl: An overload or an open load state is detected on the 2WireInterface.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7394 (29588$_{dez}$)	Warning	Warning	No	Warning: No reset required.

0x7395 | [SG], [SL]: HpfDsl: The encoder start sequence was aborted. Id=0xXX, Arg=0xXX

The start sequence of the encoder processing was aborted:

Id=0x01: An EtherCAT state request to PreOp or Init aborted the encoder start in step (see 'Arg')

Diagnostic code	Class	Type	Standard reaction	Reset
0x7395 (29589$_{dez}$)	Warning	Warning	No	Warning: No reset required.

0x73C0 | [SG], [SL]: EnDat22: Encoder error (position invalid), Id=0xXX, Arg=0xXX

The encoder position (first feedback) is invalid:

Id=1: Got no valid position from the EnDat-Ip-Core. Arg = 'Internal status word'

'Internal status word':
Bit 0: PositionReady : The position is ready to use.
Bit 1: PositionTimeout : Timeout exceeded.
Bit 2: EnDatSt_Error1 : The EnDat-IpCore signals Error 1
Bit 3: EnDatSt_Crc : The EnDat-IpCore signals an Crc-Error
Bit 4: EnDatSt_ErrorHandlerType1active
Bit 5: EnDatSt_ErrorHandlerType2active
Bit 6: EnDatSt_MrsAdrError
Bit 7: EnDatSt_NotError2 : The EnDat-IpCore signals NOT Error 2
Bit 8: EnDatSt_CrcErrorZ1 : The EnDat-IpCore signals an Crc-Error for the 'Additional Data 1'
Bit 9: EnDatSt_CrcErrorZ2 : The EnDat-IpCore signals an Crc-Error for the 'Additional Data 2'
Bit 10: EnDatSt_ReferenceLatched
Bit 11: EnDatSt_Warning
Bit 12: EnDatSt_ErrorHandlerType3active
Bit 13: rsvd
Bit 14: rsvd
Bit 15: rsvd

Diagnostic code	Class	Type	Standard reaction	Reset
0x73C0 (29632$_{dez}$)	Error	Feedback error	Open loop ramp	Execute Reset-Command (Fault reset).

0x73C1 | [SG], [SL]: EnDat22: Encoder error (position invalid), Id=0xXX, Arg=0xXX

The encoder position (second feedback) is invalid:

Id=1: Got no valid position from the EnDat-Ip-Core. Arg = 'Internal status word'

'Internal status word':
See error code description 0x73C0

Diagnostic code	Class	Type	Standard reaction	Reset
0x73C1 (29633_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x73C2 | [SG], [SL]: EnDat22: Encoder start failed, Id=0xXX, Arg=0xXX

The start sequence of the encoder processing failed:

Id=0x01: Encoder start failed with internal error code (Arg='Internal error code')
Id=0x08: Encoder file processing error. Arg=Internal Id
Id=0x0C: Encoder start failed. Start sequence aborted in step = 'Arg'
Id=0x0D: Encoder start failed. Arg=1: Pointer not allocated, Arg=2: Invalid Fpga, Arg=3: Internal error, Arg=4: MeasuringStepsPerRev or MeasuringStepLength == 0, Arg=5: Internal error, Arg=6: Init position processing failed, Arg=7: MeasuringStepsPerRev or MeasuringStepLength == 0
Id=0x0E: Invalid 'Measuring step length'

Diagnostic code	Class	Type	Standard reaction	Reset
0x73C2 (29634_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions

0x73C3 | [SG], [SL]: EnDat22: Encoder shutdown failed, Id=0xXX, Arg=0xXX

The shutdown sequence of the encoder failed:

Id=0x01: Encoder stop failed with internal error code (Arg='Internal error code')

Diagnostic code	Class	Type	Standard reaction	Reset
0x73C3 (29635_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x73C4 | [SG], [SL]: EnDat22: Parameter access error, Id=0xXX, Cmd=II, Addr=0xXX, Len=II, Data=0xXX, FifoStatus=0xXX

Parameter access failed.

Id=1: Fifo reset timeout occurred.
Id=6: Fifo error
Id=7: Fifo timeout
Id=8: Fifo not empty

Diagnostic code	Class	Type	Standard reaction	Reset
0x73C4 (29636_{dez})	Error	Feedback error	Nc handling	Execute Reset-Command (Fault reset).

0x73C5 | [SG], [SL]: EnDat22: Internal error, Id=0xXX, Arg=0xXX

Internal error!

Id=2: Invalid value (Arg=value)
Id=3: Invalid value (Arg=value)
Id=6: Resource allocation failed (Arg= 'Internal state')

Diagnostic code	Class	Type	Standard reaction	Reset
0x73C5 (29637_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x73C6 | [SG], [SL]: EnDat22: Cyclic monitoring error, Id=0xXX, Arg=0xXX

Cyclic encoder status check:

Id=0x01: Internal error
Id=0x05: Too many errors while reading the status data. Arg='Error cnt'

Diagnostic code	Class	Type	Standard reaction	Reset
0x73C6 (29638_{dez})	Error	Feedback error	Nc handling	Execute Reset-Command (Fault reset).

0x73C7 | [SG], [SL]: EnDat22: Encoder file processing, Id=0xXX, WarnArg=0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x73C7 (29639_{dez})	Warning	Warning	No	Warning: No reset required.

0x73C8 | [SG], [SL]: EnDat22: Encoder policy check (steps per revolution) failed, Enc=UU, PolicyValue=UU

Diagnostic code	Class	Type	Standard reaction	Reset
0x73C8 (29640_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x73C9 | [SG], [SL]: EnDat22: Encoder policy check (distinguishable revolutions) failed, Enc=UU, PolicyValue=UU

Diagnostic code	Class	Type	Standard reaction	Reset
0x73C9 (29641_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x73CA | [SG], [SL]: EnDat22: Encoder policy check (step length) failed, Enc=0xXXXX, PolicyValue=0xXXXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x73CA (29642_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x73CB | [SG], [SL]: EnDat22: Encoder policy check (measuring length) failed, Enc=0xXXXX, PolicyValue=0xXXXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x73CB (29643_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x73CC | [SG], [SL]: EnDat22: The multiturn part of the transferred position value is not reliable, Id=0xXX, Arg=0xXX

Id=0x1: The 'operating status error sources' displays an multiturn error 1. Arg='OpStatErrSrc'

'OpStatErrSrc':
Bit 0: LightSource
Bit 1: SignalAmplitude
Bit 2: SPos1
Bit 3: Overvoltage
Bit 4: Undervoltage
Bit 5: Overcurrent
Bit 6: TemperatureExceeded
Bit 7: SPos2
Bit 8: SSystem
Bit 9: SAllPowerDown
Bit 10: MPos1 : An M Pos 1 error message signals that the multiturn scanning or processing of the multiturn position has failed during encoder operation. The multiturn part of the transferred position value is not reliable under these conditions. Corrective measure: The consistency of the revolution counter value must be checked. If this is not possible, the axis must be referenced.
Bit 11: MPos2
Bit 12: MSystem : An M System error message signals that a multiturn-related internal error during the initialization phase of the encoder has occurred. The multiturn part of the transferred position value is not reliable under these conditions. Corrective measure: The power-on cycle should be repeated. If this also fails, a hardware problem of the encoder is probable. The consistency of the revolution counter value must also be checked.
Bit 13: MPowerFailure : The M Power failure error message signalizes that both the voltage of the buffer battery (UBAT) and the main supply voltage (UP) have fallen below the defined limit values. The subsequent electronics can only read out this error message when the main voltage supply has been restored. The multiturn part of the transferred position value is not defined and therefore faulty. During the M Power failure state there is no revolution counting. The possibly simultaneously occurring error messages M Pos 1, M System and M Overflow are to be ignored. Corrective measure: The axis must be referenced again.
Bit 14: MOverflow : The M Overflow error message signals that the specified (multiturn) counting range of the encoder has been exceeded. The encoder remains fully functional. M Overflow error messages can only be cleared when the multiturn value is again in the specified counting range. Corrective measure: Bring the axis into the specified counting range of the encoder again and clear error messages according to the EnDat specification.
Bit 15: MBattery

Diagnostic code	Class	Type	Standard reaction	Reset
0x73CC (29644_{dez})	Error	Feedback error	Axis is inoperable	Execute Extended Reset-Command (Fault reset with 'Unlock extended fault reset' Parameter).

0x73CD | [SG], [SL]: EnDat22: Encoder power off (SafeCu global shutdown), Id=0xXX, Arg=0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x73CD (29645_{dez})	Error	Feedback error	Shorted coils brake	Execute Reset-Command (Fault reset).

0x73CE | [SG], [SL]: EnDat22: Found no encoder (No link to an encoder)!

The EnDat22 master indicates no communication link to an encoder (motor feedback system).

Diagnostic code	Class	Type	Standard reaction	Reset
0x73CE (29646_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
No physical encoder connection.	Check and fix the encoder connection.

0x73CF | [SG], [SL]: EnDat22: The encoder position is received later than expected! Increase the wait time by IIns.

Diagnostic code	Class	Type	Standard reaction	Reset
0x73CF (29647_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
The encoder calculation time seems to be longer than stated in the 'Maximum calculation time' register.	Please contact the encoder manufacturer

0x73D0 | [SG], [SL]: EnDat22: An 'extended reset' has triggered the reinitialization of the multiturn part of the transferred position, Id=0xXX, Arg=0xXX

Id=0x1: The multiturn error was cleared. Arg='OpStatErrSrc' See 0x73CC

Diagnostic code	Class	Type	Standard reaction	Reset
0x73D0 (29648_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
An 'extended reset' triggered reinitialization of the multiturn position; the previous multiturn error was cleared.	No action required. Verify the absolute position after the extended reset.

0x73D1 | [SG], [SL]: EnDat22: User setting forces ignoring of incompatible encoder parameter. [MemRange II, Word II]

Diagnostic code	Class	Type	Standard reaction	Reset
0x73D1 (29649_{dez})	Warning	Warning	No	Warning: No reset required.

0x73D2 | [SG], [SL]: EnDat22: Incompatible encoder parameter [MemRange II, Word II] ignored or modified!

Diagnostic code	Class	Type	Standard reaction	Reset
0x73D2 (29650_{dez})	Warning	Warning	No	Warning: No reset required.

0x73D3 | [SG], [SL]: EnDat22: The encoder is incompatible. See MemRange II, Word II

Diagnostic code	Class	Type	Standard reaction	Reset
0x73D3 (29651_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The connected encoder isn't compatible to the EnDat2.2 mode with 8MHz.	Use a different encoder model.

0x73D4 | Loaded fpga is not verified.

Full text of the message displayed in the TwinCAT System Manager:
(0x73D4) [SG], [SL]: EnDat22: Found no verification code for the loaded fpga.

Diagnostic code	Class	Type	Standard reaction	Reset
0x73D4 (29652_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
The loaded fpga is not 'Safe-Motion' verified.	Use a release firmware version.

0x73D5 | [SG], [SL]: EnDat22: Select safety cycle content failed, Id=0xXX, Arg=0xXX

Cyclic encoder status check:

Id=0x01: Too many errors while selecting the safety cycle content. Arg='Error cnt'

Diagnostic code	Class	Type	Standard reaction	Reset
0x73D5 (29653_{dez})	Error	Feedback error	Nc handling	Execute Reset-Command (Fault reset).

0x73D6 | [SG], [SL]: EnDat22: Internal warning! The error inducer is available.

Diagnostic code	Class	Type	Standard reaction	Reset
0x73D6 (29654_{dez})	Warning	Warning	No	Warning: No reset required.

0x73D7 | [SG], [SL]: EnDat22: The encoder doesn't support the selected valuation addresses, Supported=0xXX, Configured=0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x73D7 (29655_{dez})	Error	Feedback error	Nc handling	Execute Reset-Command (Fault reset).

0x73D8 | [SG], [SL]: EnDat22: The selected valuations could not be read.

Diagnostic code	Class	Type	Standard reaction	Reset
0x73D8 (29656_{dez})	Warning	Warning	No	Warning: No reset required.

0x73D9 | [SG], [SL]: EnDat22: User setting forces a encoder start in the EnDat21 mode only! The 'position actual value' isn't available!

Diagnostic code	Class	Type	Standard reaction	Reset
0x73D9 (29657_{dez})	Warning	Warning	No	Warning: No reset required.

0x73DA | [SG], [SL]: EnDat3: Encoder file processing error, FileId=0xXX, Arg=0xXX

An error occurred during processing the encoder file.
FileId:
0x01 = Electronic Data Sheet File
0x02 = User Data File
0x03 = Position Offset File
0x04 = Commutation Offset File
0x05 = Cogging Compensation Coefficients File
Arg:
0x01 = No File Header Existing
0x02 = File Size Error
0x03 = File Size Not Aligned
0x04 = Invalid File Header Error 1
0x05 = Invalid File Header Error 2
0x06 = Invalid File Header Error 3
0x07 = Invalid File Header Crc1
0x08 = Invalid File Header Crc2
0x10 = Invalid Vendor Key

Diagnostic code	Class	Type	Standard reaction	Reset
0x73DA (29658_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x73DB | [SG], [SL]: EnDat22: The encoder start sequence was aborted. Id=0xXX, Arg=0xXX

The start sequence of the encoder processing was aborted:

Id=0x01: An EtherCAT state request to PreOp or Init aborted the encoder start in step (see 'Arg')

Diagnostic code	Class	Type	Standard reaction	Reset
0x73DB (29659_{dez})	Warning	Warning	No	Warning: No reset required.

0x73FF | [SG], [SL]: EnDat22: Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic code	Class	Type	Standard reaction	Reset
0x73FF (29695_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x7780 | [SG], [SL]: SimulationEnc: Encoder simulation is not supported for the selected motor type. (ModuleIdent 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x7780 (30592_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The selected module in the motor slot is not supported for encoder simulation.	Select another encoder type or no encoder.

0x77BF | [SG], [SL]: SimulationEnc: Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic code	Class	Type	Standard reaction	Reset
0x77BF (30655_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x77C0 | [SG], [SL]: BiSS-C: Encoder error (position invalid), Id=0xXX, Arg=0xXX

The encoder could not transmit a valid position.
Id=0x%01: Position status signals an error. Arg='Position Status'

'Position Status'
Bit 0: ChannelEnable

Bit 1: Error, Internal error occurred, reported by ic-haus IPCore.
Bit 2: PosReady, Position received and shifted, ready to be read by drive.
Bit 3: EncReady, Set once the ic-haus IPCore has been set up and is running. No evaluation of encoder's answers or correctness of configuration.
Bit 4: LastPosValid, Position in last communication cycle was valid.
Bit 5: PosValid, Combined evaluation of Bits -Error (Bit 1 of this status) -nAGSError (Bit 9 of this status) -Position valid from ic-haus core (position received, CRC validated, Bit 12 of this status) -nSCDError (Bit 8 of this status)
Bit 6: REGEND, Register Communication, not used
Bit 7: nREGERR, Register Communication, not used
Bit 8: nSCDERR , An error in the single cycle data detected by checksum verification (CRC) is shown with nSCDERR. If a sensor data error is signaled, the faulty sensor can be verified by reading SVALIDx. The nSCDERR flag is set after power on and after executing INIT.
Bit 9: nAGSERR, An AGS watchdog error nAGSERR is set during the automatic transmission of sensor data enabled by the instruction bit AGS if no new cycle could be initiated. If the last BiSS frame has not been finished in time, the next BiSS frame will be omitted. The following BiSS frame will be executed if possible. The nAGSERR flag is set when resetting the instruction bit AGS (typically by writing BREAK into the instruction register. (We do not use AGS, but the signal is misbehaving sometimes)
Bit 10: EOT, End Of Transmission, no encoder communication currently active
Bit 11: SLO_line_state, Current Status of SL, directly measured at the line, no core required.
Bit 12: SVALID1, The CRC verification result of the received single cycle sensor data of every BiSS frame is written to the validity message register SVALID for each slave separately. If the CRC is disabled in the slave configuration the correspondent SVALID flag is set after the reading of the sensor data is complete. After reading the sensor data, it is recommended to reset the validity flags by writing to the SVALID register. This way, it is possible to recognize updated sensor data.
Bit 13: rsvd : 1;
Bit 14: SenseData0, Bit 0 of received data, should be ENCODER WARNING in all BiSS-C encoders.
Bit 15: SenseData1, Bit 1 of received data, should be ENCODER ERROR in all BiSS-C encoders.

Diagnostic code	Class	Type	Standard reaction	Reset
0x77C0 (30656_{dez})	Error	Feedback error	Open loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Several causes, such as incorrect parameters or incorrect encoder connection to device.	Check encoder status in the parameter list (Encoder actual values)

0x77C1 | [SG], [SL]: BiSS-C: Encoder error (position invalid), Id=0xXX, Arg=0xXX

The secondary encoder could not transmit a valid position.
Description see error 0x77C0!

Diagnostic code	Class	Type	Standard reaction	Reset
0x77C1 (30657_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Several causes, such as incorrect parameters or incorrect encoder connection to device.	Check encoder status in the parameter list (Encoder actual values)

0x77C2 | [SG], [SL]: BiSS-C: Encoder start failed, Id=0xXX, Arg=0xXX

The Encoder could not start because of wrong parameter settings.

Id=0x1: Internal error code.
Id=0x2: The sum of single- and multiturn-bits is greater 40. Arg='SumOfBits'
Id=0x3: Sum of data bits is greater than 64. Arg='SumOfBits'

Diagnostic code	Class	Type	Standard reaction	Reset
0x77C2 (30658_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Singleturn bit count plus Multiturn bit count is greater than 40	This combination is not supported yet.
Sum of Position bit count, Fill bit left and Fill bit right is out of permissible range.	Max data bitcount of 64 is allowed.
Sum of Singleturn bit, Multiturn bit, Fill bit left and Fill bit is right out of permissible range.	Max data bitcount of 64 is allowed.
A previous error causes this error.	Fix all previous errors.

0x77C3 | [SG], [SL]: BiSS-C: Encoder shutdown failed, Id=0xXX, Arg=0xXX

The encoder shutdown failed with an internal error.

Diagnostic code	Class	Type	Standard reaction	Reset
0x77C3 (30659_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x77C4 | [SG], [SL]: BiSS-C: Internal error, Id=0xXX, Arg=0xXX

Internal Error.

Diagnostic code	Class	Type	Standard reaction	Reset
0x77C4 (30660_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x77C5 | [SG], [SL]: BiSS-C: Cyclic monitoring error, Id=0xXX, Arg=0xXX

Internal Error.

Diagnostic code	Class	Type	Standard reaction	Reset
0x77C5 (30661_{dez})	Error	Feedback error	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x77C6 | [SG], [SL]: BiSS-C: Encoder warning active, Id=0xXX, Arg=0xXX

Encoder warning active.

Diagnostic code	Class	Type	Standard reaction	Reset
0x77C6 (30662_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
There can be several reasons for this warning.	Check encoder status in the parameter list (Encoder actual values)

0x77C7 | [SG], [SL]: BiSS-C: Parameter error in object 0xXX/XX

The mentioned parameter contains a not accepted value.

Diagnostic code	Class	Type	Standard reaction	Reset
0x77C7 (30663_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Something is wrong with the parameters in this object.	Please check the parameters of the mentioned object.

0x77C8 | [SG], [SL]: BiSS-C: The encoder start sequence was aborted. Id=0xXX, Arg=0xXX

The start sequence of the encoder processing was aborted:

Id=0x01: An EtherCAT state request to PreOp or Init aborted the encoder start in step (see 'Arg')

Diagnostic code	Class	Type	Standard reaction	Reset
0x77C8 (30664_{dez})	Warning	Warning	No	Warning: No reset required.

0x77FF | [SG], [SL]: BiSS-C: Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic code	Class	Type	Standard reaction	Reset
0x77FF (30719_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x7880 | [SG], [SL]: EnDat3: Encoder error (position invalid), HPFstatus: F(0)=UU, HPFV(1)=UU, ERR_REQ(0)=UU, valid(1)=UU; ShortStatus: TrmErr(0)=UU (0xXX)

The encoder position (first feedback) is invalid!

Diagnostic code	Class	Type	Standard reaction	Reset
0x7880 (30848_{dez})	Error	Feedback error	Open loop ramp	Execute Reset-Command (Fault reset).

0x7881 | [SG], [SL]: EnDat3: Encoder error (position invalid), HPFstatus: F(0)=UU, HPFV(1)=UU, ERR_REQ(0)=UU, valid(1)=UU; ShortStatus: TrmErr(0)=UU (0xXX)

The encoder position (second feedback) is invalid!

Diagnostic code	Class	Type	Standard reaction	Reset
0x7881 (30849_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x7882 | [SG], [SL]: EnDat3: Encoder error (position invalid), ForegroundErrorCode=0xXX

The encoder position (first feedback) is invalid!

Diagnostic code	Class	Type	Standard reaction	Reset
0x7882 (30850_{dez})	Error	Feedback error	Open loop ramp	Execute Reset-Command (Fault reset).

0x7883 | [SG], [SL]: EnDat3: Encoder error (position invalid), ForegroundErrorCode=0xXX

The encoder position (second feedback) is invalid!

Diagnostic code	Class	Type	Standard reaction	Reset
0x7883 (30851_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x7884 | [SG], [SL]: EnDat3: Encoder error (position invalid), HPFvalid(1)=UU; ShortStatus: TrmError(0)=UU, HPFF(0)=UU (0xXX)

The encoder position (first feedback) is invalid!

Diagnostic code	Class	Type	Standard reaction	Reset
0x7884 (30852_{dez})	Error	Feedback error	Open loop ramp	Execute Reset-Command (Fault reset).

0x7885 | [SG], [SL]: EnDat3: Encoder error (position invalid), HPFvalid(1)=UU; ShortStatus: TrmError(0)=UU, HPFF(0)=UU (0xXX)

The encoder position (first feedback) is invalid!

Diagnostic code	Class	Type	Standard reaction	Reset
0x7885 (30853_{dez})	Error	Feedback error	Open loop ramp	Execute Reset-Command (Fault reset).

0x7886 | [SG], [SL]: EnDat3: Encoder error (position invalid), FGstatus: HPFF(0)=UU, CSerr(0)=UU, PhyErr(0)=UU, WDerr(0)=UU, StrobeErr(0)=UU (0xXX)

The encoder position (first feedback) is invalid!

Diagnostic code	Class	Type	Standard reaction	Reset
0x7886 (30854_{dez})	Error	Feedback error	Open loop ramp	Execute Reset-Command (Fault reset).

0x7887 | [SG], [SL]: EnDat3: Encoder error (position invalid), FGstatus: HPFF(0)=UU, CSerr(0)=UU, PhyErr(0)=UU, WDerr(0)=UU, StrobeErr(0)=UU (0xXX)

The encoder position (first feedback) is invalid!

Diagnostic code	Class	Type	Standard reaction	Reset
0x7887 (30855_{dez})	Error	Feedback error	Open loop ramp	Execute Reset-Command (Fault reset).

0x7888 | [SG], [SL]: EnDat3: Encoder start failed, Id=0xXX, Arg=0xXX

The start sequence of the encoder processing failed:

Id=0x01: Encoder start failed with internal error code Arg='Internal error code'
Id=0x02: Could not read EL size. Arg='Internal error code'
Id=0x03: XEL size error. Arg='Internal error code'
Id=0x04: No battery buffered multiturn encoder support. Arg='Internal error code'
Id=0x05: Position offset used but not supported. Arg='Internal error code'
Id=0x06: Invalid bits used in XSET offset pos. Arg='Internal error code'
Id=0x08: Encoder file processing error. Arg=Internal Id
Id=0x0C: Encoder start failed. Start sequence aborted in step = 'Arg'
Id=0x0D: Encoder start failed. Arg=1: Pointer not allocated, Arg=2: Invalid Fpga, Arg=3: Internal error, Arg=4:

MeasuringStepsPerRev or MeasuringStepLength == 0, Arg=5: Internal error, Arg=6: Init position processing failed, Arg=7: MeasuringStepsPerRev or MeasuringStepLength == 0
Id=0x11: The measured 'encoder' resistance connected to the TwoWireInterface is too low. Arg=Measured resistance in Ohm
Id=0x12: POS1 is not supported in the HPF

Diagnostic code	Class	Type	Standard reaction	Reset
0x7888 (30856_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions

0x7889 | [SG], [SL]: EnDat3: Encoder shutdown failed, Id=0xXX, Arg=0xXX

The shutdown sequence of the encoder failed:

Id=0x01: Encoder stop failed with internal error code (Arg='Internal error code')

Diagnostic code	Class	Type	Standard reaction	Reset
0x7889 (30857_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x788A | [SG], [SL]: EnDat3: Parameter access error, hr=0xXX, BGreq=II, ErrorCode=0xXX, Data=0xXX, 0xXX

Parameter access failed.

Diagnostic code	Class	Type	Standard reaction	Reset
0x788A (30858_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x788B | [SG], [SL]: EnDat3: Internal error, Id=0xXX, Arg=0xXX

Internal error!

Id=0x01: Invalid E3MasterInfo
Id=0x02: Invalid value1 (Arg=value)
Id=0x03: Invalid value2 (Arg=value)
Id=0x04: Invalid value3 (Arg=value)
Id=0x05: Invalid value4 (Arg=value)
Id=0x06: Resource allocation failed (Arg='Internal state')
Id=0x08: Monitoring error: Master edge cnt (Arg=Cnt)
Id=0x09: Background request: Get response returned an error (Arg=Internal error code)
Id=0x0A: Background request: Start returned an error (Arg=Internal error code)
Id=0x0B: Encoder voltage enable error (Arg=Internal error code)
Id=0x0C: Unknown temperature sensor id (Arg= high word: TempSensorId from elec. data sheet, low word: TempSensorId from CoE)
Id=0x0D: Invalid temperature sensor id (Arg= TempSensorId)
Id=0x0E: Encoder does not support the temperature sensor id (Arg= TempSensorId)
Id=0x0F: Temperature sensor id activation failed (Arg= TempSensorId)

Diagnostic code	Class	Type	Standard reaction	Reset
0x788B (30859_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x788C | [SG], [SL]: EnDat3: Cyclic monitoring error, Id=0xXX, Arg=0xXX

Cyclic encoder status check:

Id=0x01: Internal error
Id=0x05: Too many errors while reading the status data. Arg='Error cnt'

Diagnostic code	Class	Type	Standard reaction	Reset
0x788C (30860_{dez})	Error	Feedback error	Nc handling	Execute Reset-Command (Fault reset).

0x788D | [SG], [SL]: EnDat3: Encoder start failed, ambiguous motor temperature sensor id, II <> II

The motor temperature sensor id is ambiguous. The id from the electronic data sheet is different to the id from the motor parameter.

Diagnostic code	Class	Type	Standard reaction	Reset
0x788D (30861_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions

0x788E | [SG], [SL]: EnDat3: Encoder policy check (steps per revolution) failed, Enc=UU, PolicyValue=UU

Diagnostic code	Class	Type	Standard reaction	Reset
0x788E (30862_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x788F | [SG], [SL]: EnDat3: Encoder policy check (distinguishable revolutions) failed, Enc=UU, PolicyValue=UU

Diagnostic code	Class	Type	Standard reaction	Reset
0x788F (30863_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x7890 | [SG], [SL]: EnDat3: Encoder policy check (step length) failed, Enc=0xXXXX, PolicyValue=0xXXXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x7890 (30864_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x7891 | [SG], [SL]: EnDat3: Encoder policy check (measuring length) failed, Enc=0xXXXX, PolicyValue=0xXXXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x7891 (30865_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x7892 | [SG], [SL]: EnDat3: Encoder interface resistance check failed. Measured resistance is too low! R=II Ohm

Diagnostic code	Class	Type	Standard reaction	Reset
0x7892 (30866_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x7893 | [SG], [SL]: EnDat3: Encoder power off (SafeCu global shutdown), Id=0xXX, Arg=0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x7893 (30867_{dez})	Error	Feedback error	Shorted coils brake	Execute Reset-Command (Fault reset).

0x7894 | [SG], [SL]: EnDat3: Found no encoder (No link to an encoder)!

The EnDat3 master indicates no communication link to an encoder (motor feedback system).

Diagnostic code	Class	Type	Standard reaction	Reset
0x7894 (30868_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
No physical encoder connection.	Check and fix the encoder connection.

0x7895 | [SG], [SL]: EnDat3: Invalid memory area crc (memory base addr=0xXX).

The EnDat3 memory area crc value is invalid.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7895 (30869_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x7896 | [SG], [SL]: EnDat3: An encoder restart is required because the non-volatile encoder settings are modified (addr=0xXX).

The modified settings become active after a encoder restart.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7896 (30870_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x7897 | [SG], [SL]: EnDat3: A safety error condition is blocking the encoder voltage.

The EnDat3 encoder couldn't be started because the encoder voltage is forced off by the safety logic.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7897 (30871_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A safety error is present.	Check and clear the safety error.

0x7898 | Electronic data sheet: No motor temperature sensor id

Full text of the message displayed in the TwinCAT System Manager:
(0x7898) [SG], [SL]: EnDat3: Found no motor temperature sensor id in the electronic data sheet.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7898 (30872_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
The electronic data sheet contains no motor temperature sensor id.	Contact support.

0x7899 | Loaded fpga is not verified.

Full text of the message displayed in the TwinCAT System Manager:
(0x7899) [SG], [SL]: EnDat3: Found no verification code for the loaded fpga.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7899 (30873_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
The loaded fpga is not 'Safe-Motion' verified.	Use a release firmware version.

0x789A | [SG], [SL]: EnDat3: Low priority frame error, SendListEntry x=UU, y=UU, z=UU, LPFstatus=0xXX, FGerrCode=0xXX

'FGerrCode' description:
0x0000 ERR_UNKNOWN The cause of the error is unknown; this code is used if the encoder cannot classify the error
0x0001 FGERR_RECONFIGURE Device is in configuration as a result of RECONFIGURE
0x0002 FGERR_ECHO An ECHO is being responded to
0x0100 FGERR_INVALID_FID An invalid FID was configured Correct the application
0x0101 FGERR_DUPLICATE_FID FID was selected more than once during the cycle
0x0200 FGERR_INVALID_DATA LPF is supported, but invalid data were delivered internally
0x0201 FGERR_INT_TRM LPF is supported but is currently not available (value could not be formed in time)
0x0300 FGERR_NO_SENSOR_DATA Sensor box data not available
0x1100 BGERR_USAGE Generic operator error
0x1101 BGERR_USAGE_OPCODE Operator error: invalid or unsupported command code
0x1102 BGERR_USAGE_ARGUMENTS Operator error: invalid arguments
0x1103 BGERR_USAGE_SEQUENCE Operator error: invalid command sequence
0x1104 BGERR_USAGE_ACCESS_DENIED Operator error: access denied;
0x1105 BGERR_USAGE_MEM_ADDRESS Operator error: access to invalid address
0x1106 BGERR_USAGE_NO_BG Encoder fundamentally does not support background processing
0x1200 BGERR_INTERNAL Generic exception error in the encoder
0x1201 BGERR_INTERNAL_MEMORY Exception error in encoder when accessing memory
0x1202 BGERR_INTERNAL_CONFIG Exception error in encoder: configuration invalid

Diagnostic code	Class	Type	Standard reaction	Reset
0x789A (30874_{dez})	Warning	Warning	No	Warning: No reset required.

0x789B | [SG], [SL]: EnDat3: Invalid memory area crc (memory base addr=0xXX).

The EnDat3 memory area crc value is invalid.

Diagnostic code	Class	Type	Standard reaction	Reset
0x789B (30875_{dez})	Warning	Warning	No	Warning: No reset required.

0x789C | [SG], [SL]: EnDat3: Encoder warning, Status=0xXX, LatchedStatus=0xXX

The encoder warning flag is active.

Diagnostic code	Class	Type	Standard reaction	Reset
0x789C (30876_{dez})	Warning	Warning	No	Warning: No reset required.

0x789D | [SG], [SL]: EnDat3: Encoder status dump, HPFstatus: F(0)=UU, HPFV(1)=UU, ERR_REQ(0)=UU, valid(1)=UU; ShortStatus: TrmErr(0)=UU (0xXX)

The encoder position (first feedback) is invalid!

Diagnostic code	Class	Type	Standard reaction	Reset
0x789D (30877_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x789E | [SG], [SL]: EnDat3: Encoder status dump, ForegroundErrorCode=0xXX

The encoder position (first feedback) is invalid!

Diagnostic code	Class	Type	Standard reaction	Reset
0x789E (30878_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x789F | [SG], [SL]: EnDat3: Encoder status dump, HPFvalid(1)=UU; ShortStatus: TrmError(0)=UU, HPFF(0)=UU (0xXX)

The encoder position (first feedback) is invalid!

Diagnostic code	Class	Type	Standard reaction	Reset
0x789F (30879_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x78A0 | [SG], [SL]: EnDat3: Encoder status dump, FGstatus: HPFF(0)=UU, CSerr(0)=UU, PhyErr(0)=UU, WDerr(0)=UU, StrobeErr(0)=UU (0xXX)

The encoder position (first feedback) is invalid!

Diagnostic code	Class	Type	Standard reaction	Reset
0x78A0 (30880_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x78A1 | [SG], [SL]: EnDat3: Encoder seems to be offline for UU cycles. (InternalDbg: UU)

The drive received no data bits from the encoder for N cycles.

Diagnostic code	Class	Type	Standard reaction	Reset
0x78A1 (30881_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x78A2 | [SG], [SL]: EnDat3: Encoder start warning, Id=0xXX, Arg=0xXXXX

The start sequence of the encoder processing generates a warning:
Id=0x01: Irrelevant bits are influenced by a datum shift in an unpredictable manner (Arg: XSET.offset_Pos)

Diagnostic code	Class	Type	Standard reaction	Reset
0x78A2 (30882_{dez})	Warning	Warning	No	Warning: No reset required.

0x78A3 | [SG], [SL]: EnDat3: An overload or an open load state is detected on the 2WireInterface.

Diagnostic code	Class	Type	Standard reaction	Reset
0x78A3 (30883_{dez})	Warning	Warning	No	Warning: No reset required.

0x78A4 | [SG], [SL]: EnDat3: Encoder file processing error, FileId=0xXX, Arg=0xXX

An error occurred during processing the encoder file.
FileId:
0x01 = Electronic Data Sheet File
0x02 = User Data File
0x03 = Position Offset File
0x04 = Commutation Offset File
0x05 = Cogging Compensation Coefficients File
Arg:
0x01 = No File Header Existing
0x02 = File Size Error
0x03 = File Size Not Aligned
0x04 = Invalid File Header Error 1
0x05 = Invalid File Header Error 2
0x06 = Invalid File Header Error 3

0x07 = Invalid File Header Crc1
0x08 = Invalid File Header Crc2
0x10 = Invalid Vendor Key

Diagnostic code	Class	Type	Standard reaction	Reset
0x78A4 (30884_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x78A5 | [SG], [SL]: EnDat3: The encoder start sequence was aborted. Id=0xXX, Arg=0xXX

The start sequence of the encoder processing was aborted:

Id=0x01: An EtherCAT state request to PreOp or Init aborted the encoder start in step (see 'Arg')

Diagnostic code	Class	Type	Standard reaction	Reset
0x78A5 (30885_{dez})	Warning	Warning	No	Warning: No reset required.

0x78BF | [SG], [SL]: EnDat3: Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic code	Class	Type	Standard reaction	Reset
0x78BF (30911_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x78C0 | [SG], [SL]: Inc Enc: Encoder error (position invalid), Id=0xXX, Arg=0xXX

The encoder could not transmit a valid position.
Id=0x%01: Position status signals an error. Arg='Position Status'

'Position Status'
Bit 0: ChannelEnable
Bit 1: Error, Internal error occurred, reported by ic-haus IPCore.
Bit 2: PosReady, Position received and shifted, ready to be read by drive.
Bit 3: EncReady, Set once the ic-haus IPCore has been set up and is running. No evaluation of encoder's answers or correctness of configuration.
Bit 4: LastPosValid, Position in last communication cycle was valid.
Bit 5: PosValid , Combined evaluation of Bits -Error (Bit 1 of this status) -nAGSError (Bit 9 of this status) -Position valid from ic-haus core (position received, CRC validated, Bit 12 of this status) -nSCDError (Bit 8 of this status)
Bit 6:
Bit 7:
Bit 8:
Bit 9:
Bit 10:
Bit 11:
Bit 12:
Bit 13:
Bit 14:
Bit 15:

Diagnostic code	Class	Type	Standard reaction	Reset
0x78C0 (30912_{dez})	Error	Feedback error	Open loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Several causes, such as incorrect parameters or incorrect encoder connection to device.	Check encoder status in the parameter list (Encoder actual values)

0x78C1 | [SG], [SL]: Inc Enc: Encoder error (position invalid), Id=0xXX, Arg=0xXX

The secondary encoder could not transmit a valid position.
Description see error 0x78C0!

Diagnostic code	Class	Type	Standard reaction	Reset
0x78C1 (30913_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Several causes, such as incorrect parameters or incorrect encoder connection to device.	Check encoder status in the parameter list (Encoder actual values)

0x78C2 | [SG], [SL]: Inc Enc: Encoder start failed, Id=0xXX, Arg=0xXX

The Encoder could not start because of wrong parameter settings.

Diagnostic code	Class	Type	Standard reaction	Reset
0x78C2 (30914_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A previous error causes this error.	Fix all previous errors.

0x78C3 | [SG], [SL]: Inc Enc: Encoder shutdown failed, Id=0xXX, Arg=0xXX

The encoder shutdown failed with an internal error.

Diagnostic code	Class	Type	Standard reaction	Reset
0x78C3 (30915_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x78C4 | [SG], [SL]: Inc Enc: Internal error, Id=0xXX, Arg=0xXX

Internal Error.

Diagnostic code	Class	Type	Standard reaction	Reset
0x78C4 (30916_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x78C5 | [SG], [SL]: Inc Enc: Cyclic monitoring error, Id=0xXX, Arg=0xXX

Internal Error.

Diagnostic code	Class	Type	Standard reaction	Reset
0x78C5 (30917_{dez})	Error	Feedback error	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x78C6 | [SG], [SL]: Inc Enc: Encoder warning active, Id=0xXX, Arg=0xXX

Encoder warning active.

Diagnostic code	Class	Type	Standard reaction	Reset
0x78C6 (30918_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
There can be several reasons for this warning.	Check encoder status in the parameter list (Encoder actual values)

0x78C7 | [SG], [SL]: Inc Enc: SinCos Encoder error (Vector length too long), Vector length = FFV

Diagnostic code	Class	Type	Standard reaction	Reset
0x78C7 (30919_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x78C8 | [SG], [SL]: Inc Enc: SinCos Encoder error (Vector length too short), Vector length = FFV

Diagnostic code	Class	Type	Standard reaction	Reset
0x78C8 (30920_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x78C9 | [SG], [SL]: Inc Enc: SinCos Encoder error (SinCos period counting error)

The crosscheck of the periods counted with the SinCos encoder interface and the periods counted with the additional TTL counter exceeded the tolerance value

Diagnostic code	Class	Type	Standard reaction	Reset
0x78C9 (30921_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x78CA | [SG], [SL]: Inc Enc: TTL Encoder error (Broken wire detected)

Diagnostic code	Class	Type	Standard reaction	Reset
0x78CA (30922_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x78CB | [SG], [SL]: Inc Enc: TTL Encoder warning active, Id=0xXX, Arg=0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x78CB (30923_{dez})	Warning	Warning	No	Warning: No reset required.

0x78CC | [SG], [SL]: Inc Enc: Parameter error in object 0xXX/XX

The mentioned parameter contains a not accepted value.

Diagnostic code	Class	Type	Standard reaction	Reset
0x78CC (30924_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Something is wrong with the parameters in this object.	Please check the parameters of the mentioned object.

0x78FF | [SG], [SL]: Inc Enc: Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic code	Class	Type	Standard reaction	Reset
0x78FF (30975_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0xFFFF | [SG], [SL]: HpfDsl: Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xFFFF (65535_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

2.13 DiagMessages of module SimulationRotary

0x7320 | [SG], [SL]: HpfDsl: Encoder error (position invalid), Id=0xXX, Arg=0xXX

The encoder position is invalid:

Id=1: Got no valid position from the HpfDsl-Ip-Core.
Arg = 'Internal status word'
Id=2: The position extrapolator error limit is reached.
Arg = 'Internal status word'
Id=3: The position extrapolator is too many cycles active.
Arg = value of the cycle counter

'Internal status word':
Bit 0: Enabled : IpCore enable
Bit 1: rsvd0
Bit 2: PosReady : Position ready to use
Bit 3: StartupDone : Internal startup done
Bit 4: PosErrorLimitExceeded : Extrapolator position limit exceeded
Bit 5: rsvd1
Bit 6: InterruptCorePin
Bit 7: SyncD : IpCore is synced.
Bit 8: PRST
Bit 9: QMLW

Bit 10: VPOSerror
Bit 11: POSerror
Bit 12: LastPosValid : Position from the previous cycle is valid.
Bit 13: VRTerror
Bit 14: SUM
Bit 15: InterruptOnlineStatus

Diagnostic code	Class	Type	Standard reaction	Reset
0x7320 (29472_{dez})	Error	Feedback error	Open loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions

0x7380 | [SG], [SL]: HpfDsl: Encoder start sequence failed, Id=0xXX, Arg=0xXX

The start sequence of the encoder processing failed:

Id=0x01: Encoder start failed with internal error (see 'Arg')
Id=0x0A: Check of the edge register failed (Arg=edge count)
Id=0x0B: Check of the summary register failed (Arg=summary register)
Id=0x0C: Internal error (Arg=internal exit)
Id=0x0D: File processing error (Arg=internal exit)
Id=0x0E: Invalid encoder resolution (Arg=enc resolution)
Id=0x0F: Invalid encoder range (Arg=enc range)
Id=0x10: Error in start sequence step (Arg=step number)
Id=0x11: Supply voltage could not be enabled. The encoder resistance is too low. (Arg=resistance in Ohm)
Id=0x12: Position processing init error.
Id=0x13: Encoder status register [3..0]. Arg=status reg [3..0]
Id=0x14: Encoder status register [7..4]. Arg=status reg [7..4]
Id=0x20: Invalid encoder status register 0..Arg= high word =mask, low word status reg 0
Id=0x21: Invalid encoder status register 1. Arg= high word =mask, low word status reg 1
Id=0x22: Invalid encoder status register 2..Arg= high word =mask, low word status reg 2
Id=0x23: Invalid encoder status register 3. Arg= high word =mask, low word status reg 3
Id=0x24: Invalid encoder status register 4. Arg= high word =mask, low word status reg 4
Id=0x25: Invalid encoder status register 5. Arg= high word =mask, low word status reg 5
Id=0x26: Invalid encoder status register 6. Arg= high word =mask, low word status reg 6
Id=0x27: Invalid encoder status register 7. Arg= high word =mask, low word status reg 7
Id=0x28: The encoder type signals an error (Arg=encoder type)
Id=0x29: The encoder type not supported (Arg=encoder type)
Id=0x2A: The encoder type is HF2DSL but no RID 0x90 (Arg=encoder type)
Id=0x2B: Init non binary encoder failed. The position isn't valid. (Arg=internal enc status)
Id=0x2C: Init non binary encoder failed. (Arg=internal id)
Id=0x2D: Init non binary encoder failed. Missing fpga support. (Arg=encoder type)
Id=0x2E: Invalid increments per turn
Id=0x2F: System periods and resolution invalid
Id=0x30: Linear encoder configured but a rotational one is connected
Id=0x31: Rotary encoder configured but a linear one is connected
Id=0x32: Singleturn bit error
Id=0x33: Internal SHub command list error
Id=0x34: Start sequence monitoring alert
Id=0x35: Position processing initialization failed
Id=0x36: The resolution is 0

Diagnostic code	Class	Type	Standard reaction	Reset
0x7380 (29568_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x7381 | [SG], [SL]: HpfDsl: Encoder shutdown failed, Id=0xXX, Arg=0xXX

The stop sequence of the encoder failed:

Id=0x01: Encoder stop failed with internal error (see 'Arg')
Id=0x02: Encoder stop failed. The link isn't down. (Arg=internal status)

Diagnostic code	Class	Type	Standard reaction	Reset
0x7381 (29569_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x7382 | [SG], [SL]: HpfDsl: Parameter access error, Id=0xXX, Cmd=II, RID=0xXX, Offset=II, Len=II, LongMsgErrorCode=0xXX

Encoder parameter access error:

Id=0x01..0x08: Internal error
Id=0x09: Error while accessing RID, see 'Long message error codes'

Long message error codes:
0x4010 Resource address not installed in the encoder
0x4011 Incorrect length for resource access given
0x4012 Incorrect length for direct resource access given
0x4013 Offset address too high
0x4014 Invalid offset address
0x4015 Invalid "long message" characteristic
0x4016 Missing offset address
0x4110 Write access not possible
0x4111 Read access not possible
0x4112 Write access denied
0x4113 Read access denied
0x4114 Write access for direct resource access denied
0x4210 Resource database entry damaged
0x4211 Time overrun during resource access
0x4212 Internal processing error during resource access
0x4311 File name was not found
0x4312 Invalid address for file access
0x4313 File size may not be altered
0x4314 Memory location for files full
0x4315 File allocation table damaged
0x4316 No file loaded for action
0x4317 File exists with the same name

Diagnostic code	Class	Type	Standard reaction	Reset
0x7382 (29570_{dez})	Error	Feedback error	Nc handling	Execute Reset-Command (Fault reset).

0x7383 | [SG], [SL]: HpfDsl: Internal error, Id=0xXX, Arg=0xXX

Id=0x01: Internal version check failed:
Arg=0x1: Invalid IpCore register layout
Arg=0x2: Invalid IpCore version
Arg=0x3: No line error counter available.
Arg=0x4: No Safety-IpCore
Id=0x02: Internal error:
Arg: Internal error code
Id=0x03: Internal error:
Arg: Internal error code
Id=0x04: Internal error:
Arg: Internal error code
Id=0x05: Internal error:

Arg: Internal error code
Id=0x06: Encoder voltage check error (request to the safety option):
Arg: Internal error code

Diagnostic code	Class	Type	Standard reaction	Reset
0x7383 (29571$_{dez}$)	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x7384 | [SG], [SL]: HpfDsl: Cyclic monitoring error, Id=0xXX, Arg=0xXX

Encoder status check:

Id=0x09: Too many errors on the parameter data channel . Arg='Error cnt'
Id=0x0A: Internal error
Id=0x10: Encoder status 0 check failed: Arg= HighWord='Mask', LowWord=EncST0
Id=0x11: Encoder status 1 check failed: Arg= HighWord='Mask', LowWord=EncST1
Id=0x12: Encoder status 2 check failed: Arg= HighWord='Mask', LowWord=EncST2
Id=0x13: Encoder status 3 check failed: Arg= HighWord='Mask', LowWord=EncST3
Id=0x14: Encoder status 4 check failed: Arg= HighWord='Mask', LowWord=EncST4
Id=0x15: Encoder status 5 check failed: Arg= HighWord='Mask', LowWord=EncST5
Id=0x16: Encoder status 6 check failed: Arg= HighWord='Mask', LowWord=EncST6
Id=0x17: Encoder status 7 check failed: Arg= HighWord='Mask', LowWord=EncST7

Diagnostic code	Class	Type	Standard reaction	Reset
0x7384 (29572$_{dez}$)	Error	Feedback error	Nc handling	Execute Reset-Command (Fault reset).

0x7385 | [SG], [SL]: HpfDsl: Encoder file processing, Id=0xXX, WarnArg=0xXX

File processing warning:
Id=0x1: Found no electronic data sheet
Id=0x2: The file item (Arg) isn't found
Id=0x3: Internal error

Diagnostic code	Class	Type	Standard reaction	Reset
0x7385 (29573$_{dez}$)	Warning	Warning	No	Warning: No reset required.

0x7386 | [SG], [SL]: HpfDsl: Found no encoder (No link to an encoder)!

The HpfDSL master indicates no communication link to an encoder (motor feedback system).

Diagnostic code	Class	Type	Standard reaction	Reset
0x7386 (29574$_{dez}$)	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
No physical encoder connection.	Check and fix the encoder connection.

0x7387 | [SG], [SL]: HpfDsl: The encoder doesn't meet the specified policies. Resolutionpolicy=II [Encoder=II, Requirement=II], Rangepolicy=II [Encoder=II, Requirement=II]

The encoder doesn't meet the specified policies. See objects 'encoder policies' and 'encoder info'.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7387 (29575$_{dez}$)	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The connected encoder does not meet the configured encoder policies (resolution and/or range).	Check the 'encoder policies' and 'encoder info' objects and use an encoder that meets the requirements.

0x7388 | [SG], [SL]: HpfDsl: Encoder power off (triggered from SafeCu), Id=0xXX, Arg=0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x7388 (29576_{dez})	Error	Feedback error	Shorted coils brake	Execute Reset-Command (Fault reset).

0x7389 | [SG], [SL]: HpfDsl: Encoder interface resistance check failed. Measured resistance is too low! R=ll Ohm

Diagnostic code	Class	Type	Standard reaction	Reset
0x7389 (29577_{dez})	Error	Feedback error	Shorted coils brake	Execute Reset-Command (Fault reset).

0x738A | Loaded fpga is not verified.

Full text of the message displayed in the TwinCAT System Manager:
(0x738A) [SG], [SL]: HpfDsl: Found no verification code for the loaded fpga.

Diagnostic code	Class	Type	Standard reaction	Reset
0x738A (29578_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
The loaded fpga is not 'Safe-Motion' verified.	Use a release firmware version.

0x738B | [SG], [SL]: HpfDsl: Internal warning! The error inducer is available.

Diagnostic code	Class	Type	Standard reaction	Reset
0x738B (29579_{dez})	Warning	Warning	No	Warning: No reset required.

0x738C | [SG], [SL]: HpfDsl: Encoder seems to be offline for UU cycles. (InternalDbg: UU)

The drive received no data bits from the encoder for N cycles.

Diagnostic code	Class	Type	Standard reaction	Reset
0x738C (29580_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x738D | [SG], [SL]: HpfDsl: Invalid encoder parameter, see SubIdx UU

The CoE encoder parameter (SubIdx xxx) is invalid.

Diagnostic code	Class	Type	Standard reaction	Reset
0x738D (29581_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x738E | [SG], [SL]: HpfDsl: Encoder file processing error, FileId=0xXX, Arg=0xXX

An error occurred during processing the encoder file.
FileId:
0x01 = Electronic Data Sheet File
0x02 = User Data File
0x03 = Position Offset File
0x04 = Commutation Offset File

0x05 = Cogging Compensation Coefficients File
Arg:
0x01 = No File Header Existing
0x02 = File Size Error
0x03 = File Size Not Aligned
0x04 = Invalid File Header Error 1
0x05 = Invalid File Header Error 2
0x06 = Invalid File Header Error 3
0x07 = Invalid File Header Crc1
0x08 = Invalid File Header Crc2
0x10 = Invalid Vendor Key

Diagnostic code	Class	Type	Standard reaction	Reset
0x738E (29582$_{dez}$)	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x738F | [SG], [SL]: HpfDsl: SafeCU monitored encoder status flag is set! The next fault reset triggers an encoder restart. EncST7..4=0xXX, EncST3..0=0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x738F (29583$_{dez}$)	Warning	Warning	No	Warning: No reset required.

0x7390 | [SG], [SL]: HpfDsl: Status dump, Encoder Status after llms: Summary=0xXX, Regs 7..4=0xXX, Regs 3..0=0xXX

Content of the encoder status regs 0x47...0x44 and 0x43..0x40.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7390 (29584$_{dez}$)	Error	Feedback error	Shorted coils brake	Execute Reset-Command (Fault reset).

0x7391 | [SG], [SL]: HpfDsl: Status dump, Max occurred position deviation=UU mdeg

Diagnostic code	Class	Type	Standard reaction	Reset
0x7391 (29585$_{dez}$)	Error	Feedback error	Shorted coils brake	Execute Reset-Command (Fault reset).

0x7392 | [SG], [SL]: HpfDsl: Status dump, Error counter VPOS=UU, ACC=UU, VRT=UU, POS=UU, LINK=UU, Encoding=UU

Diagnostic code	Class	Type	Standard reaction	Reset
0x7392 (29586$_{dez}$)	Error	Feedback error	Shorted coils brake	Execute Reset-Command (Fault reset).

0x7393 | [SG], [SL]: HpfDsl: A safety error condition is blocking the encoder voltage.

The HpfDsl encoder couldn't be started because the encoder voltage is forced off by the safety logic.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7393 (29587$_{dez}$)	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A safety error is present.	Check and clear the safety error.

0x7394 | [SG], [SL]: HpfDsl: An overload or an open load state is detected on the 2WireInterface.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7394 (29588_{dez})	Warning	Warning	No	Warning: No reset required.

0x7395 | [SG], [SL]: HpfDsl: The encoder start sequence was aborted. Id=0xXX, Arg=0xXX

The start sequence of the encoder processing was aborted:

Id=0x01: An EtherCAT state request to PreOp or Init aborted the encoder start in step (see 'Arg')

Diagnostic code	Class	Type	Standard reaction	Reset
0x7395 (29589_{dez})	Warning	Warning	No	Warning: No reset required.

0x73C0 | [SG], [SL]: EnDat22: Encoder error (position invalid), Id=0xXX, Arg=0xXX

The encoder position (first feedback) is invalid:

Id=1: Got no valid position from the EnDat-Ip-Core. Arg = 'Internal status word'

'Internal status word':
Bit 0: PositionReady : The position is ready to use.
Bit 1: PositionTimeout : Timeout exceeded.
Bit 2: EnDatSt_Error1 : The EnDat-IpCore signals Error 1
Bit 3: EnDatSt_Crc : The EnDat-IpCore signals an Crc-Error
Bit 4: EnDatSt_ErrorHandlerType1active
Bit 5: EnDatSt_ErrorHandlerType2active
Bit 6: EnDatSt_MrsAdrError
Bit 7: EnDatSt_NotError2 : The EnDat-IpCore signals NOT Error 2
Bit 8: EnDatSt_CrcErrorZ1 : The EnDat-IpCore signals an Crc-Error for the 'Additional Data 1'
Bit 9: EnDatSt_CrcErrorZ2 : The EnDat-IpCore signals an Crc-Error for the 'Additional Data 2'
Bit 10: EnDatSt_ReferenceLatched
Bit 11: EnDatSt_Warning
Bit 12: EnDatSt_ErrorHandlerType3active
Bit 13: rsvd
Bit 14: rsvd
Bit 15: rsvd

Diagnostic code	Class	Type	Standard reaction	Reset
0x73C0 (29632_{dez})	Error	Feedback error	Open loop ramp	Execute Reset-Command (Fault reset).

0x73C1 | [SG], [SL]: EnDat22: Encoder error (position invalid), Id=0xXX, Arg=0xXX

The encoder position (second feedback) is invalid:

Id=1: Got no valid position from the EnDat-Ip-Core. Arg = 'Internal status word'

'Internal status word':
See error code description 0x73C0

Diagnostic code	Class	Type	Standard reaction	Reset
0x73C1 (29633_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x73C2 | [SG], [SL]: EnDat22: Encoder start failed, Id=0xXX, Arg=0xXX

The start sequence of the encoder processing failed:

Id=0x01: Encoder start failed with internal error code (Arg='Internal error code')

Id=0x08: Encoder file processing error. Arg=Internal Id
Id=0x0C: Encoder start failed. Start sequence aborted in step = 'Arg'
Id=0x0D: Encoder start failed. Arg=1: Pointer not allocated, Arg=2: Invalid Fpga, Arg=3: Internal error, Arg=4: MeasuringStepsPerRev or MeasuringStepLength == 0, Arg=5: Internal error, Arg=6: Init position processing failed, Arg=7: MeasuringStepsPerRev or MeasuringStepLength == 0
Id=0x0E: Invalid 'Measuring step length'

Diagnostic code	Class	Type	Standard reaction	Reset
0x73C2 (29634_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions

0x73C3 | [SG], [SL]: EnDat22: Encoder shutdown failed, Id=0xXX, Arg=0xXX

The shutdown sequence of the encoder failed:

Id=0x01: Encoder stop failed with internal error code (Arg='Internal error code')

Diagnostic code	Class	Type	Standard reaction	Reset
0x73C3 (29635_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x73C4 | [SG], [SL]: EnDat22: Parameter access error, Id=0xXX, Cmd=II, Addr=0xXX, Len=II, Data=0xXX, FifoStatus=0xXX

Parameter access failed.

Id=1: Fifo reset timeout occurred.
Id=6: Fifo error
Id=7: Fifo timeout
Id=8: Fifo not empty

Diagnostic code	Class	Type	Standard reaction	Reset
0x73C4 (29636_{dez})	Error	Feedback error	Nc handling	Execute Reset-Command (Fault reset).

0x73C5 | [SG], [SL]: EnDat22: Internal error, Id=0xXX, Arg=0xXX

Internal error!

Id=2: Invalid value (Arg=value)
Id=3: Invalid value (Arg=value)
Id=6: Resource allocation failed (Arg= 'Internal state')

Diagnostic code	Class	Type	Standard reaction	Reset
0x73C5 (29637_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x73C6 | [SG], [SL]: EnDat22: Cyclic monitoring error, Id=0xXX, Arg=0xXX

Cyclic encoder status check:

Id=0x01: Internal error
Id=0x05: Too many errors while reading the status data. Arg='Error cnt'

Diagnostic code	Class	Type	Standard reaction	Reset
0x73C6 (29638_{dez})	Error	Feedback error	Nc handling	Execute Reset-Command (Fault reset).

0x73C7 | [SG], [SL]: EnDat22: Encoder file processing, Id=0xXX, WarnArg=0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x73C7 (29639_{dez})	Warning	Warning	No	Warning: No reset required.

0x73C8 | [SG], [SL]: EnDat22: Encoder policy check (steps per revolution) failed, Enc=UU, PolicyValue=UU

Diagnostic code	Class	Type	Standard reaction	Reset
0x73C8 (29640_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x73C9 | [SG], [SL]: EnDat22: Encoder policy check (distinguishable revolutions) failed, Enc=UU, PolicyValue=UU

Diagnostic code	Class	Type	Standard reaction	Reset
0x73C9 (29641_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x73CA | [SG], [SL]: EnDat22: Encoder policy check (step length) failed, Enc=0xXXXX, PolicyValue=0xXXXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x73CA (29642_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x73CB | [SG], [SL]: EnDat22: Encoder policy check (measuring length) failed, Enc=0xXXXX, PolicyValue=0xXXXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x73CB (29643_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x73CC | [SG], [SL]: EnDat22: The multiturn part of the transferred position value is not reliable, Id=0xXX, Arg=0xXX

Id=0x1: The 'operating status error sources' displays an multiturn error 1. Arg='OpStatErrSrc'

'OpStatErrSrc':
Bit 0: LightSource
Bit 1: SignalAmplitude
Bit 2: SPos1
Bit 3: Overvoltage
Bit 4: Undervoltage
Bit 5: Overcurrent
Bit 6: TemperatureExceeded
Bit 7: SPos2
Bit 8: SSystem
Bit 9: SAllPowerDown
Bit 10: MPos1 : An M Pos 1 error message signals that the multiturn scanning or processing of the multiturn position has failed during encoder operation. The multiturn part of the transferred position value is not reliable under these conditions. Corrective measure: The consistency of the revolution counter value must be checked. If this is not possible, the axis must be referenced.
Bit 11: MPos2
Bit 12: MSystem : An M System error message signals that a multiturn-related internal error during the initialization phase of the encoder has occurred. The multiturn part of the transferred position value is not reliable under these conditions. Corrective measure: The power-on cycle should be repeated. If this also fails, a hardware problem of the encoder is probable. The consistency of the revolution counter value must also be checked.
Bit 13: MPowerFailure : The M Power failure error message signalizes that both the voltage of the buffer

battery (UBAT) and the main supply voltage (UP) have fallen below the defined limit values. The subsequent electronics can only read out this error message when the main voltage supply has been restored. The multiturn part of the transferred position value is not defined and therefore faulty. During the M Power failure state there is no revolution counting. The possibly simultaneously occurring error messages M Pos 1, M System and M Overflow are to be ignored. Corrective measure: The axis must be referenced again.
Bit 14: MOverflow : The M Overflow error message signals that the specified (multiturn) counting range of the encoder has been exceeded. The encoder remains fully functional. M Overflow error messages can only be cleared when the multiturn value is again in the specified counting range. Corrective measure: Bring the axis into the specified counting range of the encoder again and clear error messages according to the EnDat specification.
Bit 15: MBattery

Diagnostic code	Class	Type	Standard reaction	Reset
0x73CC (29644_{dez})	Error	Feedback error	Axis is inoperable	Execute Extended Reset-Command (Fault reset with 'Unlock extended fault reset' Parameter).

0x73CD | [SG], [SL]: EnDat22: Encoder power off (SafeCu global shutdown), Id=0xXX, Arg=0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x73CD (29645_{dez})	Error	Feedback error	Shorted coils brake	Execute Reset-Command (Fault reset).

0x73CE | [SG], [SL]: EnDat22: Found no encoder (No link to an encoder)!

The EnDat22 master indicates no communication link to an encoder (motor feedback system).

Diagnostic code	Class	Type	Standard reaction	Reset
0x73CE (29646_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
No physical encoder connection.	Check and fix the encoder connection.

0x73CF | [SG], [SL]: EnDat22: The encoder position is received later than expected! Increase the wait time by IIns.

Diagnostic code	Class	Type	Standard reaction	Reset
0x73CF (29647_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
The encoder calculation time seems to be longer than stated in the 'Maximum calculation time' register.	Please contact the encoder manufacturer

0x73D0 | [SG], [SL]: EnDat22: An 'extended reset' has triggered the reinitialization of the multiturn part of the transferred position, Id=0xXX, Arg=0xXX

Id=0x1: The multiturn error was cleared. Arg='OpStatErrSrc' See 0x73CC

Diagnostic code	Class	Type	Standard reaction	Reset
0x73D0 (29648_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
An 'extended reset' triggered reinitialization of the multiturn position; the previous multiturn error was cleared.	No action required. Verify the absolute position after the extended reset.

0x73D1 | [SG], [SL]: EnDat22: User setting forces ignoring of incompatible encoder parameter. [MemRange II, Word II]

Diagnostic code	Class	Type	Standard reaction	Reset
0x73D1 (29649_{dez})	Warning	Warning	No	Warning: No reset required.

0x73D2 | [SG], [SL]: EnDat22: Incompatible encoder parameter [MemRange II, Word II] ignored or modified!

Diagnostic code	Class	Type	Standard reaction	Reset
0x73D2 (29650_{dez})	Warning	Warning	No	Warning: No reset required.

0x73D3 | [SG], [SL]: EnDat22: The encoder is incompatible. See MemRange II, Word II

Diagnostic code	Class	Type	Standard reaction	Reset
0x73D3 (29651_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The connected encoder isn't compatible to the EnDat2.2 mode with 8MHz.	Use a different encoder model.

0x73D4 | Loaded fpga is not verified.

Full text of the message displayed in the TwinCAT System Manager:
(0x73D4) [SG], [SL]: EnDat22: Found no verification code for the loaded fpga.

Diagnostic code	Class	Type	Standard reaction	Reset
0x73D4 (29652_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
The loaded fpga is not 'Safe-Motion' verified.	Use a release firmware version.

0x73D5 | [SG], [SL]: EnDat22: Select safety cycle content failed, Id=0xXX, Arg=0xXX

Cyclic encoder status check:

Id=0x01: Too many errors while selecting the safety cycle content. Arg='Error cnt'

Diagnostic code	Class	Type	Standard reaction	Reset
0x73D5 (29653_{dez})	Error	Feedback error	Nc handling	Execute Reset-Command (Fault reset).

0x73D6 | [SG], [SL]: EnDat22: Internal warning! The error inducer is available.

Diagnostic code	Class	Type	Standard reaction	Reset
0x73D6 (29654_{dez})	Warning	Warning	No	Warning: No reset required.

0x73D7 | [SG], [SL]: EnDat22: The encoder doesn't support the selected valuation addresses, Supported=0xXX, Configured=0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x73D7 (29655_{dez})	Error	Feedback error	Nc handling	Execute Reset-Command (Fault reset).

0x73D8 | [SG], [SL]: EnDat22: The selected valuations could not be read.

Diagnostic code	Class	Type	Standard reaction	Reset
0x73D8 (29656_{dez})	Warning	Warning	No	Warning: No reset required.

0x73D9 | [SG], [SL]: EnDat22: User setting forces a encoder start in the EnDat21 mode only! The 'position actual value' isn't available!

Diagnostic code	Class	Type	Standard reaction	Reset
0x73D9 (29657_{dez})	Warning	Warning	No	Warning: No reset required.

0x73DA | [SG], [SL]: EnDat3: Encoder file processing error, FileId=0xXX, Arg=0xXX

An error occurred during processing the encoder file.
FileId:
0x01 = Electronic Data Sheet File
0x02 = User Data File
0x03 = Position Offset File
0x04 = Commutation Offset File
0x05 = Cogging Compensation Coefficients File
Arg:
0x01 = No File Header Existing
0x02 = File Size Error
0x03 = File Size Not Aligned
0x04 = Invalid File Header Error 1
0x05 = Invalid File Header Error 2
0x06 = Invalid File Header Error 3
0x07 = Invalid File Header Crc1
0x08 = Invalid File Header Crc2
0x10 = Invalid Vendor Key

Diagnostic code	Class	Type	Standard reaction	Reset
0x73DA (29658_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x73DB | [SG], [SL]: EnDat22: The encoder start sequence was aborted. Id=0xXX, Arg=0xXX

The start sequence of the encoder processing was aborted:

Id=0x01: An EtherCAT state request to PreOp or Init aborted the encoder start in step (see 'Arg')

Diagnostic code	Class	Type	Standard reaction	Reset
0x73DB (29659_{dez})	Warning	Warning	No	Warning: No reset required.

0x73FF | [SG], [SL]: EnDat22: Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic code	Class	Type	Standard reaction	Reset
0x73FF (29695_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x7780 | [SG], [SL]: SimulationEnc: Encoder simulation is not supported for the selected motor type. (ModuleIdent 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x7780 (30592_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
The selected module in the motor slot is not supported for encoder simulation.	Select another encoder type or no encoder.

0x77BF | [SG], [SL]: SimulationEnc: Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic code	Class	Type	Standard reaction	Reset
0x77BF (30655_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x77C0 | [SG], [SL]: BiSS-C: Encoder error (position invalid), Id=0xXX, Arg=0xXX

The encoder could not transmit a valid position.
Id=0x%01: Position status signals an error. Arg='Position Status'

'Position Status'
Bit 0: ChannelEnable
Bit 1: Error, Internal error occurred, reported by ic-haus IPCore.
Bit 2: PosReady, Position received and shifted, ready to be read by drive.
Bit 3: EncReady, Set once the ic-haus IPCore has been set up and is running. No evaluation of encoder's answers or correctness of configuration.
Bit 4: LastPosValid, Position in last communication cycle was valid.
Bit 5: PosValid, Combined evaluation of Bits -Error (Bit 1 of this status) -nAGSError (Bit 9 of this status) -Position valid from ic-haus core (position received, CRC validated, Bit 12 of this status) -nSCDError (Bit 8 of this status)
Bit 6: REGEND, Register Communication, not used
Bit 7: nREGERR, Register Communication, not used
Bit 8: nSCDERR , An error in the single cycle data detected by checksum verification (CRC) is shown with nSCDERR. If a sensor data error is signaled, the faulty sensor can be verified by reading SVALIDx. The nSCDERR flag is set after power on and after executing INIT.
Bit 9: nAGSERR, An AGS watchdog error nAGSERR is set during the automatic transmission of sensor data enabled by the instruction bit AGS if no new cycle could be initiated. If the last BiSS frame has not been finished in time, the next BiSS frame will be omitted. The following BiSS frame will be executed if possible. The nAGSERR flag is set when resetting the instruction bit AGS (typically by writing BREAK into the instruction register. (We do not use AGS, but the signal is misbehaving sometimes)
Bit 10: EOT, End Of Transmission, no encoder communication currently active
Bit 11: SLO_line_state, Current Status of SL, directly measured at the line, no core required.
Bit 12: SVALID1, The CRC verification result of the received single cycle sensor data of every BiSS frame is written to the validity message register SVALID for each slave separately. If the CRC is disabled in the slave configuration the correspondent SVALID flag is set after the reading of the sensor data is complete. After reading the sensor data, it is recommended to reset the validity flags by writing to the SVALID register. This way, it is possible to recognize updated sensor data.
Bit 13: rsvd : 1;
Bit 14: SenseData0, Bit 0 of received data, should be ENCODER WARNING in all BiSS-C encoders.
Bit 15: SenseData1, Bit 1 of received data, should be ENCODER ERROR in all BiSS-C encoders.

Diagnostic code	Class	Type	Standard reaction	Reset
0x77C0 (30656_{dez})	Error	Feedback error	Open loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Several causes, such as incorrect parameters or incorrect encoder connection to device.	Check encoder status in the parameter list (Encoder actual values)

0x77C1 | [SG], [SL]: BiSS-C: Encoder error (position invalid), Id=0xXX, Arg=0xXX

The secondary encoder could not transmit a valid position.
Description see error 0x77C0!

Diagnostic code	Class	Type	Standard reaction	Reset
0x77C1 (30657_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Several causes, such as incorrect parameters or incorrect encoder connection to device.	Check encoder status in the parameter list (Encoder actual values)

0x77C2 | [SG], [SL]: BiSS-C: Encoder start failed, Id=0xXX, Arg=0xXX

The Encoder could not start because of wrong parameter settings.

Id=0x1: Internal error code.
Id=0x2: The sum of single- and multiturn-bits is greater 40. Arg='SumOfBits'
Id=0x3: Sum of data bits is greater than 64. Arg='SumOfBits'

Diagnostic code	Class	Type	Standard reaction	Reset
0x77C2 (30658_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Singleturn bit count plus Multiturn bit count is greater than 40	This combination is not supported yet.
Sum of Position bit count, Fill bit left and Fill bit right is out of permissible range.	Max data bitcount of 64 is allowed.
Sum of Singleturn bit, Multiturn bit, Fill bit left and Fill bit is right out of permissible range.	Max data bitcount of 64 is allowed.
A previous error causes this error.	Fix all previous errors.

0x77C3 | [SG], [SL]: BiSS-C: Encoder shutdown failed, Id=0xXX, Arg=0xXX

The encoder shutdown failed with an internal error.

Diagnostic code	Class	Type	Standard reaction	Reset
0x77C3 (30659_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x77C4 | [SG], [SL]: BiSS-C: Internal error, Id=0xXX, Arg=0xXX

Internal Error.

Diagnostic code	Class	Type	Standard reaction	Reset
0x77C4 (30660_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x77C5 | [SG], [SL]: BiSS-C: Cyclic monitoring error, Id=0xXX, Arg=0xXX

Internal Error.

Diagnostic code	Class	Type	Standard reaction	Reset
0x77C5 (30661_{dez})	Error	Feedback error	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x77C6 | [SG], [SL]: BiSS-C: Encoder warning active, Id=0xXX, Arg=0xXX

Encoder warning active.

Diagnostic code	Class	Type	Standard reaction	Reset
0x77C6 (30662_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
There can be several reasons for this warning.	Check encoder status in the parameter list (Encoder actual values)

0x77C7 | [SG], [SL]: BiSS-C: Parameter error in object 0xXX/XX

The mentioned parameter contains a not accepted value.

Diagnostic code	Class	Type	Standard reaction	Reset
0x77C7 (30663_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Something is wrong with the parameters in this object.	Please check the parameters of the mentioned object.

0x77C8 | [SG], [SL]: BiSS-C: The encoder start sequence was aborted. Id=0xXX, Arg=0xXX

The start sequence of the encoder processing was aborted:

Id=0x01: An EtherCAT state request to PreOp or Init aborted the encoder start in step (see 'Arg')

Diagnostic code	Class	Type	Standard reaction	Reset
0x77C8 (30664_{dez})	Warning	Warning	No	Warning: No reset required.

0x77FF | [SG], [SL]: BiSS-C: Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic code	Class	Type	Standard reaction	Reset
0x77FF (30719_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x7880 | [SG], [SL]: EnDat3: Encoder error (position invalid), HPFstatus: F(0)=UU, HPFV(1)=UU, ERR_REQ(0)=UU, valid(1)=UU; ShortStatus: TrmErr(0)=UU (0xXX)

The encoder position (first feedback) is invalid!

Diagnostic code	Class	Type	Standard reaction	Reset
0x7880 (30848_{dez})	Error	Feedback error	Open loop ramp	Execute Reset-Command (Fault reset).

0x7881 | [SG], [SL]: EnDat3: Encoder error (position invalid), HPFstatus: F(0)=UU, HPFV(1)=UU, ERR_REQ(0)=UU, valid(1)=UU; ShortStatus: TrmErr(0)=UU (0xXX)

The encoder position (second feedback) is invalid!

Diagnostic code	Class	Type	Standard reaction	Reset
0x7881 (30849_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x7882 | [SG], [SL]: EnDat3: Encoder error (position invalid), ForegroundErrorCode=0xXX

The encoder position (first feedback) is invalid!

Diagnostic code	Class	Type	Standard reaction	Reset
0x7882 (30850_{dez})	Error	Feedback error	Open loop ramp	Execute Reset-Command (Fault reset).

0x7883 | [SG], [SL]: EnDat3: Encoder error (position invalid), ForegroundErrorCode=0xXX

The encoder position (second feedback) is invalid!

Diagnostic code	Class	Type	Standard reaction	Reset
0x7883 (30851_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x7884 | [SG], [SL]: EnDat3: Encoder error (position invalid), HPFvalid(1)=UU; ShortStatus: TrmError(0)=UU, HPFF(0)=UU (0xXX)

The encoder position (first feedback) is invalid!

Diagnostic code	Class	Type	Standard reaction	Reset
0x7884 (30852_{dez})	Error	Feedback error	Open loop ramp	Execute Reset-Command (Fault reset).

0x7885 | [SG], [SL]: EnDat3: Encoder error (position invalid), HPFvalid(1)=UU; ShortStatus: TrmError(0)=UU, HPFF(0)=UU (0xXX)

The encoder position (first feedback) is invalid!

Diagnostic code	Class	Type	Standard reaction	Reset
0x7885 (30853_{dez})	Error	Feedback error	Open loop ramp	Execute Reset-Command (Fault reset).

0x7886 | [SG], [SL]: EnDat3: Encoder error (position invalid), FGstatus: HPFF(0)=UU, CSerr(0)=UU, PhyErr(0)=UU, WDerr(0)=UU, StrobeErr(0)=UU (0xXX)

The encoder position (first feedback) is invalid!

Diagnostic code	Class	Type	Standard reaction	Reset
0x7886 (30854_{dez})	Error	Feedback error	Open loop ramp	Execute Reset-Command (Fault reset).

0x7887 | [SG], [SL]: EnDat3: Encoder error (position invalid), FGstatus: HPFF(0)=UU, CSerr(0)=UU, PhyErr(0)=UU, WDerr(0)=UU, StrobeErr(0)=UU (0xXX)

The encoder position (first feedback) is invalid!

Diagnostic code	Class	Type	Standard reaction	Reset
0x7887 (30855_{dez})	Error	Feedback error	Open loop ramp	Execute Reset-Command (Fault reset).

0x7888 | [SG], [SL]: EnDat3: Encoder start failed, Id=0xXX, Arg=0xXX

The start sequence of the encoder processing failed:

Id=0x01: Encoder start failed with internal error code Arg='Internal error code'
Id=0x02: Could not read EL size. Arg='Internal error code'
Id=0x03: XEL size error. Arg='Internal error code'
Id=0x04: No battery buffered multiturn encoder support. Arg='Internal error code'
Id=0x05: Position offset used but not supported. Arg='Internal error code'
Id=0x06: Invalid bits used in XSET offset pos. Arg='Internal error code'
Id=0x08: Encoder file processing error. Arg=Internal Id
Id=0x0C: Encoder start failed. Start sequence aborted in step = 'Arg'
Id=0x0D: Encoder start failed. Arg=1: Pointer not allocated, Arg=2: Invalid Fpga, Arg=3: Internal error, Arg=4: MeasuringStepsPerRev or MeasuringStepLength == 0, Arg=5: Internal error, Arg=6: Init position processing failed, Arg=7: MeasuringStepsPerRev or MeasuringStepLength == 0
Id=0x11: The measured 'encoder' resistance connected to the TwoWireInterface is too low. Arg=Measured resistance in Ohm
Id=0x12: POS1 is not supported in the HPF

Diagnostic code	Class	Type	Standard reaction	Reset
0x7888 (30856_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions

0x7889 | [SG], [SL]: EnDat3: Encoder shutdown failed, Id=0xXX, Arg=0xXX

The shutdown sequence of the encoder failed:

Id=0x01: Encoder stop failed with internal error code (Arg='Internal error code')

Diagnostic code	Class	Type	Standard reaction	Reset
0x7889 (30857_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x788A | [SG], [SL]: EnDat3: Parameter access error, hr=0xXX, BGreq=II, ErrorCode=0xXX, Data=0xXX, 0xXX

Parameter access failed.

Diagnostic code	Class	Type	Standard reaction	Reset
0x788A (30858_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x788B | [SG], [SL]: EnDat3: Internal error, Id=0xXX, Arg=0xXX

Internal error!

Id=0x01: Invalid E3MasterInfo
Id=0x02: Invalid value1 (Arg=value)
Id=0x03: Invalid value2 (Arg=value)
Id=0x04: Invalid value3 (Arg=value)
Id=0x05: Invalid value4 (Arg=value)
Id=0x06: Resource allocation failed (Arg='Internal state')
Id=0x08: Monitoring error: Master edge cnt (Arg=Cnt)
Id=0x09: Background request: Get response returned an error (Arg=Internal error code)
Id=0x0A: Background request: Start returned an error (Arg=Internal error code)
Id=0x0B: Encoder voltage enable error (Arg=Internal error code)
Id=0x0C: Unknown temperature sensor id (Arg= high word: TempSensorId from elec. data sheet, low word: TempSensorId from CoE)
Id=0x0D: Invalid temperature sensor id (Arg= TempSensorId)
Id=0x0E: Encoder does not support the temperature sensor id (Arg= TempSensorId)
Id=0x0F: Temperature sensor id activation failed (Arg= TempSensorId)

Diagnostic code	Class	Type	Standard reaction	Reset
0x788B (30859_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x788C | [SG], [SL]: EnDat3: Cyclic monitoring error, Id=0xXX, Arg=0xXX

Cyclic encoder status check:

Id=0x01: Internal error
Id=0x05: Too many errors while reading the status data. Arg='Error cnt'

Diagnostic code	Class	Type	Standard reaction	Reset
0x788C (30860_{dez})	Error	Feedback error	Nc handling	Execute Reset-Command (Fault reset).

0x788D | [SG], [SL]: EnDat3: Encoder start failed, ambiguous motor temperature sensor id, II <> II

The motor temperature sensor id is ambiguous. The id from the electronic data sheet is different to the id from the motor parameter.

Diagnostic code	Class	Type	Standard reaction	Reset
0x788D (30861_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions

0x788E | [SG], [SL]: EnDat3: Encoder policy check (steps per revolution) failed, Enc=UU, PolicyValue=UU

Diagnostic code	Class	Type	Standard reaction	Reset
0x788E (30862$_{dez}$)	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x788F | [SG], [SL]: EnDat3: Encoder policy check (distinguishable revolutions) failed, Enc=UU, PolicyValue=UU

Diagnostic code	Class	Type	Standard reaction	Reset
0x788F (30863$_{dez}$)	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x7890 | [SG], [SL]: EnDat3: Encoder policy check (step length) failed, Enc=0xXXXX, PolicyValue=0xXXXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x7890 (30864$_{dez}$)	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x7891 | [SG], [SL]: EnDat3: Encoder policy check (measuring length) failed, Enc=0xXXXX, PolicyValue=0xXXXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x7891 (30865$_{dez}$)	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x7892 | [SG], [SL]: EnDat3: Encoder interface resistance check failed. Measured resistance is too low! R=II Ohm

Diagnostic code	Class	Type	Standard reaction	Reset
0x7892 (30866$_{dez}$)	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x7893 | [SG], [SL]: EnDat3: Encoder power off (SafeCu global shutdown), Id=0xXX, Arg=0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x7893 (30867$_{dez}$)	Error	Feedback error	Shorted coils brake	Execute Reset-Command (Fault reset).

0x7894 | [SG], [SL]: EnDat3: Found no encoder (No link to an encoder)!

The EnDat3 master indicates no communication link to an encoder (motor feedback system).

Diagnostic code	Class	Type	Standard reaction	Reset
0x7894 (30868$_{dez}$)	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
No physical encoder connection.	Check and fix the encoder connection.

0x7895 | [SG], [SL]: EnDat3: Invalid memory area crc (memory base addr=0xXX).

The EnDat3 memory area crc value is invalid.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7895 (30869$_{dez}$)	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x7896 | [SG], [SL]: EnDat3: An encoder restart is required because the non-volatile encoder settings are modified (addr=0xXX).

The modified settings become active after a encoder restart.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7896 (30870_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x7897 | [SG], [SL]: EnDat3: A safety error condition is blocking the encoder voltage.

The EnDat3 encoder couldn't be started because the encoder voltage is forced off by the safety logic.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7897 (30871_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A safety error is present.	Check and clear the safety error.

0x7898 | Electronic data sheet: No motor temperature sensor id

Full text of the message displayed in the TwinCAT System Manager:
(0x7898) [SG], [SL]: EnDat3: Found no motor temperature sensor id in the electronic data sheet.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7898 (30872_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
The electronic data sheet contains no motor temperature sensor id.	Contact support.

0x7899 | Loaded fpga is not verified.

Full text of the message displayed in the TwinCAT System Manager:
(0x7899) [SG], [SL]: EnDat3: Found no verification code for the loaded fpga.

Diagnostic code	Class	Type	Standard reaction	Reset
0x7899 (30873_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
The loaded fpga is not 'Safe-Motion' verified.	Use a release firmware version.

0x789A | [SG], [SL]: EnDat3: Low priority frame error, SendListEntry x=UU, y=UU, z=UU, LPFstatus=0xXX, FGerrCode=0xXX

'FGerrCode' description:
0x0000 ERR_UNKNOWN The cause of the error is unknown; this code is used if the encoder cannot classify the error
0x0001 FGERR_RECONFIGURE Device is in configuration as a result of RECONFIGURE
0x0002 FGERR_ECHO An ECHO is being responded to
0x0100 FGERR_INVALID_FID An invalid FID was configured Correct the application
0x0101 FGERR_DUPLICATE_FID FID was selected more than once during the cycle
0x0200 FGERR_INVALID_DATA LPF is supported, but invalid data were delivered internally
0x0201 FGERR_INT_TRM LPF is supported but is currently not available (value could not be formed in time)
0x0300 FGERR_NO_SENSOR_DATA Sensor box data not available
0x1100 BGERR_USAGE Generic operator error
0x1101 BGERR_USAGE_OPCODE Operator error: invalid or unsupported command code
0x1102 BGERR_USAGE_ARGUMENTS Operator error: invalid arguments

0x1103 BGERR_USAGE_SEQUENCE Operator error: invalid command sequence
0x1104 BGERR_USAGE_ACCESS_DENIED Operator error: access denied;
0x1105 BGERR_USAGE_MEM_ADDRESS Operator error: access to invalid address
0x1106 BGERR_USAGE_NO_BG Encoder fundamentally does not support background processing
0x1200 BGERR_INTERNAL Generic exception error in the encoder
0x1201 BGERR_INTERNAL_MEMORY Exception error in encoder when accessing memory
0x1202 BGERR_INTERNAL_CONFIG Exception error in encoder: configuration invalid

Diagnostic code	Class	Type	Standard reaction	Reset
0x789A (30874_{dez})	Warning	Warning	No	Warning: No reset required.

0x789B | [SG], [SL]: EnDat3: Invalid memory area crc (memory base addr=0xXX).

The EnDat3 memory area crc value is invalid.

Diagnostic code	Class	Type	Standard reaction	Reset
0x789B (30875_{dez})	Warning	Warning	No	Warning: No reset required.

0x789C | [SG], [SL]: EnDat3: Encoder warning, Status=0xXX, LatchedStatus=0xXX

The encoder warning flag is active.

Diagnostic code	Class	Type	Standard reaction	Reset
0x789C (30876_{dez})	Warning	Warning	No	Warning: No reset required.

0x789D | [SG], [SL]: EnDat3: Encoder status dump, HPFstatus: F(0)=UU, HPFV(1)=UU, ERR_REQ(0)=UU, valid(1)=UU; ShortStatus: TrmErr(0)=UU (0xXX)

The encoder position (first feedback) is invalid!

Diagnostic code	Class	Type	Standard reaction	Reset
0x789D (30877_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x789E | [SG], [SL]: EnDat3: Encoder status dump, ForegroundErrorCode=0xXX

The encoder position (first feedback) is invalid!

Diagnostic code	Class	Type	Standard reaction	Reset
0x789E (30878_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x789F | [SG], [SL]: EnDat3: Encoder status dump, HPFvalid(1)=UU; ShortStatus: TrmError(0)=UU, HPFF(0)=UU (0xXX)

The encoder position (first feedback) is invalid!

Diagnostic code	Class	Type	Standard reaction	Reset
0x789F (30879_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x78A0 | [SG], [SL]: EnDat3: Encoder status dump, FGstatus: HPFF(0)=UU, CSerr(0)=UU, PhyErr(0)=UU, WDerr(0)=UU, StrobeErr(0)=UU (0xXX)

The encoder position (first feedback) is invalid!

Diagnostic code	Class	Type	Standard reaction	Reset
0x78A0 (30880$_{dez}$)	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x78A1 | [SG], [SL]: EnDat3: Encoder seems to be offline for UU cycles. (InternalDbg: UU)

The drive received no data bits from the encoder for N cycles.

Diagnostic code	Class	Type	Standard reaction	Reset
0x78A1 (30881$_{dez}$)	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x78A2 | [SG], [SL]: EnDat3: Encoder start warning, Id=0xXX, Arg=0xXXXX

The start sequence of the encoder processing generates a warning:
Id=0x01: Irrelevant bits are influenced by a datum shift in an unpredictable manner (Arg: XSET.offset_Pos)

Diagnostic code	Class	Type	Standard reaction	Reset
0x78A2 (30882$_{dez}$)	Warning	Warning	No	Warning: No reset required.

0x78A3 | [SG], [SL]: EnDat3: An overload or an open load state is detected on the 2WireInterface.

Diagnostic code	Class	Type	Standard reaction	Reset
0x78A3 (30883$_{dez}$)	Warning	Warning	No	Warning: No reset required.

0x78A4 | [SG], [SL]: EnDat3: Encoder file processing error, FileId=0xXX, Arg=0xXX

An error occurred during processing the encoder file.
FileId:
0x01 = Electronic Data Sheet File
0x02 = User Data File
0x03 = Position Offset File
0x04 = Commutation Offset File
0x05 = Cogging Compensation Coefficients File
Arg:
0x01 = No File Header Existing
0x02 = File Size Error
0x03 = File Size Not Aligned
0x04 = Invalid File Header Error 1
0x05 = Invalid File Header Error 2
0x06 = Invalid File Header Error 3
0x07 = Invalid File Header Crc1
0x08 = Invalid File Header Crc2
0x10 = Invalid Vendor Key

Diagnostic code	Class	Type	Standard reaction	Reset
0x78A4 (30884$_{dez}$)	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

0x78A5 | [SG], [SL]: EnDat3: The encoder start sequence was aborted. Id=0xXX, Arg=0xXX

The start sequence of the encoder processing was aborted:

Id=0x01: An EtherCAT state request to PreOp or Init aborted the encoder start in step (see 'Arg')

Diagnostic code	Class	Type	Standard reaction	Reset
0x78A5 (30885$_{dez}$)	Warning	Warning	No	Warning: No reset required.

0x78BF | [SG], [SL]: EnDat3: Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic code	Class	Type	Standard reaction	Reset
0x78BF (30911_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x78C0 | [SG], [SL]: Inc Enc: Encoder error (position invalid), Id=0xXX, Arg=0xXX

The encoder could not transmit a valid position.
Id=0x%01: Position status signals an error. Arg='Position Status'

'Position Status'
Bit 0: ChannelEnable
Bit 1: Error, Internal error occurred, reported by ic-haus IPCore.
Bit 2: PosReady, Position received and shifted, ready to be read by drive.
Bit 3: EncReady, Set once the ic-haus IPCore has been set up and is running. No evaluation of encoder's answers or correctness of configuration.
Bit 4: LastPosValid, Position in last communication cycle was valid.
Bit 5: PosValid , Combined evaluation of Bits -Error (Bit 1 of this status) -nAGSError (Bit 9 of this status) -Position valid from ic-haus core (position received, CRC validated, Bit 12 of this status) -nSCDError (Bit 8 of this status)
Bit 6:
Bit 7:
Bit 8:
Bit 9:
Bit 10:
Bit 11:
Bit 12:
Bit 13:
Bit 14:
Bit 15:

Diagnostic code	Class	Type	Standard reaction	Reset
0x78C0 (30912_{dez})	Error	Feedback error	Open loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Several causes, such as incorrect parameters or incorrect encoder connection to device.	Check encoder status in the parameter list (Encoder actual values)

0x78C1 | [SG], [SL]: Inc Enc: Encoder error (position invalid), Id=0xXX, Arg=0xXX

The secondary encoder could not transmit a valid position.
Description see error 0x78C0!

Diagnostic code	Class	Type	Standard reaction	Reset
0x78C1 (30913_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Several causes, such as incorrect parameters or incorrect encoder connection to device.	Check encoder status in the parameter list (Encoder actual values)

0x78C2 | [SG], [SL]: Inc Enc: Encoder start failed, Id=0xXX, Arg=0xXX

The Encoder could not start because of wrong parameter settings.

Diagnostic code	Class	Type	Standard reaction	Reset
0x78C2 (30914_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
A previous error causes this error.	Fix all previous errors.

0x78C3 | [SG], [SL]: Inc Enc: Encoder shutdown failed, Id=0xXX, Arg=0xXX

The encoder shutdown failed with an internal error.

Diagnostic code	Class	Type	Standard reaction	Reset
0x78C3 (30915_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x78C4 | [SG], [SL]: Inc Enc: Internal error, Id=0xXX, Arg=0xXX

Internal Error.

Diagnostic code	Class	Type	Standard reaction	Reset
0x78C4 (30916_{dez})	Error	Feedback error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x78C5 | [SG], [SL]: Inc Enc: Cyclic monitoring error, Id=0xXX, Arg=0xXX

Internal Error.

Diagnostic code	Class	Type	Standard reaction	Reset
0x78C5 (30917_{dez})	Error	Feedback error	Nc handling	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x78C6 | [SG], [SL]: Inc Enc: Encoder warning active, Id=0xXX, Arg=0xXX

Encoder warning active.

Diagnostic code	Class	Type	Standard reaction	Reset
0x78C6 (30918_{dez})	Warning	Warning	No	Warning: No reset required.

Possible causes	Solutions
There can be several reasons for this warning.	Check encoder status in the parameter list (Encoder actual values)

0x78C7 | [SG], [SL]: Inc Enc: SinCos Encoder error (Vector length too long), Vector length = FFV

Diagnostic code	Class	Type	Standard reaction	Reset
0x78C7 (30919_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x78C8 | [SG], [SL]: Inc Enc: SinCos Encoder error (Vector length too short), Vector length = FFV

Diagnostic code	Class	Type	Standard reaction	Reset
0x78C8 (30920_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x78C9 | [SG], [SL]: Inc Enc: SinCos Encoder error (SinCos period counting error)

The crosscheck of the periods counted with the SinCos encoder interface and the periods counted with the additional TTL counter exceeded the tolerance value

Diagnostic code	Class	Type	Standard reaction	Reset
0x78C9 (30921_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x78CA | [SG], [SL]: Inc Enc: TTL Encoder error (Broken wire detected)

Diagnostic code	Class	Type	Standard reaction	Reset
0x78CA (30922_{dez})	Error	Feedback error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x78CB | [SG], [SL]: Inc Enc: TTL Encoder warning active, Id=0xXX, Arg=0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x78CB (30923_{dez})	Warning	Warning	No	Warning: No reset required.

0x78CC | [SG], [SL]: Inc Enc: Parameter error in object 0xXX/XX

The mentioned parameter contains a not accepted value.

Diagnostic code	Class	Type	Standard reaction	Reset
0x78CC (30924_{dez})	Error	Error	Axis is inoperable	Execute Reset-Command (Fault reset).

Possible causes	Solutions
Something is wrong with the parameters in this object.	Please check the parameters of the mentioned object.

0x78FF | [SG], [SL]: Inc Enc: Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic code	Class	Type	Standard reaction	Reset
0x78FF (30975_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0xFFFF | [SG], [SL]: HpfDsl: Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xFFFF (65535_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

2.14 DiagMessages of module DeviceDebug

0xFFFF | [SG], [SL]: Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xFFFF (65535_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

2.15 DiagMessages of module AxisDebug

0xFFFF | [SG], [SL]: Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xFFFF (65535_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the device from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

2.16 DiagMessages of module Safety

0x0001 | Primary MC: GLOBAL_Fault with Code 0xXX and Additional Code 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x0001 (1_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0002 | Primary MC: GLOBAL_Shutdown with Code 0xXX and Additional Code 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x0002 (2_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0003 | Secondary MC: GLOBAL_Fault with Code 0xXX and Additional Code 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x0003 (3_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0004 | Secondary MC: GLOBAL_Shutdown with Code 0xXX and Additional Code 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x0004 (4_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0005 | Primary MC: Stored GLOBAL_Fault with Code 0xXX and Additional Code 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x0005 (5_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0006 | Secondary MC: Stored GLOBAL_Fault with Code 0xXX and Additional Code 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x0006 (6_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0007 | Diag-Message-Overflow: II messages got lost

Diagnostic code	Class	Type	Standard reaction	Reset
0x0007 (7_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0008 | Primary MC: the CRC of the FRAM Data was wrong (Diag-Code=II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x0008 (8_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0009 | Secondary MC: the CRC of the FRAM Data was wrong (Diag-Code=II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x0009 (9_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0010 | Reserved CfgData has to be zero st offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x0010 (16_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0011 | The password is wrong

Diagnostic code	Class	Type	Standard reaction	Reset
0x0011 (17_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0012 | The user was not found

Diagnostic code	Class	Type	Standard reaction	Reset
0x0012 (18_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0013 | The CRC of the login data does not match

Diagnostic code	Class	Type	Standard reaction	Reset
0x0013 (19_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0014 | The serial number of the login data does not match

Diagnostic code	Class	Type	Standard reaction	Reset
0x0014 (20_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0015 | The login watchdog has been expired

Diagnostic code	Class	Type	Standard reaction	Reset
0x0015 (21_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0016 | The user was logged out before

Diagnostic code	Class	Type	Standard reaction	Reset
0x0016 (22_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0017 | The user has not sufficient access rights

Diagnostic code	Class	Type	Standard reaction	Reset
0x0017 (23_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0018 | The reserved area of the CfgData was not 0

Diagnostic code	Class	Type	Standard reaction	Reset
0x0018 (24_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0019 | The CRC of the CfgData was wrong

Diagnostic code	Class	Type	Standard reaction	Reset
0x0019 (25_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x001A | The user name is wrong at word offset 0xXX when changing the password

Diagnostic code	Class	Type	Standard reaction	Reset
0x001A (26_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x001B | The requested number of users is too big

Diagnostic code	Class	Type	Standard reaction	Reset
0x001B (27_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x001D | The user update flags are wrong at word offset 0xXX when changing the password

Diagnostic code	Class	Type	Standard reaction	Reset
0x001D (29_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x001E | The wrong user (user II) is logged in when changing the password (user II found in the received data)

Diagnostic code	Class	Type	Standard reaction	Reset
0x001E (30_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0021 | the maximum Global-Shutdown counter was exceeded in the Vendor Data (maximum value: II, actual value: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x0021 (33_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0026 | 5 faulty logins were received, the device has to be re-powered for a successful login

Diagnostic code	Class	Type	Standard reaction	Reset
0x0026 (38_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0040 | the EtherCAT-watchdog for the safety process data (sync manager 6) was expired

Diagnostic code	Class	Type	Standard reaction	Reset
0x0040 (64_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0041 | the EtherCAT-watchdog for the safety process data (sync manager 6) is too great (maximum: II, received: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x0041 (65_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0080 | Safety reports FSoE Group error on channel A

Safety reports FSoE Group error on channel A

Diagnostic code	Class	Type	Standard reaction	Reset
0x0080 (128_{dez})	Error	Safety Module initiated drive reaction	Closed loop ramp channel A	Execute Reset-Command (Fault reset).

0x0081 | Safety reports FSoE Group error on channel B

Safety reports FSoE Group error on channel B

Diagnostic code	Class	Type	Standard reaction	Reset
0x0081 (129_{dez})	Error	Safety Module initiated drive reaction	Closed loop ramp channel B	Execute Reset-Command (Fault reset).

0x0082 | Safety reports STO module error on channel A

Safety reports STO module error on channel A

Diagnostic code	Class	Type	Standard reaction	Reset
0x0082 (130_{dez})	Error	Safety Module initiated drive reaction	Closed loop ramp channel A	Execute Reset-Command (Fault reset).

0x0083 | Safety reports STO module error on channel B

Safety reports STO module error on channel B

Diagnostic code	Class	Type	Standard reaction	Reset
0x0083 (131_{dez})	Error	Safety Module initiated drive reaction	Closed loop ramp channel B	Execute Reset-Command (Fault reset).

0x0084 | Safety reports FSIN module (digital Inputs) error on channel A

Safety reports FSIN module (digital Inputs) error on channel A

Diagnostic code	Class	Type	Standard reaction	Reset
0x0084 (132_{dez})	Error	Safety Module initiated drive reaction	Closed loop ramp channel A	Execute Reset-Command (Fault reset).

0x0085 | Safety reports FSIN module (digital Inputs) error on channel B

Safety reports FSIN module (digital Inputs) error on channel B

Diagnostic code	Class	Type	Standard reaction	Reset
0x0085 (133_{dez})	Error	Safety Module initiated drive reaction	Closed loop ramp channel B	Execute Reset-Command (Fault reset).

0x0086 | Safety reports Brake module error on channel A

Safety reports Brake module error on channel A

Diagnostic code	Class	Type	Standard reaction	Reset
0x0086 (134_{dez})	Error	Safety Module initiated drive reaction	Closed loop ramp channel A	Execute Reset-Command (Fault reset).

0x0087 | Safety reports Brake module error on channel B

Safety reports Brake module error on channel B

Diagnostic code	Class	Type	Standard reaction	Reset
0x0087 (135_{dez})	Error	Safety Module initiated drive reaction	Closed loop ramp channel B	Execute Reset-Command (Fault reset).

0x0088 | Safety reports Encoder overrange error on channel A

Safety reports Encoder overrange error on channel A

Diagnostic code	Class	Type	Standard reaction	Reset
0x0088 (136_{dez})	Error	Safety Module initiated drive reaction	Closed loop ramp channel A	Execute Reset-Command (Fault reset).

0x0089 | Safety reports Encoder overrange error on channel B

Safety reports Encoder overrange error on channel B

Diagnostic code	Class	Type	Standard reaction	Reset
0x0089 (137_{dez})	Error	Safety Module initiated drive reaction	Closed loop ramp channel B	Execute Reset-Command (Fault reset).

0x0090 | Safety reports Encoder underrange error on channel A

Safety reports Encoder underrange error on channel A

Diagnostic code	Class	Type	Standard reaction	Reset
0x0090 (144_{dez})	Error	Safety Module initiated drive reaction	Closed loop ramp channel A	Execute Reset-Command (Fault reset).

0x0091 | Safety reports Encoder underrange error on channel B

Safety reports Encoder underrange error on channel B

Diagnostic code	Class	Type	Standard reaction	Reset
0x0091 (145_{dez})	Error	Safety Module initiated drive reaction	Closed loop ramp channel B	Execute Reset-Command (Fault reset).

0x0092 | Safety reports Primary Safety Feedback error on channel A

Safety reports Primary Safety Feedback error on channel A

Diagnostic code	Class	Type	Standard reaction	Reset
0x0092 (146_{dez})	Error	Safety Module initiated drive reaction	Closed loop ramp channel A	Execute Reset-Command (Fault reset).

0x0093 | Safety reports Primary Safety Feedback error on channel B

Safety reports Primary Safety Feedback error on channel B

Diagnostic code	Class	Type	Standard reaction	Reset
0x0093 (147_{dez})	Error	Safety Module initiated drive reaction	Closed loop ramp channel B	Execute Reset-Command (Fault reset).

0x0094 | Safety reports Secondary Safety Feedback error on channel A

Safety reports Secondary Safety Feedback error on channel A

Diagnostic code	Class	Type	Standard reaction	Reset
0x0094 (148_{dez})	Error	Safety Module initiated drive reaction	Closed loop ramp channel A	Execute Reset-Command (Fault reset).

0x0095 | Safety reports Secondary Safety Feedback error on channel B

Safety reports Secondary Safety Feedback error on channel B

Diagnostic code	Class	Type	Standard reaction	Reset
0x0095 (149_{dez})	Error	Safety Module initiated drive reaction	Closed loop ramp channel B	Execute Reset-Command (Fault reset).

0x0096 | Safety reports Encoder voltage statemachine fault on channel A

Safety reports Encoder voltage statemachine fault on channel A

Diagnostic code	Class	Type	Standard reaction	Reset
0x0096 (150_{dez})	Error	Safety Module initiated drive reaction	Closed loop ramp channel A	Execute Reset-Command (Fault reset).

0x0097 | Safety reports Encoder voltage statemachine fault on channel B

Safety reports Encoder voltage statemachine fault on channel B

Diagnostic code	Class	Type	Standard reaction	Reset
0x0097 (151_{dez})	Error	Safety Module initiated drive reaction	Closed loop ramp channel B	Execute Reset-Command (Fault reset).

0x0098 | Safety reports Emergency Stop on channel A

DriveCmd: Safety reports Emergency Stop on channel A

Diagnostic code	Class	Type	Standard reaction	Reset
0x0098 (152_{dez})	Error	Safety Module initiated drive reaction	Closed loop ramp channel A	Execute Reset-Command (Fault reset).

0x0099 | Safety reports Emergency Stop on channel B

DriveCmd: Safety reports Emergency Stop on channel B

Diagnostic code	Class	Type	Standard reaction	Reset
0x0099 (153_{dez})	Error	Safety Module initiated drive reaction	Closed loop ramp channel B	Execute Reset-Command (Fault reset).

0x00AD | Safety reports not defined Drive Command on channel A SS

Diagnostic code	Class	Type	Standard reaction	Reset
0x00AD (173_{dez})	Warning	Warning	No	Warning: No reset required.

0x00AE | Safety reports not defined Drive Command on channel B SS

Diagnostic code	Class	Type	Standard reaction	Reset
0x00AE (174_{dez})	Warning	Warning	No	Warning: No reset required.

0x00B0 | Safety Card is in Bootloader mode. Download of valid Firmware is required.

Safety Card is in Bootloader mode. Download of valid Firmware is required.

Diagnostic code	Class	Type	Standard reaction	Reset
0x00B0 (176_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x00B1 | Safety reports a 'Global Shutdown Error'

The status flag 'Global Shutdown' is set.

Diagnostic code	Class	Type	Standard reaction	Reset
0x00B1 (177_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x00B2 | Safety reports a Safetycard communication CRC error on channel A.

The status flag 'Global Shutdown' is set.

Diagnostic code	Class	Type	Standard reaction	Reset
0x00B2 (178_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x00B3 | Safety reports a Safetycard communication CRC error on channel B.

The status flag 'Global Shutdown' is set.

Diagnostic code	Class	Type	Standard reaction	Reset
0x00B3 (179_{dez})	Error	Error	Closed loop ramp	Execute Reset-Command (Fault reset).

0x00FF | Internal Error, Additional Errorcode 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x00FF (255_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

Possible causes	Solutions
An unknown hard- or software error has occurred.	Disconnect the power supply module from the mains (including the 24 V power supply) and start a new attempt. If this error occurs repeatedly, please call the Beckhoff support that is responsible for you.

0x0101 | Primary MC: Completed RAM TEST: Starttime: 0xXX and Stoptime: 0xXX . The calculated timediff is 0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x0101 (257_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0102 | Secondary MC: Completed RAM TEST: Starttime: 0xXX and Stoptime: 0xXX . The calculated timediff is 0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x0102 (258_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0103 | C1 MCTEST Info: Arg1: 0xXX, Arg2: 0xXX, Arg3: 0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x0103 (259_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0104 | C2 MCTEST Info: Arg1: 0xXX, Arg2: 0xXX, Arg3: 0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x0104 (260_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0115 | Controller II: Maximum temperature exceeded. Temperature is 0xXX, should be <= 0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x0115 (277_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0116 | Controller II: Minimum temperature alert. Temperature is 0xXX, should be >= 0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x0116 (278_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0117 | Controller II: Temperature difference too high. Difference is II, should be <= II.

Diagnostic code	Class	Type	Standard reaction	Reset
0x0117 (279_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0118 | Controller II: Maximum voltage alert (Partner_VCC). Voltage is 0xXX, should be <= 0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x0118 (280_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0119 | Controller II: Minimum voltage alert (Partner_VCC). Voltage is 0xXX, should be >= 0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x0119 (281_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x011A | Controller II: Maximum voltage alert (ECAT_VCC). Voltage is 0xXX, should be <= 0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x011A (282_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x011B | Controller II: Minimum voltage alert (ECAT_VCC). Voltage is 0xXX, should be >= 0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x011B (283_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x011E | Controller II: Timer Tick Difference is too high. Difference is 0xXX, should be >= 0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x011E (286_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x011F | Controller II: Minimum value alert (Individual ADC Check). Channel parameter = II. Actual value is 0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x011F (287_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0120 | Controller II: Maximum value alert (Individual ADC Check). Channel parameter = II. Actual value is 0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x0120 (288_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x0121 | Module Shutdown due to minimum value alert (Individual ADC Check). Channel parameter = II.

Diagnostic code	Class	Type	Standard reaction	Reset
0x0121 (289_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x1000 | The size of the safe User Parameter is too small (II), the expected size is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x1000 (4096_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x1003 | The reserved data of the SafeOut User Parameter of module II at byte offset 0xXX has to be 0

Diagnostic code	Class	Type	Standard reaction	Reset
0x1003 (4099_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x1004 | The reserved data of the SafeIn User Parameter of module II at byte offset 0xXX has to be 0

Diagnostic code	Class	Type	Standard reaction	Reset
0x1004 (4100_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x100A | The version of the Product-Code (0xXX) is unequal the expected value of 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x100A (4106_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x100B | The feature bits 0xXX of axis A are not supported, the allowed feature bits are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x100B (4107_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x100C | The feature bits 0xXX of axis B are not supported, the allowed feature bits are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x100C (4108_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x100F | The version (II (VII.II)) of the safety device is not released, not certified and shall only be used for non-safety-critical tests

Diagnostic code	Class	Type	Standard reaction	Reset
0x100F (4111_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x1010 | The default Project CRC is wrong, the received value is 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x1010 (4112_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x1029 | Unallowed Safe User Parameter: Axis B is not supported.

Diagnostic code	Class	Type	Standard reaction	Reset
0x1029 (4137_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x102A | Unallowed Safe User Parameter Version, Received=0xXX Expected=0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x102A (4138_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x102B | The Safe User Parameter Size (II) is unequal to the Safe User Parameter Size for the incremental download (SS)

Diagnostic code	Class	Type	Standard reaction	Reset
0x102B (4139_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x102C | Unallowed Safe User Parameter Size for the requested features, Received=II Expected=II

Diagnostic code	Class	Type	Standard reaction	Reset
0x102C (4140_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x102D | Unallowed Safe User Parameter Ident, Received=II Expected=II

Diagnostic code	Class	Type	Standard reaction	Reset
0x102D (4141_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x102E | Unallowed Safe User Parameter Size, Received=II Expected=II

Diagnostic code	Class	Type	Standard reaction	Reset
0x102E (4142_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x102F | Unallowed Safe User Parameter Change in RUN, Offset=II Info=0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x102F (4143_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x1030 | The size of the safe User Parameter is too big (II), the expected size is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x1030 (4144_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x1515 | Wrong SafetyCard Firmware: Number of supported axis does not fit with current device

Diagnostic code	Class	Type	Standard reaction	Reset
0x1515 (5397_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x1516 | SafetyCard: Invalid Current scaling shift value for calculation configured. SafetyCard VendorData: II DriveApplication: II

Diagnostic code	Class	Type	Standard reaction	Reset
0x1516 (5398_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x15A1 | Mc1: SAFEOUT-Module II: Module Fault due to Fault Link

Diagnostic code	Class	Type	Standard reaction	Reset
0x15A1 (5537_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x15B1 | Mc2: SAFEOUT-Module II: Module Fault due to Fault Link

Diagnostic code	Class	Type	Standard reaction	Reset
0x15B1 (5553_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x15C1 | MC1: SAFEIN-Module II: Module Fault due to Fault Link

Diagnostic code	Class	Type	Standard reaction	Reset
0x15C1 (5569_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x15D1 | MC2: SAFEIN-Module II: Module Fault due to Fault Link

Diagnostic code	Class	Type	Standard reaction	Reset
0x15D1 (5585_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2001 | The II. connection has received an invalid FSoE-Cmd in state CONNECTION

Diagnostic code	Class	Type	Standard reaction	Reset
0x2001 (8193_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2002 | The II. connection has received an unknown FSoE-Cmd in state CONNECTION

Diagnostic code	Class	Type	Standard reaction	Reset
0x2002 (8194_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2003 | The II. connection has received an invalid FSoE-ConnID in state CONNECTION

Diagnostic code	Class	Type	Standard reaction	Reset
0x2003 (8195_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2004 | The II. connection has received an invalid FSoE-CRC in state CONNECTION

Diagnostic code	Class	Type	Standard reaction	Reset
0x2004 (8196_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2005 | The FSoE-Watchdog of the II. connection has been expired in state CONNECTION

Diagnostic code	Class	Type	Standard reaction	Reset
0x2005 (8197_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2006 | On the II. connection the received FSoE-Address (0xXX) does not match with the expected FSoE-Address (0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x2006 (8198_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2007 | On the II. connection the received connection data do not match with the sent values

Diagnostic code	Class	Type	Standard reaction	Reset
0x2007 (8199_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x200C | On the II. connection in state CONNECTION the Connection was restarted from the FSoE-Master

Diagnostic code	Class	Type	Standard reaction	Reset
0x200C (8204_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x200E | A Module fault was detected on the II. connection in state CONNECTION

Diagnostic code	Class	Type	Standard reaction	Reset
0x200E (8206_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2011 | On the II. connection in state CONNECTION a FSoE-Reset with Error-Code 1 was received which means that the communication partner has received an invalid FSoE-Cmd

Diagnostic code	Class	Type	Standard reaction	Reset
0x2011 (8209_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2012 | On the II. connection in state CONNECTION a FSoE-Reset with Error-Code 2 was received which means that the communication partner has received an unknown FSoE-Cmd

Diagnostic code	Class	Type	Standard reaction	Reset
0x2012 (8210_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2013 | On the II. connection in state CONNECTION a FSoE-Reset with Error-Code 3 was received which means that the communication partner has received an invalid FSoE-ConnID

Diagnostic code	Class	Type	Standard reaction	Reset
0x2013 (8211_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2014 | On the II. connection in state CONNECTION a FSoE-Reset with Error-Code 4 was received which means that the communication partner has received an invalid FSoE-CRC

Diagnostic code	Class	Type	Standard reaction	Reset
0x2014 (8212_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2015 | On the II. connection in state CONNECTION a FSoE-Reset with Error-Code 5 was received which means that the FSoE-Watchdog has been expired in the communication partner

Diagnostic code	Class	Type	Standard reaction	Reset
0x2015 (8213_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2016 | On the II. connection in state CONNECTION a FSoE-Reset with Error-Code 6 was received which means that the communication partner has received an invalid FSoE-Address

Diagnostic code	Class	Type	Standard reaction	Reset
0x2016 (8214_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2017 | On the II. connection in state CONNECTION a FSoE-Reset with Error-Code 7 was received which means that the communication partner has received connection data do not match with the sent values

Diagnostic code	Class	Type	Standard reaction	Reset
0x2017 (8215_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2018 | On the II. connection in state CONNECTION a FSoE-Reset with Error-Code 8 was received which means that the communication partner has received an invalid communication parameter length

Diagnostic code	Class	Type	Standard reaction	Reset
0x2018 (8216_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2019 | On the II. connection in state CONNECTION a FSoE-Reset with Error-Code 9 was received which means that the communication partner has received an invalid FSoE Watchdog

Diagnostic code	Class	Type	Standard reaction	Reset
0x2019 (8217_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x201A | On the II. connection in state CONNECTION a FSoE-Reset with Error-Code 10 was received which means that the communication partner has received an invalid application parameter length

Diagnostic code	Class	Type	Standard reaction	Reset
0x201A (8218_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x201B | On the II. connection in state CONNECTION a FSoE-Reset with Error-Code 11 was received which means that the communication partner has received invalid application parameter data

Diagnostic code	Class	Type	Standard reaction	Reset
0x201B (8219_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x201C | On the II. connection in state CONNECTION a FSoE-Reset with Error-Code 12 was received

Diagnostic code	Class	Type	Standard reaction	Reset
0x201C (8220_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x201D | On the II. connection in state CONNECTION a FSoE-Reset with Error-Code 13 was received

Diagnostic code	Class	Type	Standard reaction	Reset
0x201D (8221_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x201E | On the II. connection in state CONNECTION a FSoE-Reset with Error-Code 14 was received which means that the communication partner has detected a module fault

Diagnostic code	Class	Type	Standard reaction	Reset
0x201E (8222_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x201F | On the II. connection in state CONNECTION a FSoE-Reset with Error-Code 0xXX was received

Diagnostic code	Class	Type	Standard reaction	Reset
0x201F (8223_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2041 | The II. connection has received an invalid FSoE-Cmd in state PARAMETER

Diagnostic code	Class	Type	Standard reaction	Reset
0x2041 (8257_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2042 | The II. connection has received an unknown FSoE-Cmd in state PARAMETER

Diagnostic code	Class	Type	Standard reaction	Reset
0x2042 (8258_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2043 | The II. connection has received an invalid FSoE-ConnID in state PARAMETER

Diagnostic code	Class	Type	Standard reaction	Reset
0x2043 (8259_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2044 | The II. connection has received an invalid FSoE-CRC in state PARAMETER

Diagnostic code	Class	Type	Standard reaction	Reset
0x2044 (8260_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2045 | The FSoE-Watchdog of the II. connection has been expired in state PARAMETER

Diagnostic code	Class	Type	Standard reaction	Reset
0x2045 (8261_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2047 | On the II. connection the received parameter data do not match with the sent values

Diagnostic code	Class	Type	Standard reaction	Reset
0x2047 (8263_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2048 | On the II. connection the received communication parameter length (II) does not match with the expected value of 2

Diagnostic code	Class	Type	Standard reaction	Reset
0x2048 (8264_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2049 | On the II. connection the received FSoE Watchdog (II) is outside the allowed area from 2 to 60000

Diagnostic code	Class	Type	Standard reaction	Reset
0x2049 (8265_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x204A | On the II. connection the received application parameter length (II) is unequal the expected length of II

Diagnostic code	Class	Type	Standard reaction	Reset
0x204A (8266_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x204B | On the II. connection the received application parameter data are wrong

Diagnostic code	Class	Type	Standard reaction	Reset
0x204B (8267_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x204C | On the II. connection in state PARAMETER the Connection was restarted from the FSoE-Master

Diagnostic code	Class	Type	Standard reaction	Reset
0x204C (8268_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x204E | A Module fault was detected on the II. connection in state PARAMETER

Diagnostic code	Class	Type	Standard reaction	Reset
0x204E (8270_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2051 | On the II. connection in state PARAMETER a FSoE-Reset with Error-Code 1 was received which means that the communication partner has received an invalid FSoE-Cmd

Diagnostic code	Class	Type	Standard reaction	Reset
0x2051 (8273_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2052 | On the II. connection in state PARAMETER a FSoE-Reset with Error-Code 2 was received which means that the communication partner has received an unknown FSoE-Cmd

Diagnostic code	Class	Type	Standard reaction	Reset
0x2052 (8274_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2053 | On the II. connection in state PARAMETER a FSoE-Reset with Error-Code 3 was received which means that the communication partner has received an invalid FSoE-ConnID

Diagnostic code	Class	Type	Standard reaction	Reset
0x2053 (8275_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2054 | On the II. connection in state PARAMETER a FSoE-Reset with Error-Code 4 was received which means that the communication partner has received an invalid FSoE-CRC

Diagnostic code	Class	Type	Standard reaction	Reset
0x2054 (8276_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2055 | On the II. connection in state PARAMETER a FSoE-Reset with Error-Code 5 was received which means that the FSoE-Watchdog has been expired in the communication partner

Diagnostic code	Class	Type	Standard reaction	Reset
0x2055 (8277_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2056 | On the II. connection in state PARAMETER a FSoE-Reset with Error-Code 6 was received which means that the communication partner has received an invalid FSoE-Address

Diagnostic code	Class	Type	Standard reaction	Reset
0x2056 (8278_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2057 | On the II. connection in state PARAMETER a FSoE-Reset with Error-Code 7 was received which means that the communication partner has received connection data do not match with the sent values

Diagnostic code	Class	Type	Standard reaction	Reset
0x2057 (8279_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2058 | On the II. connection in state PARAMETER a FSoE-Reset with Error-Code 8 was received which means that the communication partner has received an invalid communication parameter length

Diagnostic code	Class	Type	Standard reaction	Reset
0x2058 (8280_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2059 | On the II. connection in state PARAMETER a FSoE-Reset with Error-Code 9 was received which means that the communication partner has received an invalid FSoE Watchdog

Diagnostic code	Class	Type	Standard reaction	Reset
0x2059 (8281_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x205A | On the II. connection in state PARAMETER a FSoE-Reset with Error-Code 10 was received which means that the communication partner has received an invalid application parameter length

Diagnostic code	Class	Type	Standard reaction	Reset
0x205A (8282_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x205B | On the II. connection in state PARAMETER a FSoE-Reset with Error-Code 11 was received which means that the communication partner has received invalid application parameter data

Diagnostic code	Class	Type	Standard reaction	Reset
0x205B (8283_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x205C | On the II. connection in state PARAMETER a FSoE-Reset with Error-Code 12 was received

Diagnostic code	Class	Type	Standard reaction	Reset
0x205C (8284_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x205D | On the II. connection in state PARAMETER a FSoE-Reset with Error-Code 13 was received

Diagnostic code	Class	Type	Standard reaction	Reset
0x205D (8285_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x205E | On the II. connection in state PARAMETER a FSoE-Reset with Error-Code 14 was received which means that the communication partner has detected a module fault

Diagnostic code	Class	Type	Standard reaction	Reset
0x205E (8286_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x205F | On the II. connection in state PARAMETER a FSoE-Reset with Error-Code 0xXX was received

Diagnostic code	Class	Type	Standard reaction	Reset
0x205F (8287_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2061 | On the II. connection in state PARAMETER a wrong Command was received, which means that the Safe-Parameter size is wrong (Expected size: II, Received size: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x2061 (8289_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2081 | The II. connection has received an invalid FSoE-Cmd in state DATA

Diagnostic code	Class	Type	Standard reaction	Reset
0x2081 (8321_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2082 | The II. connection has received an unknown FSoE-Cmd in state DATA

Diagnostic code	Class	Type	Standard reaction	Reset
0x2082 (8322_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2083 | The II. connection has received an invalid FSoE-ConnID in state DATA

Diagnostic code	Class	Type	Standard reaction	Reset
0x2083 (8323_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2084 | The II. connection has received an invalid FSoE-CRC in state DATA

Diagnostic code	Class	Type	Standard reaction	Reset
0x2084 (8324_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2085 | The FSoE-Watchdog of the II. connection has been expired in state DATA

Diagnostic code	Class	Type	Standard reaction	Reset
0x2085 (8325_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x208C | On the II. connection in state DATA the Connection was restarted from the FSoE-Master

Diagnostic code	Class	Type	Standard reaction	Reset
0x208C (8332_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x208D | The FailSafeData command was received on the II. connection in state DATA

Diagnostic code	Class	Type	Standard reaction	Reset
0x208D (8333_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x208E | A Module fault was detected on the II. connection in state DATA

Diagnostic code	Class	Type	Standard reaction	Reset
0x208E (8334_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2091 | On the II. connection in state DATA a FSoE-Reset with Error-Code 1 was received which means that the communication partner has received an invalid FSoE-Cmd

Diagnostic code	Class	Type	Standard reaction	Reset
0x2091 (8337_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2092 | On the II. connection in state DATA a FSoE-Reset with Error-Code 2 was received which means that the communication partner has received an unknown FSoE-Cmd

Diagnostic code	Class	Type	Standard reaction	Reset
0x2092 (8338_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2093 | On the II. connection in state DATA a FSoE-Reset with Error-Code 3 was received which means that the communication partner has received an invalid FSoE-ConnID

Diagnostic code	Class	Type	Standard reaction	Reset
0x2093 (8339_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2094 | On the II. connection in state DATA a FSoE-Reset with Error-Code 4 was received which means that the communication partner has received an invalid FSoE-CRC

Diagnostic code	Class	Type	Standard reaction	Reset
0x2094 (8340_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2095 | On the II. connection in state DATA a FSoE-Reset with Error-Code 5 was received which means that the FSoE-Watchdog has been expired in the communication partner

Diagnostic code	Class	Type	Standard reaction	Reset
0x2095 (8341_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2096 | On the II. connection in state DATA a FSoE-Reset with Error-Code 6 was received which means that the communication partner has received an invalid FSoE-Address

Diagnostic code	Class	Type	Standard reaction	Reset
0x2096 (8342_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2097 | On the II. connection in state DATA a FSoE-Reset with Error-Code 7 was received which means that the communication partner has received connection data do not match with the sent values

Diagnostic code	Class	Type	Standard reaction	Reset
0x2097 (8343_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2098 | On the II. connection in state DATA a FSoE-Reset with Error-Code 8 was received which means that the communication partner has received an invalid communication parameter length

Diagnostic code	Class	Type	Standard reaction	Reset
0x2098 (8344_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x2099 | On the II. connection in state DATA a FSoE-Reset with Error-Code 9 was received which means that the communication partner has received an invalid FSoE Watchdog

Diagnostic code	Class	Type	Standard reaction	Reset
0x2099 (8345_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x209A | On the II. connection in state DATA a FSoE-Reset with Error-Code 10 was received which means that the communication partner has received an invalid application parameter length

Diagnostic code	Class	Type	Standard reaction	Reset
0x209A (8346_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x209B | On the II. connection in state DATA a FSoE-Reset with Error-Code 11 was received which means that the communication partner has received invalid application parameter data

Diagnostic code	Class	Type	Standard reaction	Reset
0x209B (8347_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x209C | On the II. connection in state DATA a FSoE-Reset with Error-Code 12 was received

Diagnostic code	Class	Type	Standard reaction	Reset
0x209C (8348_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x209D | On the II. connection in state DATA a FSoE-Reset with Error-Code 13 was received

Diagnostic code	Class	Type	Standard reaction	Reset
0x209D (8349_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x209E | On the II. connection in state DATA a FSoE-Reset with Error-Code 14 was received which means that the communication partner has detected a module fault

Diagnostic code	Class	Type	Standard reaction	Reset
0x209E (8350_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x209F | On the II. connection in state DATA a FSoE-Reset with Error-Code 0xXX was received

Diagnostic code	Class	Type	Standard reaction	Reset
0x209F (8351_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x20C1 | The II. connection has received an invalid FSoE-Cmd in state SHUTDOWN

Diagnostic code	Class	Type	Standard reaction	Reset
0x20C1 (8385_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x20C2 | The II. connection has received an unknown FSoE-Cmd in state SHUTDOWN

Diagnostic code	Class	Type	Standard reaction	Reset
0x20C2 (8386_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x20C4 | The II. connection has received an invalid FSoE-CRC in state SHUTDOWN

Diagnostic code	Class	Type	Standard reaction	Reset
0x20C4 (8388_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x20E3 | The II. connection has received the invalid FSoE-ConnID 0 in state SESSION

Diagnostic code	Class	Type	Standard reaction	Reset
0x20E3 (8419_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3000 | The received number of groups (II) was too big, the maximum allowed value is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3000 (12288_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3001 | The received number of FBs (II) was too big, the maximum allowed value is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3001 (12289_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3002 | The received number of Connections (II) was too big, the maximum allowed value is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3002 (12290$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3003 | The received number of Output Mappings was too big, the maximum allowed value is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3003 (12291$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3004 | The received number of Input Mappings was too big, the maximum allowed value is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3004 (12292$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3005 | The received size of Standard Inputs (II) was too big, the maximum allowed value is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3005 (12293$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3006 | The received size of Standard Outputs (II) was too big, the maximum allowed value is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3006 (12294$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3007 | The received number of Restore Slaves (II) was too big, the maximum allowed value is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3007 (12295$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3008 | The SafeCfgData type was unexpected: II found and II expected

Diagnostic code	Class	Type	Standard reaction	Reset
0x3008 (12296$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3009 | The SafeCfgData type 2 (Connection) was expected at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3009 (12297$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x300A | The SafeCfgData type 3 (FB) was expected at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x300A (12298$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x300B | The SafeCfgData type 15 (GAP) was expected at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x300B (12299$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x300C | The Bit-Mask in the SafeCfgData was wrong at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x300C (12300$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x300D | The address in the SafeCfgData was wrong at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x300D (12301_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x300E | The Signal number in the SafeCfgData was wrong at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x300E (12302_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x300F | The number of connections was wrong in the SafeCfgData of the Group at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x300F (12303_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3010 | The number of FBs was wrong in the SafeCfgData of the Group at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3010 (12304_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3011 | The size of the SafeCfgData was wrong at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3011 (12305_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3012 | The complete size of the SafeCfgData related to the Group II was wrong

Diagnostic code	Class	Type	Standard reaction	Reset
0x3012 (12306_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3013 | If the RUN-Signal should be mapped internally, it has to be activated at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3013 (12307_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3014 | The message size at offset II is invalid

Diagnostic code	Class	Type	Standard reaction	Reset
0x3014 (12308_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3015 | The connection parameter at offset II is invalid

Diagnostic code	Class	Type	Standard reaction	Reset
0x3015 (12309_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3016 | If the ERRACK-Signal should be mapped internally, it has to be activated at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3016 (12310_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3017 | The connection type at offset II is invalid

Diagnostic code	Class	Type	Standard reaction	Reset
0x3017 (12311_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3018 | The value at offset II of the SafeCfgData is invalid

Diagnostic code	Class	Type	Standard reaction	Reset
0x3018 (12312_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3019 | The value at offset II of the SafeCfgData is invalid because at least one of the related signals is not active

Diagnostic code	Class	Type	Standard reaction	Reset
0x3019 (12313_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x301A | The number of mappings (II) is wrong because it is not the last Mapping SafeCfgData

Diagnostic code	Class	Type	Standard reaction	Reset
0x301A (12314_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x301B | The Safe Logic Cfg Data were downloaded in the wrong download state (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x301B (12315_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x301C | The number of mappings (II) is too great in the Mapping SafeCfgData

Diagnostic code	Class	Type	Standard reaction	Reset
0x301C (12316_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x301D | The Mapping-Size in the SafeCfgData was wrong at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x301D (12317_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x301E | A Group-Input Mapping was expected at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x301E (12318_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x301F | A Connection-Input Mapping was expected at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x301F (12319_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3020 | A FB-Input Bit-Mapping was expected at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3020 (12320_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3021 | A FB-Input Byte-Mapping was expected at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3021 (12321_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3022 | No more mapping was expected at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3022 (12322_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3023 | Invalid Safe User Parameter size at byte offset 0xXX (Found=II, Expected=II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x3023 (12323$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3024 | The SafeCfgData type 4 (Safe User Parameter) was expected at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3024 (12324$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3025 | The download of the Input Mapping Cfg Data was refused because II groups were missing in the Safe Logic Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x3025 (12325$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3026 | The download of the Input Mapping Cfg Data was refused because II connections were missing in the Safe Logic Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x3026 (12326$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3027 | The download of the Input Mapping Cfg Data was refused because II FBs were missing in the Safe Logic Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x3027 (12327$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3028 | At least one group has to be defined in the SafeCfgData

Diagnostic code	Class	Type	Standard reaction	Reset
0x3028 (12328$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3029 | The download of the Input Mapping Cfg Data was refused because no safe Logic Cfg Data were downloaded before

Diagnostic code	Class	Type	Standard reaction	Reset
0x3029 (12329$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x302A | The Subindex II was expected to be downloaded

Diagnostic code	Class	Type	Standard reaction	Reset
0x302A (12330$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x302B | When loading CfgData a user has to be logged in before

Diagnostic code	Class	Type	Standard reaction	Reset
0x302B (12331$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x302C | The Input Mapping Cfg Data were downloaded in the wrong download state (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x302C (12332$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x302D | The download of theSafe Logic CfgData is refused because the old Safe Logic Cfg Data were not deleted before

Diagnostic code	Class	Type	Standard reaction	Reset
0x302D (12333_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x302E | The user was logged out before

Diagnostic code	Class	Type	Standard reaction	Reset
0x302E (12334_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x302F | The user has not sufficient access rights

Diagnostic code	Class	Type	Standard reaction	Reset
0x302F (12335_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3030 | The reserved area of the CfgData was not 0

Diagnostic code	Class	Type	Standard reaction	Reset
0x3030 (12336_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3031 | The CRC of the CfgData was wrong

Diagnostic code	Class	Type	Standard reaction	Reset
0x3031 (12337_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3032 | All needed CfgData pages were downloaded before, no more pages are expected

Diagnostic code	Class	Type	Standard reaction	Reset
0x3032 (12338_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3033 | The mapping code buffer is too small for the mapping (Offset: 0xXX, Size: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x3033 (12339_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3034 | The maximum allowed subindex is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3034 (12340_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3035 | The download of the Output Mapping Cfg Data was refused because II mappings of the Input Mapping Cfg Data were missing

Diagnostic code	Class	Type	Standard reaction	Reset
0x3035 (12341_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3036 | II input mappings of the groups were missing in the Input Mapping Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x3036 (12342_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3037 | II input mappings of the connections were missing in the Input Mapping Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x3037 (12343_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3038 | II input bit mappings of the FBs were missing in the Input Mapping Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x3038 (12344_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3039 | II input byte mappings of the FBs were missing in the Input Mapping Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x3039 (12345_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x303A | The Output Mapping Cfg Data were downloaded in the wrong download state (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x303A (12346_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x303B | The mapping code buffer is too small for the local mapping

Diagnostic code	Class	Type	Standard reaction	Reset
0x303B (12347_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x303C | The download of the Safe Parameter was refused because no Output Mapping Cfg Data were downloaded before

Diagnostic code	Class	Type	Standard reaction	Reset
0x303C (12348_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x303D | The download of the Safe User Parameter was refused because II mappings of the Output Mapping Cfg Data were missing

Diagnostic code	Class	Type	Standard reaction	Reset
0x303D (12349_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x303E | The Safe User Parameter Cfg Data were downloaded in the wrong download state (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x303E (12350_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x303F | The download of the Activate Project Cfg Data was refused because no Safe User Parameter Cfg Data were downloaded before

Diagnostic code	Class	Type	Standard reaction	Reset
0x303F (12351_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3040 | The download of the Activate Project Cfg Data was refused because II bytes of the Safe Parameter Cfg Data were missing

Diagnostic code	Class	Type	Standard reaction	Reset
0x3040 (12352_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3041 | The received activate code (0xXX) was wrong in the Project Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x3041 (12353_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3042 | The TwinSAFE Address (II) in the Project Cfg Data does not match with the stored TwinSAFE Address (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x3042 (12354_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3043 | At least one Cfg Data page has to be defined in the Safe Logic Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x3043 (12355_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3044 | The maximum number (II) of Cfg Data pages was exceeded in the Safe Logic Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x3044 (12356_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3045 | The received number of Safe Logic Cfg Data pages (II) has exceeded the configured value at offset 0 of the Safe Logic Cfg Data (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x3045 (12357_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3046 | The download of the Input Mapping Cfg Data was refused because II pages were missing in the Safe Logic Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x3046 (12358_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3047 | The Safe Logic Cfg Data CRC does not match in the Safe Project Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x3047 (12359_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3048 | When checking the Mapping Code a fault has detected at offset 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3048 (12360_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3049 | The Mapping Cfg Data CRC does not match in the Safe Project Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x3049 (12361_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x304A | The number of Input Mappings is too small in the Safe Project Cfg Data (Code-Offset=0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x304A (12362_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x304B | The number of Output Mappings is too small in the Safe Project Cfg Data (Code-Offset=0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x304B (12363_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x304C | The number of Input Mappings is too great in the Safe Project Cfg Data, (II mappings too much, Code-Offset=0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x304C (12364_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x304D | The number of Output Mappings is too great in the Safe Project Cfg Data, (II mappings too much, Code-Offset=0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x304D (12365_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x304E | The maximum number (II) of Cfg Data pages was exceeded in the Safe User Parameter Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x304E (12366_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x304F | At least one Cfg Data page has to be defined in the Safe User Parameter Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x304F (12367_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3050 | The Safe User Parameter Cfg Data CRC does not match in the Safe Project Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x3050 (12368_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3052 | The calculated local process image size (II) exceeded the maximum local process image size of II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3052 (12370_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3053 | The Activate Project Cfg Data were downloaded in the wrong download state (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x3053 (12371_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3054 | The Delete Project Cfg Data were downloaded in the wrong download state (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x3054 (12372_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3055 | The TwinSAFE Address (II) does not match with the DIP switch (II) in the Delete Project Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x3055 (12373_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3056 | The Delete Code (II) is too high in the Delete Project Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x3056 (12374_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3057 | Unexpected connection index in the Safe User Parameter Cfg Data at byte offset 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3057 (12375_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3058 | The received number of Local Safety Inputs (II) was wrong, the expected value is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3058 (12376_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3059 | The received number of Local Safety Outputs (II) was wrong, the expected value is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3059 (12377_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x305A | The received number of Local Standard Inputs (II) was wrong, the expected value is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x305A (12378_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x305B | The received number of Local Standard Outputs (II) was wrong, the expected value is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x305B (12379_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x305C | The received Safety Input Message size at word offset 15 of the Safe Logic Cfg Data (II) is unequal the calculated value of II

Diagnostic code	Class	Type	Standard reaction	Reset
0x305C (12380_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x305D | The received Safety Output Message size at word offset 16 of the Safe Logic Cfg Data (II) is unequal the calculated value of II

Diagnostic code	Class	Type	Standard reaction	Reset
0x305D (12381_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x305E | The received Safety Input size at word offset 7 of the Safe Logic Cfg Data (II) is unequal the calculated value of II

Diagnostic code	Class	Type	Standard reaction	Reset
0x305E (12382_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x305F | The received Safety Output size at word offset 8 of the Safe Logic Cfg Data (II) is unequal the calculated value of II

Diagnostic code	Class	Type	Standard reaction	Reset
0x305F (12383_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3060 | The received PROFIsafe Input Message size at word offset 9 of the Safe Logic Cfg Data (II) is unequal the calculated value of II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3060 (12384_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3061 | The received PROFIsafe Output Message size at word offset 10 of the Safe Logic Cfg Data (II) is unequal the calculated value of II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3061 (12385_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3062 | At word offset 0xXX the configured number of CRCs of II exceeds the maximum number of CRCs (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x3062 (12386_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3063 | The received SafeUserParameterSizeInFrame (II) was wrong, the expected value is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3063 (12387_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3064 | The received FB Analog Input size at word offset 13 of the Safe Logic Cfg Data (II) is unequal the calculated value of II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3064 (12388_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3065 | The received FB Analog Output size at word offset 14 of the Safe Logic Cfg Data (II) is unequal the calculated value of II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3065 (12389_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3066 | The received Connection Status Data size at word offset 21 of the Safe Logic Cfg Data (II) is unequal the calculated value of II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3066 (12390_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3067 | The received FB Status Data size at word offset 22 of the Safe Logic Cfg Data (II) is unequal the calculated value of II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3067 (12391_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3068 | The number of active signals in the FB is invalid at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3068 (12392_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3069 | The local map code size in the FB is invalid at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3069 (12393_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x306A | The analog output size in the Group Cfg Data is invalid at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x306A (12394_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x306B | The analog output offset in the Group Cfg Data is invalid at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x306B (12395$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x306C | The received FB Analog Output size at word offset 14 of the Safe Logic Cfg Data (II) is unequal the calculated value over all the Group Cfg Data (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x306C (12396$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x306D | The calculated end of the analog output area (II) is unequal the calculated analog output offset over all the Group Cfg Data (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x306D (12397$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x306E | The value of the FB Cfg Data at offset II is invalid

Diagnostic code	Class	Type	Standard reaction	Reset
0x306E (12398$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x306F | At least one FB input has to be deactivated in this operation mode at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x306F (12399$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3070 | At least the level of one FB input is wrong in this operation mode at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3070 (12400$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3071 | The value of the FB Cfg Data at word offset II is invalid in this operation mode

Diagnostic code	Class	Type	Standard reaction	Reset
0x3071 (12401$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3072 | The number (II) of Cfg Data pages was exceeded in the Info Data Cfg Data at offset 0

Diagnostic code	Class	Type	Standard reaction	Reset
0x3072 (12402$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3073 | The received number of FBs (II) at word offset 1 was unequal the configured number of FBs of II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3073 (12403$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3074 | The received FB Status Data Size (II) in the Info Data Map Cfg Data at byte offset II is unequal the calculated FB Status Data size of II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3074 (12404$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3075 | The received FB Diag Data Size (II) in the Info Data Map Cfg Data at byte offset II is unequal the calculated FB Diag Data size of II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3075 (12405$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3076 | The received number of Connections (II) in the Info Data Cfg Data at word offset II was unequal the configured number of connections of II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3076 (12406$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3077 | The received Connection Type (II) in the Info Data Map Cfg Data at byte offset II is unequal the configured Connection Type of II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3077 (12407$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3078 | The FB Diag Data Map in the Info Data Map Cfg Data was wrong at byte offset II (bit 7=1 and bit 6=0 is not allowed)

Diagnostic code	Class	Type	Standard reaction	Reset
0x3078 (12408$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3079 | The received number of Groups (II) in the Info Data Cfg Data at word offset II was unequal the configured number of Groups of II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3079 (12409$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x307A | The FB-Type is unknown at offset 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x307A (12410$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x307B | The value at offset II of the SafeCfgData is too great

Diagnostic code	Class	Type	Standard reaction	Reset
0x307B (12411$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x307C | The value at offset II of the SafeCfgData is too small

Diagnostic code	Class	Type	Standard reaction	Reset
0x307C (12412$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x307D | FB-Muting: if SequentialInputs is TRUE, all MuteIn signals have to be active at offset 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x307D (12413$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x307E | The type of the analog inputs has to be the same at offset 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x307E (12414$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x307F | The received size of the local safe user parameter (II) was wrong, the expected size is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x307F (12415$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3080 | The value at offset II of the SafeCfgData is invalid in combination with the value II words before in the SafeCfgData

Diagnostic code	Class	Type	Standard reaction	Reset
0x3080 (12416$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3081 | The received size of the FB Parameter Data at word offset 25 of the Safe Logic Cfg Data (II) is unequal the calculated value of II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3081 (12417$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3082 | The FB-Type in the Change FB Parameter Data (FB II) is unequal, the expected FB-type is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3082 (12418$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3083 | The size in the Change FB Parameter Data (FB II) is unequal, the expected size is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3083 (12419$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3084 | The Setting Mode of the FB CAMMON (FB II) in the Change FB Parameter Data is not activated

Diagnostic code	Class	Type	Standard reaction	Reset
0x3084 (12420$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3085 | The actual Logic State (II) is unequal RUN (1) when changing FB Parameter Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x3085 (12421$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3086 | The FB-Number (II) in the Change FB Parameter Data is invalid

Diagnostic code	Class	Type	Standard reaction	Reset
0x3086 (12422$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3087 | The FRAM data size (II) has exceeded, the maximum allowed value is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3087 (12423$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3088 | The Safe User Parameter in the Change FB Parameter Data are not supported

Diagnostic code	Class	Type	Standard reaction	Reset
0x3088 (12424$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3089 | The size (II) of the Change FB Parameter Data is too small, II bytes are expected

Diagnostic code	Class	Type	Standard reaction	Reset
0x3089 (12425$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x308A | The type (II) of the Safe User Parameter in the Change FB Parameter Data is wrong

Diagnostic code	Class	Type	Standard reaction	Reset
0x308A (12426_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x308B | The size (II) of the Safe User Parameter in the Change FB Parameter Data is wrong, the expected size is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x308B (12427_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x308C | The offset of the Cyclic FRAM Data was wrong at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x308C (12428_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x308D | No Local Input bytes configured for Extended Info Data Mapping

Diagnostic code	Class	Type	Standard reaction	Reset
0x308D (12429_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x308E | No Local Output bytes configured for Extended Info Data Mapping

Diagnostic code	Class	Type	Standard reaction	Reset
0x308E (12430_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x308F | Too much Local Input bytes configured for Info Data, only 31 bytes are allowed

Diagnostic code	Class	Type	Standard reaction	Reset
0x308F (12431_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3090 | Too much Local Output bytes configured for Info Data, only 31 bytes are allowed

Diagnostic code	Class	Type	Standard reaction	Reset
0x3090 (12432_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3094 | The size 0 is not allowed for the safe user parameter at word offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3094 (12436_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3095 | The download of the Activate Project Cfg Data was refused because no Output Mapping Cfg Data were downloaded before

Diagnostic code	Class	Type	Standard reaction	Reset
0x3095 (12437_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3096 | The download of the Activate Project Cfg Data was refused because II mappings of the Output Mapping Cfg Data were missing

Diagnostic code	Class	Type	Standard reaction	Reset
0x3096 (12438_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3097 | The re-converted FB-Mapping-Code was not matching to the FB Cfg Data (FB: II, Code-Address: 0xXX, Offset: 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x3097 (12439_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3098 | a destination was mapped twice in the bit mapping code (page: 0xXX, Code-Address: 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x3098 (12440_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3099 | a destination was mapped twice in the byte mapping code (Page: 0xXX, Code-Address: 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x3099 (12441_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x309A | the number of groups was exceeded in the Vendor Data (actual value: II, minimum: II, maximum: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x309A (12442_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x309B | the number of FBs was exceeded in the Vendor Data (actual value: II, minimum: II, maximum: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x309B (12443_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x309C | the number of Connections was exceeded in the Vendor Data (actual value: II, minimum: II, maximum: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x309C (12444_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x309D | the number of Standard Inputs was exceeded in the Vendor Data (actual value: II, minimum: II, maximum: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x309D (12445_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x309E | the number of Standard Outputs was exceeded in the Vendor Data (actual value: II, minimum: II, maximum: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x309E (12446_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x309F | the FSoE message size was exceeded in the Vendor Data (actual value: II, minimum: II, maximum: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x309F (12447_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30A0 | the FSoE safe user parameter size was exceeded in the Vendor Data (actual value: II, minimum: II, maximum: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30A0 (12448_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30A1 | the PROFIsafe message size was exceeded in the Vendor Data (actual value: II, minimum: II, maximum: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30A1 (12449_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30A2 | the EtherCAT Output size was exceeded in the Vendor Data (actual value: II, minimum: II, maximum: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30A2 (12450_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30A3 | the EtherCAT Input size was exceeded in the Vendor Data (actual value: II, minimum: II, maximum: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30A3 (12451_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30A4 | the EtherCAT Output size was exceeded in the project (calculated value: II, maximum value: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30A4 (12452_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30A5 | the EtherCAT Input size was exceeded in the project (calculated value: II, maximum value: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30A5 (12453_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30A6 | when re-converting the local FB mapping code (FB II) the analog destination address was below the minimum value (Code-Offset: 0xXX, Data-Offset: 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30A6 (12454_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30A7 | when re-converting the local FB mapping code (FB II) the analog destination address was above the maximum value (Code-Offset: 0xXX, Data-Offset: 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30A7 (12455_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30A8 | when re-converting the local FB mapping code (FB II) the destination address was not found (Code-Offset: 0xXX, Data-Offset: 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30A8 (12456_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30A9 | when re-converting the local FB mapping code (FB II) the digital destination address was below the minimum value (Code-Offset: 0xXX, Data-Offset: 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30A9 (12457_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30AA | when re-converting the local FB mapping code (FB II) the digital destination address was above the maximum value (Code-Offset: 0xXX, Data-Offset: 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30AA (12458_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30AB | when re-converting the local FB mapping code (FB II) the generated mapping data size was wrong (Code-Offset: 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30AB (12459_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30AC | the Project CRC in the Activate Project Cfg Data was wrong

Diagnostic code	Class	Type	Standard reaction	Reset
0x30AC (12460_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30AD | when re-converting the local FB mapping code the source bit address was wrong (FB: II, Code-Offset: 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30AD (12461_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30AE | when re-converting the local FB mapping code the source byte address was wrong (FB: II, Code-Offset: 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30AE (12462_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30B1 | wrong subindex order when reading the input mapping cfg data, the expected subindex is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x30B1 (12465_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30B2 | subindex exceeded when reading the cfg data

Diagnostic code	Class	Type	Standard reaction	Reset
0x30B2 (12466_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30B3 | the offset in the Replacement Values cfg data is wrong in the Group cfg data at word-offset 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x30B3 (12467_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30B4 | the deactivation mode passivate is enabled and the number of connections is unequal 1 in the Group cfg data at word-offset 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x30B4 (12468_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30B5 | the RUN-signal has to be active in the Group cfg data at word-offset 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x30B5 (12469_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30B6 | in the Change FB-Parameter (FB II) the FB-type II is not supported

Diagnostic code	Class	Type	Standard reaction	Reset
0x30B6 (12470_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30B7 | the Subindex exceeds the number of connections (II) when writing the PROFIsafe F-Parameter

Diagnostic code	Class	Type	Standard reaction	Reset
0x30B7 (12471_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30B8 | the Connection-Type II does not support PROFIsafe F-Parameter

Diagnostic code	Class	Type	Standard reaction	Reset
0x30B8 (12472_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30B9 | the Subindex exceeds the number of connections (II) when writing the Store Slave Project CRC Parameter

Diagnostic code	Class	Type	Standard reaction	Reset
0x30B9 (12473_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30BA | the Connection-Type II does not support Store Slave Project CRC Parameter

Diagnostic code	Class	Type	Standard reaction	Reset
0x30BA (12474_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30BB | if there are no Muting sensors behind the AOPD, the Backwards-Mode and optional Check of the OSSD inputs are not allowed

Diagnostic code	Class	Type	Standard reaction	Reset
0x30BB (12475_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30BC | when optional Check of the OSSD inputs is activated, the Sequential Inputs mode has to be activated too

Diagnostic code	Class	Type	Standard reaction	Reset
0x30BC (12476_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30BD | The number of Connections (II) is unequal the calculated number of connections over all groups (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30BD (12477_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30BE | The number of FBs (II) is unequal the calculated number of FBs over all groups (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30BE (12478_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30BF | The calculated local near process image size (II) exceeded the maximum near local process image size of II

Diagnostic code	Class	Type	Standard reaction	Reset
0x30BF (12479_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30C0 | the EtherCAT Output size was exceeded in the connection cfg data at word offset 0xXX (calculated value: II, maximum value: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30C0 (12480_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30C1 | the EtherCAT Input size was exceeded in the connection cfg data at word offset 0xXX (calculated value: II, maximum value: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30C1 (12481_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30C2 | the reserved bits in the flags of the Vendor Data were set (actual value: 0xXX, reserved flags: 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30C2 (12482_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30C3 | FB CAMMON: if the Setting Mode is enabled, at least one position marker has to be configured in the cfg data

Diagnostic code	Class	Type	Standard reaction	Reset
0x30C3 (12483_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30C4 | Connection Type is not supported at word-offset 0xXX of the cfg data

Diagnostic code	Class	Type	Standard reaction	Reset
0x30C4 (12484_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30C5 | writing the PROFIsafe F-Parameter is not allowed in this logic state (II), the logic state has to be 1 (RUN)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30C5 (12485_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30C6 | The ConnId 0xXX is used at least twice

Diagnostic code	Class	Type	Standard reaction	Reset
0x30C6 (12486_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30C7 | The PROFIsafe Address 0xXX is used at least twice

Diagnostic code	Class	Type	Standard reaction	Reset
0x30C7 (12487_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30C8 | The FSoE Address 0xXX is used at least twice

Diagnostic code	Class	Type	Standard reaction	Reset
0x30C8 (12488_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30C9 | The TwinSAFE SC type II is used at least twice

Diagnostic code	Class	Type	Standard reaction	Reset
0x30C9 (12489_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30CA | The TwinSAFE SC CRC 0xXX is used at least twice

Diagnostic code	Class	Type	Standard reaction	Reset
0x30CA (12490_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30CB | The Connection Index II in a FB Connection Shutdown is used at least twice

Diagnostic code	Class	Type	Standard reaction	Reset
0x30CB (12491_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30CC | It is not allowed that the number of FBs and the number of Connections is zero inside the Group Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x30CC (12492_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30CD | the storing of the Store Slave Project CRC Parameter is not supported in connection II

Diagnostic code	Class	Type	Standard reaction	Reset
0x30CD (12493_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30CE | The received size of Safety Input Messages (II) was too big, the maximum allowed value is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x30CE (12494_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30CF | The received size of Safety Output Messages (II) was too big, the maximum allowed value is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x30CF (12495_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30D0 | The received size of PROFIsafe Input Messages (II) was too big, the maximum allowed value is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x30D0 (12496_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30D1 | The received size of PROFIsafe Output Messages (II) was too big, the maximum allowed value is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x30D1 (12497_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30D2 | The Restore Mode is supported on a TwinSAFE SC connection at word-offset 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x30D2 (12498_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30D3 | The FB II (Connection Shutdown) is assigned to a non FSoE-connection

Diagnostic code	Class	Type	Standard reaction	Reset
0x30D3 (12499_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30D4 | The download of the TwinSAFE IO-Project failed because II FBs are configured (no FBs allowed)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30D4 (12500_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30D5 | When the TwinSAFE-Address in the Project Cfg data should be used, it has to be unequal zero

Diagnostic code	Class	Type	Standard reaction	Reset
0x30D5 (12501_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30D6 | When the TwinSAFE-Address in the Project Cfg data should be used, the DIP-switch has to be zero (0xXX found)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30D6 (12502_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30D7 | Read aborted because of invalid code buffer offset (Calculated=0xXX, Expected=0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30D7 (12503_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30D8 | Invalid Safe User Parameter Offset at word offset 0xXX (Calculated=0xXX, Expected=0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30D8 (12504_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30D9 | The Standard Inputs Size of zero is not allowed

Diagnostic code	Class	Type	Standard reaction	Reset
0x30D9 (12505_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30DA | The download of the Replacement Values is not allowed after the download before (download state=II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30DA (12506_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30DB | The Info Data Map Cfg Data were downloaded in the wrong download state (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30DB (12507_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30DC | The offset for the safety-Timer has to be inside the safety Output Area from 0xXX to 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x30DC (12508_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30DD | The safety input size of connection II is zero offset, the Safety Inputs cannot be mapped at byte offset 0xXX of Info Data Map Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x30DD (12509_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30DE | The safety output size of connection II is zero, the Safety Outputs cannot be mapped at byte offset 0xXX of Info Data Map Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x30DE (12510_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30DF | No more safe user parameter expected at byte-offset 0xXX of the Safe User Parameter Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x30DF (12511_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30E0 | The TwinSAFE Address 0 is not allowed in the Project Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x30E0 (12512_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30E1 | The download of the TwinSAFE IO-Project failed because II Groups are configured (only 1 Group allowed)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30E1 (12513_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30E2 | The download of the Delete Project Cfg Data is not allowed in this state (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x30E2 (12514_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30E3 | The destination bit address (0xXX, Bit II) already exists in the same mapping code

Diagnostic code	Class	Type	Standard reaction	Reset
0x30E3 (12515_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30E4 | Local Inputs cannot be mapped in the Info data because no local inputs are existing

Diagnostic code	Class	Type	Standard reaction	Reset
0x30E4 (12516_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30E5 | Local Outputs cannot be mapped in the Info data because no local outputs are existing

Diagnostic code	Class	Type	Standard reaction	Reset
0x30E5 (12517_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30E6 | The destination bit address (0xXX, Bit II) already exists in the same mapping code

Diagnostic code	Class	Type	Standard reaction	Reset
0x30E6 (12518_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30E7 | the input mapping cfg data has to be read before the output mapping cfg data

Diagnostic code	Class	Type	Standard reaction	Reset
0x30E7 (12519_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30E8 | wrong subindex order when reading the mapping cfg data, the expected subindex is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x30E8 (12520_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30E9 | when reading the input mapping cfg data, it has to be started with subindex 1

Diagnostic code	Class	Type	Standard reaction	Reset
0x30E9 (12521_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30EA | invalid CRC when checking the Page II of the Safe Logic Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x30EA (12522_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30EB | invalid CRC when checking the Page II of the Safe User Parameter Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x30EB (12523_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x30EC | invalid CRC when checking the Page II of the Replacement values Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x30EC (12524_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3100 | No groups defined when trying to activate or deactivate groups

Diagnostic code	Class	Type	Standard reaction	Reset
0x3100 (12544_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3101 | The reserved bits are set in value II at offset II when trying to activate or deactivate groups

Diagnostic code	Class	Type	Standard reaction	Reset
0x3101 (12545_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3102 | The operation mode at offset II is not supported when trying to activate or deactivate groups

Diagnostic code	Class	Type	Standard reaction	Reset
0x3102 (12546_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3103 | The deactivation of groups is not enabled for any group so no replacement values should be downloaded

Diagnostic code	Class	Type	Standard reaction	Reset
0x3103 (12547_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3104 | The maximum number (II) of Cfg Data pages was exceeded in the Replacement Values Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x3104 (12548_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3105 | Invalid FB output size size at offset II of the Replacement Values Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x3105 (12549_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3106 | Unexpected groupindex in the Replacement values Cfg Data at offset 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3106 (12550_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3107 | The download of the Activate Project Cfg Data was refused because II bytes of the Replacement Values Cfg Data were missing

Diagnostic code	Class	Type	Standard reaction	Reset
0x3107 (12551$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3108 | To activate the Group II the user has to logged in with access rights Bit 0-15 unequal 0 that the Safe Logic Program will be stopped when logging in

Diagnostic code	Class	Type	Standard reaction	Reset
0x3108 (12552$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3109 | No more definitions of individual replace values for analog FB Outputs in case of Group State unequal RUN are expected at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3109 (12553$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x310A | The offset in the definitions of individual replace values for analog FB Outputs in case of Group State unequal RUN was wrong at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x310A (12554$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x310B | The source process image offset of the Cyclic FRAM Data is outside the FB analog input area at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x310B (12555$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x310C | The source process image offset of the Cyclic FRAM Data has to even at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x310C (12556$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x310D | The size of the Cyclic FRAM Data was exceeding at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x310D (12557$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x310E | The received size of the Cyclic FRAM Data at word offset 24 of the Safe Logic Cfg Data (II) is unequal the calculated value of II

Diagnostic code	Class	Type	Standard reaction	Reset
0x310E (12558$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x310F | The size of the Cyclic FRAM CfgData in the GroupCfgData was not dividable by 4 at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x310F (12559$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3110 | The offset of the Cyclic FRAM Data in the GroupCfgData was wrong at offset II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3110 (12560$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3111 | The value of II at offset II is not allowed when trying to activate or deactivate groups

Diagnostic code	Class	Type	Standard reaction	Reset
0x3111 (12561$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3112 | The activating or deactivating of groups is not allowed in PREOP

Diagnostic code	Class	Type	Standard reaction	Reset
0x3112 (12562$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3113 | FB CAMMON (Word-Offset 0xXX of the CfgData): The TDC2UpperLimit (II) is lower or equal than the maximum position jitter (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x3113 (12563$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3114 | FB CAMMON (Word-Offset 0xXX of the CfgData): The TDCUpperLimit (II) is lower or equal than the maximum position jitter (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x3114 (12564$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3115 | FB CAMMON (Word-Offset 0xXX of the CfgData): The value of TDCLowerLimit (plus maximum position jitter) (II) is bigger or equal the configured position of 360° (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x3115 (12565$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3116 | FB CAMMON (Word-Offset 0xXX of the CfgData): The value of BDCUpperLimit (plus twice the maximum position jitter) (II) is bigger or equal the value of TDCLowerLimit (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x3116 (12566$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3117 | FB CAMMON (Word-Offset 0xXX of the CfgData): The value of BDCUpperLimit (II) is smaller or equal the configured value of 180° (plus maximum position jitter) (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x3117 (12567$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3118 | FB CAMMON (Word-Offset 0xXX of the CfgData): The value of BDCLowerLimit (plus maximum position jitter) (II) is greater or equal the configured value of 180° (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x3118 (12568$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3119 | FB CAMMON (Word-Offset 0xXX of the CfgData): The value of OverrunMax (plus twice the maximum position jitter) (II) is bigger or equal the value of BDCLowerLimit (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x3119 (12569$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x311A | FB CAMMON (Word-Offset 0xXX of the CfgData): The value of TDCUpperLimit (plus twice the maximum position jitter) (II) is bigger or equal the value of OverrunMax (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x311A (12570$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x311B | FB CAMMON (Word-Offset 0xXX of the CfgData): The value of TDC1UpperLimit (plus the maximum position jitter) (II) is bigger or equal the configured position of 360° (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x311B (12571_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x311C | FB CAMMON (Word-Offset 0xXX of the CfgData): The value of TDC1LowerLimit (plus twice the maximum position jitter) (II) is bigger or equal the value of TDC1UpperLimit (5d)

Diagnostic code	Class	Type	Standard reaction	Reset
0x311C (12572_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x311D | FB CAMMON (Word-Offset 0xXX of the CfgData): The value of TDC2LowerLimit (plus twice the maximum position jitter) (II) is bigger or equal the value of BDCLowerLimit (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x311D (12573_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x311E | FB CAMMON (Word-Offset 0xXX of the CfgData): The value of TDC2UpperLimit (plus twice the maximum position jitter) (II) is bigger or equal the value of TDC2LowerLimit (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x311E (12574_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x311F | The maximum size of the Replacement Values was exceeded at Word-Offset 0xXX of the Group Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x311F (12575_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3120 | If no deactivation mode is enabled the offset of the replacement values shall be zero at Word-Offset 0xXX of the Group Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x3120 (12576_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3121 | No more replacement values expected at byte-offset 0xXX of the Replacement Values Cfg Data

Diagnostic code	Class	Type	Standard reaction	Reset
0x3121 (12577_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3122 | The Download of the Project CRC is not allowed in PREOP

Diagnostic code	Class	Type	Standard reaction	Reset
0x3122 (12578_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3123 | The Download of the Change Group Activation data is not allowed if customizing is not supported

Diagnostic code	Class	Type	Standard reaction	Reset
0x3123 (12579_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3200 | The PROFIsafe-protocol is not supported on this device

Diagnostic code	Class	Type	Standard reaction	Reset
0x3200 (12800_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3201 | The F_ParVersion in the F_Prm_Flag2 of the F-Parameter at Word-Offset 0xXX is unequal 1 (PROFIsafe V2)

Diagnostic code	Class	Type	Standard reaction	Reset
0x3201 (12801_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3202 | The F_CRC1 of the F-Parameter at Word-Offset 0xXX is wrong

Diagnostic code	Class	Type	Standard reaction	Reset
0x3202 (12802_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3203 | The F_CRC_Length in the F_Prm_Flag1 of the F-Parameter is wrong at Word-Offset 0xXX, the expected value is 0 (3 Bytes CRC2)

Diagnostic code	Class	Type	Standard reaction	Reset
0x3203 (12803_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3206 | The I-Parameter CRC in the F-Parameter is wrong at Word-Offset 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3206 (12806_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3207 | The F_Block_ID in the F_Prm_Flag2 of the F-Parameter is wrong at Word-Offset 0xXX, the expected value is 0 (No F_iPar_CRC, no F_WD_Time 2) or 1 (F_iPar_CRC, no F_WD_Time 2)

Diagnostic code	Class	Type	Standard reaction	Reset
0x3207 (12807_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3208 | The F_Source_Address in the F-Parameter at Word-Offset 0xXX is outside the allowed area of 1-0xFFFE

Diagnostic code	Class	Type	Standard reaction	Reset
0x3208 (12808_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3209 | The F_Destination_Address in the F-Parameter at Word-Offset 0xXX is outside the allowed area of 1-0xFFFE

Diagnostic code	Class	Type	Standard reaction	Reset
0x3209 (12809_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x320A | The F_WD_Time in the F-parameter at Word-Offset 0xXX is outside the allowed range from 2-60000

Diagnostic code	Class	Type	Standard reaction	Reset
0x320A (12810_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x320B | The F_Destination_Address in the F-Parameter at Word-Offset 0xXX is wrong, the expected value is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x320B (12811_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3210 | The PROFIsafe I-Parameter are only valid for a TwinSAFEIO Safety Project

Diagnostic code	Class	Type	Standard reaction	Reset
0x3210 (12816_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3211 | The CRC3 (iPar-CRC) is wrong, received: 0xXX, expected 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3211 (12817_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3212 | The checking of the Safe User Parameter (I-Parameter) was not successful

Diagnostic code	Class	Type	Standard reaction	Reset
0x3212 (12818_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3300 | The State OPERATIONAL was left in Restore Mode

Diagnostic code	Class	Type	Standard reaction	Reset
0x3300 (13056_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3301 | Only II CRCs were matching in Restore Mode

Diagnostic code	Class	Type	Standard reaction	Reset
0x3301 (13057_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3302 | The CRC of the Activate Project Cfg Data in Restore Mode does not match, the expected value was 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3302 (13058_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3303 | No RestoreMode Slaves configured when trying to start the Restore Mode

Diagnostic code	Class	Type	Standard reaction	Reset
0x3303 (13059_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3304 | The CRC of the User List Cfg Data was not matching in Restore Mode, the expected value was 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3304 (13060_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3305 | The download of the User List Cfg Data is not activated in Restore Mode

Diagnostic code	Class	Type	Standard reaction	Reset
0x3305 (13061_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3306 | The download of the User List Cfg Data in Restore-Mode is not allowed in the state II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3306 (13062_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3307 | The activation of the TwinSAFE Restore Project is not allowed in the state II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3307 (13063_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3308 | The Restore Mode is not supported in EtherCAT state 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3308 (13064_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3310 | The FSoE-Slave on the II. connection is in Restore-Mode

Diagnostic code	Class	Type	Standard reaction	Reset
0x3310 (13072$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3311 | The FSoE-Master on the II. connection is in Restore-Mode

Diagnostic code	Class	Type	Standard reaction	Reset
0x3311 (13073$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3400 | The II. group has no more errors

Diagnostic code	Class	Type	Standard reaction	Reset
0x3400 (13312$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3401 | The Analog Input at word offset II of the analog input process image has expired maximum allowed deviation to the last stored value, received value: II, last stored value: II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3401 (13313$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3402 | The Wait-Com-Error-Timeout has not been expired when the group II should be deactivated in passivate mode

Diagnostic code	Class	Type	Standard reaction	Reset
0x3402 (13314$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3403 | A module fault happened in group II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3403 (13315$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3404 | The assigned connection reported an error when the group II was deactivated in passivate mode

Diagnostic code	Class	Type	Standard reaction	Reset
0x3404 (13316$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3405 | The connection has been successfully restarted when the group II was deactivated in passivate mode

Diagnostic code	Class	Type	Standard reaction	Reset
0x3405 (13317$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3410 | All groups will enter the ERROR-state because the safe logic program has been restarted

Diagnostic code	Class	Type	Standard reaction	Reset
0x3410 (13328$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3411 | All groups will enter the ERROR-state because the CRC of the Change Group Activation Data was wrong

Diagnostic code	Class	Type	Standard reaction	Reset
0x3411 (13329$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3412 | All groups will enter the ERROR-state because the CRC of the Change FB Parameter Data was wrong

Diagnostic code	Class	Type	Standard reaction	Reset
0x3412 (13330$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3413 | All groups will enter the ERROR-state because the CRC of the Project CRC Data was wrong

Diagnostic code	Class	Type	Standard reaction	Reset
0x3413 (13331$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3414 | All groups will enter the ERROR-state because the CRC of the Cyclic FRAM Data was wrong

Diagnostic code	Class	Type	Standard reaction	Reset
0x3414 (13332$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3415 | The TwinSAFE Logic Program was not loaded on C1 because of an inconsistency

Diagnostic code	Class	Type	Standard reaction	Reset
0x3415 (13333$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3416 | The TwinSAFE Logic Program was not loaded on C2 because of an inconsistency

Diagnostic code	Class	Type	Standard reaction	Reset
0x3416 (13334$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3417 | All groups will enter the ERROR-state because the initialization of Cyclic FRAM Data was wrong

Diagnostic code	Class	Type	Standard reaction	Reset
0x3417 (13335$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3418 | Safe User Parameter from FRAM are not correct

Diagnostic code	Class	Type	Standard reaction	Reset
0x3418 (13336$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3420 | No more EtherCAT size error (EtherCAT Output Size=II, EtherCAT Input Size=II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x3420 (13344$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3421 | The EtherCAT Output Data sizes of the Safety Logic Program (II) and the EtherCAT Configuration (II) are unequal

Diagnostic code	Class	Type	Standard reaction	Reset
0x3421 (13345$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3422 | The EtherCAT Input Data sizes of the Safety Logic Program (II) and the EtherCAT Configuration (II) are unequal

Diagnostic code	Class	Type	Standard reaction	Reset
0x3422 (13346$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3423 | The EtherCAT Output Data sizes for PROFIsafe of the Safety Logic Program (II) and the EtherCAT Configuration (II) are unequal

Diagnostic code	Class	Type	Standard reaction	Reset
0x3423 (13347$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3424 | The EtherCAT Input Data sizes for PROFIsafe of the Safety Logic Program (II) and the EtherCAT Configuration (II) are unequal

Diagnostic code	Class	Type	Standard reaction	Reset
0x3424 (13348$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3425 | The needed EtherCAT Process data buffer size (II) exceeded the maximum available size of II

Diagnostic code	Class	Type	Standard reaction	Reset
0x3425 (13349$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3501 | On the II. connection the changeable FSoE Address of II already exists

Diagnostic code	Class	Type	Standard reaction	Reset
0x3501 (13569$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3502 | On the II. connection the changeable FSoE Address is zero

Diagnostic code	Class	Type	Standard reaction	Reset
0x3502 (13570$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3800 | FB II (ESTOP): An EDM-fault (0xXX) was detected in state SAFE

Diagnostic code	Class	Type	Standard reaction	Reset
0x3800 (14336$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3802 | FB II (ESTOP): An EDM-fault (0xXX) was detected in state RESET

Diagnostic code	Class	Type	Standard reaction	Reset
0x3802 (14338$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3803 | FB II (ESTOP): An EDM-fault (0xXX) was detected in state START

Diagnostic code	Class	Type	Standard reaction	Reset
0x3803 (14339$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3804 | FB II (ESTOP): An DiscTime-Fault (0xXX) was detected in state SAFE, the actual EStopIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3804 (14340$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3806 | FB II (ESTOP): An DiscTime-Fault (0xXX) was detected in state RESET, the actual EStopIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3806 (14342$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3807 | FB II (ESTOP): An DiscTime-Fault (0xXX) was detected in state START, the actual EStopIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3807 (14343_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3809 | FB II (ESTOP): An DiscTime-Fault (0xXX) was detected in state DELAYOUT, the actual EStopIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3809 (14345_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x380F | FB II (ESTOP): At least one activated EDM-Input was not reset in RUN when the EDM Reset time had been expired (Diag-Code=0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x380F (14351_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3810 | FB II (MON): An EDM-fault (0xXX) was detected in state SAFE

Diagnostic code	Class	Type	Standard reaction	Reset
0x3810 (14352_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3812 | FB II (MON): An EDM-fault (0xXX) was detected in state RESET

Diagnostic code	Class	Type	Standard reaction	Reset
0x3812 (14354_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3813 | FB II (MON): An EDM-fault (0xXX) was detected in state START

Diagnostic code	Class	Type	Standard reaction	Reset
0x3813 (14355_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3814 | FB II (MON): An DiscTime-Fault (0xXX) was detected in state SAFE, the actual MonIn/Secure-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3814 (14356_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3816 | FB II (MON): An DiscTime-Fault (0xXX) was detected in state RESET, the actual MonIn/ Secure-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3816 (14358_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3817 | FB II (MON): An DiscTime-Fault (0xXX) was detected in state START, the actual MonIn/ Secure-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3817 (14359_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3818 | FB II (MON): An DiscTime-Fault (0xXX) was detected in state RUN, the actual MonIn/Secure-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3818 (14360_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3819 | FB II (MON): An DiscTime-Fault (0xXX) was detected in state DELAYOUT, the actual MonIn/ Secure-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3819 (14361_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x381A | FB II (MON): An DiscTime-Fault (0xXX) was detected in state FUNCTEST, the actual MonIn/ Secure-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x381A (14362_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x381F | FB II (MON): At least one activated EDM-Input was not reset in RUN when the EDM Reset time had been expired (Diag-Code=0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x381F (14367_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3820 | FB II (TWOHAND): A Disc-Group-fault (0xXX) was detected in state 1BUTTON, the actual TwoHandIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3820 (14368_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3821 | FB II (TWOHAND): A Disc-Group-fault (0xXX) was detected in state 2BUTTON, the actual TwoHandIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3821 (14369_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3823 | FB II (TWOHAND): An DiscTime-Fault (0xXX) was detected in state SAFE, the actual TwoHandIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3823 (14371_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3825 | FB II (TWOHAND): An DiscTime-Fault (0xXX) was detected in state RESET, the actual TwoHandIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3825 (14373_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x382B | FB II (TWOHAND): An DiscTime-Fault (0xXX) was detected in state 1BUTTON, the actual TwoHandIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x382B (14379_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x382C | FB II (TWOHAND): An DiscTime-Fault (0xXX) was detected in state 2BUTTON, the actual TwoHandIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x382C (14380_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x382D | FB II (TWOHAND): An DiscTime-Fault (0xXX) was detected in state RELEASE, the actual TwoHandIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x382D (14381$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3830 | FB II (OPMODE): An DiscTime-Fault (0xXX) was detected, the actual OpIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3830 (14384$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3831 | FB II (OPMODE): An Input-Fault was detected in state RESET, the actual OpIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3831 (14385$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3840 | FB II (EDM): The SwitchOn-Time had been expired

Diagnostic code	Class	Type	Standard reaction	Reset
0x3840 (14400$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3841 | FB II (EDM): The SwitchOff-Time had been expired

Diagnostic code	Class	Type	Standard reaction	Reset
0x3841 (14401$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3853 | FB II (CS): An DiscTime-Fault (0xXX) was detected in state SAFE, the actual Deactivate-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3853 (14419$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3855 | FB II (CS): An DiscTime-Fault (0xXX) was detected in state RESET, the actual Deactivate-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3855 (14421$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3881 | FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state RUN, the actual MuteIn/ OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3881 (14465$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3883 | FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state SAFE, the actual MuteIn/ OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3883 (14467$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3885 | FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state RESET, the actual MuteIn/ OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3885 (14469$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3888 | FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state DELAYOUT, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3888 (14472_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3889 | FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state MUTING1, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3889 (14473_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x388A | FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state MUTING2, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x388A (14474_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x388B | FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state MUTING3, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x388B (14475_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x388C | FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state MUTING4, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x388C (14476_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x388D | FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state MUTING5, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x388D (14477_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x388E | FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state MUTING6, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x388E (14478_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x388F | FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state MUTING7, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x388F (14479_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3890 | FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state MUTING8, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3890 (14480_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x3891 | FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state MUTING9, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3891 (14481$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3892 | FB II (MUTING): State RUN, Sequential Inputs=TRUE: MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3892 (14482$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3893 | FB II (MUTING): State RUN, Sequential Inputs=FALSE: MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3893 (14483$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3894 | FB II (MUTING): State MUTING1, MutingEnable is set and the OssdIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3894 (14484$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3895 | FB II (MUTING): State MUTING1, MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3895 (14485$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3896 | FB II (MUTING): State MUTING2, MutingEnable is set and the MuteIn-signals before the AOPD are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3896 (14486$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3897 | FB II (MUTING): State MUTING2, MutingEnable is set and the MuteIn-signals after the AOPD are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3897 (14487$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3898 | FB II (MUTING): State MUTING3, MutingEnable is set and the OssdIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3898 (14488$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x3899 | FB II (MUTING): State MUTING3, Sequential Inputs=TRUE: MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x3899 (14489$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x389A | FB II (MUTING): State MUTING3, Sequential Inputs=FALSE: MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x389A (14490$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x389B | FB II (MUTING): State MUTING4, MutingEnable is set and the OssdIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x389B (14491$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x389C | FB II (MUTING): State MUTING4, MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x389C (14492$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x389D | FB II (MUTING): State MUTING5, MutingEnable is set and the OssdIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x389D (14493$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x389E | FB II (MUTING): State MUTING5, Sequential Inputs=TRUE: MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x389E (14494$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x389F | FB II (MUTING): State MUTING5, Sequential Inputs=FALSE: MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x389F (14495$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x38A0 | FB II (MUTING): State MUTING6, MutingEnable is set and the OssdIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x38A0 (14496$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x38A1 | FB II (MUTING): State MUTING6, MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x38A1 (14497$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x38A2 | FB II (MUTING): State MUTING7, MutingEnable is set and the MuteIn-signals before the AOPD are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x38A2 (14498$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x38A3 | FB II (MUTING): State MUTING7, MutingEnable is set and the MuteIn-signals after the AOPD are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x38A3 (14499_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x38A4 | FB II (MUTING): State MUTING8, MutingEnable is set and the OssdIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x38A4 (14500_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x38A5 | FB II (MUTING): State MUTING8, Sequential Inputs=TRUE, CheckOssdOptional=TRUE: MutingEnable is set and the OssdIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x38A5 (14501_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x38A6 | FB II (MUTING): State MUTING8, Sequential Inputs=TRUE: MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x38A6 (14502_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x38A7 | FB II (MUTING): State MUTING8, Sequential Inputs=FALSE: MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x38A7 (14503_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x38A8 | FB II (MUTING): State MUTING9, MutingEnable is set and the OssdIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x38A8 (14504_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x38A9 | FB II (MUTING): State MUTING9, MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x38A9 (14505_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x38AA | FB II (MUTING): State MUTING5, Sequential Inputs=TRUE, MuteIn3 and MuteIn4 are inactive: MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x38AA (14506_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x38AB | FB II (MUTING): State MUTING6, Sequential Inputs=TRUE, MuteIn3 and MuteIn4 are inactive: MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x38AB (14507_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x38AC | FB II (MUTING): State MUTING1, MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x38AC (14508_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x38B0 | FB II (MUTING): At least one activated EDM-Input was not reset in RUN when the EDM Reset time had been expired (Diag-Code=0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x38B0 (14512_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x38C1 | FB II (MUTING): The Max-Muting-Time had been expired in state MUTING1 (Digital Inputs=0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x38C1 (14529_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x38C2 | FB II (MUTING): The Max-Muting-Time had been expired in state MUTING2 (Digital Inputs=0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x38C2 (14530_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x38C3 | FB II (MUTING): The Max-Muting-Time had been expired in state MUTING3 (Digital Inputs=0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x38C3 (14531_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x38C4 | FB II (MUTING): The Max-Muting-Time had been expired in state MUTING4 (Digital Inputs=0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x38C4 (14532_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x38C5 | FB II (MUTING): The Max-Muting-Time had been expired in state MUTING5 (Digital Inputs=0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x38C5 (14533_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x38C6 | FB II (MUTING): The Max-Muting-Time had been expired in state MUTING6 (Digital Inputs=0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x38C6 (14534_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x38C7 | FB II (MUTING): The Max-Muting-Time had been expired in state MUTING7 (Digital Inputs=0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x38C7 (14535_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x38C8 | FB II (MUTING): The Max-Muting-Time had been expired in state MUTING8 (Digital Inputs=0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x38C8 (14536_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x38C9 | FB II (MUTING): The Max-Muting-Time had been expired in state MUTING9 (Digital Inputs=0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0x38C9 (14537_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x38D0 | FB II (ADVPOSMON): The referenced SafeDriveFeedback module (II) is not configured or has no Position Referencing enabled.

Diagnostic code	Class	Type	Standard reaction	Reset
0x38D0 (14544_{dez})	Error	Safety Module error	No	A reset is not possible. The drive detected a fatal hard- or software error.

0x38D1 | FB II (ADVPOSMON): The referenced SafeDriveFeedback module (II) reports error 0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x38D1 (14545_{dez})	Error	Safety Module error	No	A reset is not possible. The drive detected a fatal hard- or software error.

0x4001 | FB II (CAMMON): The TDC2UpperLimit (II) is lower or equal than the maximum position jitter (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x4001 (16385_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x4002 | FB II (CAMMON): The Position (II) is bigger than the maximum position (plus the maximum position jitter) (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x4002 (16386_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x4003 | FB II (CAMMON): The input OverrunCAM was FALSE in the top dead center area, the actual position is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x4003 (16387_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x4004 | FB II (CAMMON): The input OverrunCAM changed from FALSE to TRUE outside the area between BDCUpperLimit and TDCLowerLimit, the actual position is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x4004 (16388_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x4005 | FB II (CAMMON): The input OverrunCAM was TRUE in the area between OverrunMax and BDCUpperLimit, the actual position is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x4005 (16389_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x4006 | FB II (CAMMON): The input OverrunCAM changed from TRUE to FALSE outside the area between OverrunMax and BDCLowerLimit, the actual position is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x4006 (16390$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x4007 | FB II (CAMMON): The input UpwardsCAM was FALSE in the area between BDCUpperLimit and TDCLowerLimit, the actual position is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x4007 (16391$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x4008 | FB II (CAMMON): The input UpwardsCAM changed from FALSE to TRUE outside the area between BDCLowerLimit and TDCLowerLimit, the actual position is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x4008 (16392$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x4009 | FB II (CAMMON): The input UpwardsCAM changed from TRUE to FALSE outside the area between TDCLowerLimit and OverrunMax, the actual position is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x4009 (16393$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x400A | FB II (CAMMON): The Position was moving while waiting for a rising edge of the input Reset in the state MOVE-STOP

Diagnostic code	Class	Type	Standard reaction	Reset
0x400A (16394$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x400B | FB II (CAMMON): The Position was moving while waiting for a falling edge of the input Reset in the state MOVE-START

Diagnostic code	Class	Type	Standard reaction	Reset
0x400B (16395$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x400C | FB II (CAMMON): The Position II in the area between OverrunMax and BDCLowerLimit was detected in the state MOVE-UP

Diagnostic code	Class	Type	Standard reaction	Reset
0x400C (16396$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x400D | FB II (CAMMON): The Position has left the top dead center while waiting for a stop, the actual position is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x400D (16397$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x400E | FB II (CAMMON): The Position has been changed negative

Diagnostic code	Class	Type	Standard reaction	Reset
0x400E (16398$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x400F | FB II (CAMMON): The input UpwardsCAM was TRUE in the area between OverrunMax and BDCLowerLimit

Diagnostic code	Class	Type	Standard reaction	Reset
0x400F (16399$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x4010 | FB II (CAMMON): The Position has a circle overflow in Pendulum Mode, actual position=II, last position=II

Diagnostic code	Class	Type	Standard reaction	Reset
0x4010 (16400$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x4011 | FB II (CAMMON): The Position has moved while waiting for a rising edge of the input Reset in Pendulum Mode, actual position=II, compare position=II

Diagnostic code	Class	Type	Standard reaction	Reset
0x4011 (16401$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x4012 | FB II (CAMMON): The Input BackwardsMove is TRUE while the Position is between 180° and 360°, the actual position is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x4012 (16402$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x4013 | FB II (CAMMON): The Input BackwardsMove is TRUE while the moving is clockwise

Diagnostic code	Class	Type	Standard reaction	Reset
0x4013 (16403$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x4014 | FB II (CAMMON): The Position has moved while waiting for a falling edge of the input Reset in Pendulum Mode, actual position=II, last position=II

Diagnostic code	Class	Type	Standard reaction	Reset
0x4014 (16404$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x4015 | FB II (CAMMON): The value of TDCLowerLimit (plus maximum position jitter) (II) is bigger or equal the configured position of 360° (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x4015 (16405$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x4016 | FB II (CAMMON): The value of BDCUpperLimit (plus twice the maximum position jitter) (II) is bigger or equal the value of TDCLowerLimit (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x4016 (16406$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x4017 | FB II (CAMMON): The value of BDCUpperLimit (II) is smaller or equal the configured value of 180° (plus maximum position jitter) (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x4017 (16407$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x4018 | FB II (CAMMON): The value of BDCLowerLimit (plus maximum position jitter) (II) is greater or equal the configured value of 180° (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x4018 (16408$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x4019 | FB II (CAMMON): The value of OverrunMax (plus twice the maximum position jitter) (II) is bigger or equal the value of BDCLowerLimit (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x4019 (16409$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x401A | FB II (CAMMON): The value of TDCUpperLimit (plus twice the maximum position jitter) (II) is bigger or equal the value of OverrunMax (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x401A (16410_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x401B | FB II (CAMMON): The value of TDC1UpperLimit (plus the maximum position jitter) (II) is bigger or equal the configured position of 360° (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x401B (16411_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x401C | FB II (CAMMON): The value of TDC1LowerLimit (plus twice the maximum position jitter) (II) is bigger or equal the value of TDC1UpperLimit (5d)

Diagnostic code	Class	Type	Standard reaction	Reset
0x401C (16412_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x401D | FB II (CAMMON): The value of TDC2LowerLimit (plus twice the maximum position jitter) (II) is bigger or equal the value of BDCLowerLimit (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x401D (16413_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x401E | FB II (CAMMON): The value of TDC2UpperLimit (plus twice the maximum position jitter) (II) is bigger or equal the value of TDC2LowerLimit (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x401E (16414_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x401F | FB II (CAMMON): The input PressStarted is TRUE and the position did not move after the PressStartedDelayTime

Diagnostic code	Class	Type	Standard reaction	Reset
0x401F (16415_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x4020 | FB II (CAMMON): The input PressStarted is TRUE and the position has stopped after moving before

Diagnostic code	Class	Type	Standard reaction	Reset
0x4020 (16416_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x4021 | FB II (CAMMON): The input PressStarted is TRUE and the position has not moved enough, the actual position is II, the compare position is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x4021 (16417_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x4022 | FB II (CAMMON), Pendulum Mode: The Position has changed contra clockwise while moving up clockwise (actual Position=II, old Position=II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x4022 (16418_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x4023 | FB II (CAMMON), Pendulum Mode: The Position has changed clockwise while moving up contra clockwise (actual Position=II, old Position=II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x4023 (16419$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x4024 | FB II (CAMMON): The Position was moving while waiting for a falling edge of the input Reset in the state WAIT-FOR_RESET

Diagnostic code	Class	Type	Standard reaction	Reset
0x4024 (16420$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x4025 | FB II (CAMMON): The TDCUpperLimit (II) is lower or equal than the maximum position jitter (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x4025 (16421$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x4080 | FB II (ADD/SUB): an underflow was detected, AnalogIn1=II, AnalogIn2=II

Diagnostic code	Class	Type	Standard reaction	Reset
0x4080 (16512$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x4081 | FB II (ADD/SUB): an overflow was detected, AnalogIn1=II, AnalogIn2=II

Diagnostic code	Class	Type	Standard reaction	Reset
0x4081 (16513$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x4088 | FB II (SPEED): an underflow was detected, actual Position=II, old Position=II

Diagnostic code	Class	Type	Standard reaction	Reset
0x4088 (16520$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x4089 | FB II (SPEED): an overflow was detected, actual Position=II, old Position=II

Diagnostic code	Class	Type	Standard reaction	Reset
0x4089 (16521$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x4090 | FB II (LIMIT): the minimum value (II) is bigger than the maximum value (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x4090 (16528$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x4098 | FB II (COMPARE): an underflow was detected on CompOut (II), the minimum allowed value is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x4098 (16536$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x4099 | FB II (COMPARE): an overflow was detected on CompOut (II), the maximum allowed value is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x4099 (16537$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x40A0 | FB II (MUL): an underflow was detected, AnalogIn1=II, AnalogIn2=II

Diagnostic code	Class	Type	Standard reaction	Reset
0x40A0 (16544_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x40A1 | FB II (MUL): an overflow was detected, AnalogIn1=II, AnalogIn2=II

Diagnostic code	Class	Type	Standard reaction	Reset
0x40A1 (16545_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x40A8 | FB II (DIV): an underflow was detected, AnalogIn1=II, AnalogIn2=II

Diagnostic code	Class	Type	Standard reaction	Reset
0x40A8 (16552_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x40A9 | FB II (DIV): an overflow was detected, AnalogIn1=II, AnalogIn2=II

Diagnostic code	Class	Type	Standard reaction	Reset
0x40A9 (16553_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x40B0 | FB II (SCALE): an underflow was detected, AnalogIn=II

Diagnostic code	Class	Type	Standard reaction	Reset
0x40B0 (16560_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x40B1 | FB II (SCALE): an overflow was detected, AnalogIn=II

Diagnostic code	Class	Type	Standard reaction	Reset
0x40B1 (16561_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x40B2 | FB II (SCALE): an overflow was detected after multiplication, AnalogIn=II

Diagnostic code	Class	Type	Standard reaction	Reset
0x40B2 (16562_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x40B3 | FB II (SCALE): an overflow was detected before division when rounding up the value, AnalogIn=II

Diagnostic code	Class	Type	Standard reaction	Reset
0x40B3 (16563_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x40B8 | FB II (COUNT): an underflow was detected on ActValue (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x40B8 (16568_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x40B9 | FB II (COUNT): an overflow was detected on ActValue (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x40B9 (16569_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x40C0 | FB II (SLI): an underflow was detected on ActValue (II), the minimum allowed value is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x40C0 (16576_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x40C1 | FB II (SLI): an overflow was detected on ActValue (II), the maximum allowed value is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x40C1 (16577_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x40C8 | FB II (ENVELOPE): an underflow was detected on InValue (II), the minimum allowed value is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x40C8 (16584_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x40C9 | FB II (ENVELOPE): an overflow was detected on InValue (II), the maximum allowed value is II

Diagnostic code	Class	Type	Standard reaction	Reset
0x40C9 (16585_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x40CA | FB II (ENVELOPE): an overflow error was detected on InValue (II), InValue+Offset is bigger than the maximum allowed value

Diagnostic code	Class	Type	Standard reaction	Reset
0x40CA (16586_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x40CB | FB II (ENVELOPE): the MaxTime was expired (InValue=II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x40CB (16587_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x40D0 | FB II (SLP): MultiturnPos_LL (II) is bigger than MultiturnPos_UL (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x40D0 (16592_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x40D1 | FB II (SLP): MultiturnPos_LL=MultiturnPos_UL and SingleturnPos_LL (II) is bigger than SingleturnPos_UL (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0x40D1 (16593_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x40D8 | FB II (SBT): Brake-Test failed in state II

Diagnostic code	Class	Type	Standard reaction	Reset
0x40D8 (16600_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x40D9 | FB II (SBT): Brake-Test Interval expired in state II

Diagnostic code	Class	Type	Standard reaction	Reset
0x40D9 (16601_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x40DA | FB II (SBT): Brake-Test failed, Actual Position Deviation=II, Maximum Position Deviation=IIInterval expired in state II

Diagnostic code	Class	Type	Standard reaction	Reset
0x40DA (16602_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6009 | SAFEOUT:Initial-Parameter: MultiplierDiagTestPulse has to be greater zero. ModuleNr:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6009 (24585_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6010 | SAFEOUT:Initial-Parameter: Number of Modules incorrect. ModuleNr:0xXX, Parameter:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6010 (24592_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6011 | SAFEOUT:Initial-Parameter: Number of Channels incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6011 (24593_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6012 | SAFEOUT:Initial-Parameter: Number of Diagnosis active Module incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6012 (24594_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6013 | SAFEOUT:Initial-Parameter: Number of Diagnosis inactive Module incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6013 (24595_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6014 | SAFEOUT:Initial-Parameter: Number of Feedback active Module incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6014 (24596_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6015 | SAFEOUT:Initial-Parameter: Number of Feedback Diagnosis active Module incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6015 (24597_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6016 | SAFEOUT:Initial-Parameter: Number of Feedback inactive Module incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6016 (24598_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6017 | SAFEOUT:Initial-Parameter: Number of Feedback Diagnosis inactive Module incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6017 (24599_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6018 | SAFEOUT:Initial-Parameter: Number of Diagnosis active Channel incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6018 (24600_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6019 | SAFEOUT:Initial-Parameter: Number of Diagnosis inactive Channel incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6019 (24601_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x601A | SAFEOUT:Initial-Parameter: Number of Feedback active Channel incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x601A (24602_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x601B | SAFEOUT:Initial-Parameter: Number of Feedback Diagnosis active Channel incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x601B (24603_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x601C | SAFEOUT:Initial-Parameter: Number of Feedback inactive Channel incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x601C (24604_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x601D | SAFEOUT:Initial-Parameter: Number of Feedback Diagnosis inactive Channel incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x601D (24605_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x601E | SAFEOUT:Setup Hardware Fault: Module Switch. ReturnData:0xXX, ReturnState:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x601E (24606_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x601F | SAFEOUT:Setup Hardware Fault: Diagnosis active Module. ReturnData:0xXX, ReturnState:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x601F (24607_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6020 | SAFEOUT:Setup Hardware Fault: Diagnosis inactive Module. ReturnData:0xXX, ReturnState:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6020 (24608_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6021 | SAFEOUT:Setup Hardware Fault: Feedback active Module. ReturnData:0xXX, ReturnState:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6021 (24609_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6022 | SAFEOUT:Setup Hardware Fault: Feedback Diagnosis active Module. ReturnData:0xXX, ReturnState:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6022 (24610_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6023 | SAFEOUT:Setup Hardware Fault: Feedback inactive Module. ReturnData:0xXX, ReturnState:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6023 (24611_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6024 | SAFEOUT:Setup Hardware Fault: Feedback Diagnosis inactive Module. ReturnData:0xXX, ReturnState:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6024 (24612_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6025 | SAFEOUT:Setup Hardware Fault: Channel Switch. ReturnData:0xXX, ReturnState:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6025 (24613_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6026 | SAFEOUT:Setup Hardware Fault: Diagnosis active Channel. ReturnData:0xXX, ReturnState:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6026 (24614_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6027 | SAFEOUT:Setup Hardware Fault: Diagnosis inactive Channel. ReturnData:0xXX, ReturnState:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6027 (24615_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6028 | SAFEOUT:Setup Hardware Fault: Feedback active Channel. ReturnData:0xXX, ReturnState:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6028 (24616_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6029 | SAFEOUT:Setup Hardware Fault: Feedback Diagnosis active Channel. ReturnData:0xXX, ReturnState:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6029 (24617_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x602A | SAFEOUT:Setup Hardware Fault: Feedback inactive Channel. ReturnData:0xXX, ReturnState:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x602A (24618_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x602B | SAFEOUT:Setup Hardware Fault: Feedback Diagnosis inactive Channel. ReturnData:0xXX, ReturnState:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x602B (24619_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6030 | SAFEOUT:The Feedback of the active Module Switch is wrong. Module:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6030 (24624_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6031 | SAFEOUT:The Feedback of the inactive Module Switch is wrong. Module:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6031 (24625_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6032 | SAFEOUT:The Feedback of the active Channel Switch is wrong. Module:0xXX / Channel:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6032 (24626_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6033 | SAFEOUT:The Feedback of the inactive Channel Switch is wrong. Module:0xXX / Channel:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6033 (24627_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6040 | SAFEOUT:Diagnosis Test: Common Fault Module:0xXX / DiagChannel:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6040 (24640_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6041 | SAFEOUT:Diagnosis Test: Unknown State local ModuleState:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6041 (24641_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6042 | SAFEOUT:Diagnosis Test: Unknown State other ModuleState:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6042 (24642_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6050 | SAFEOUT:Diagnosis Test: Feedback active Module Switch is wrong (Step1 - check current state). Module:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6050 (24656_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6051 | SAFEOUT:Diagnosis Test: Feedback inactive Module Switch is wrong (Step1 - check current state). Module:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6051 (24657_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6052 | SAFEOUT:Diagnosis Test: Feedback active Channel Switch is wrong (Step1 - check current state). Module:0xXX / DiagChannel:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6052 (24658_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6053 | SAFEOUT:Diagnosis Test: Feedback inactive Channel Switch is wrong (Step1 - check current state). Module:0xXX / DiagChannel:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6053 (24659_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6060 | SAFEOUT:Diagnosis Test: Feedback active Module Switch is wrong (Step2 - check test pulse). Module:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6060 (24672_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6061 | SAFEOUT:Diagnosis Test: Feedback inactive Module Switch is wrong (Step2 - check test pulse). Module:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6061 (24673_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6062 | SAFEOUT:Diagnosis Test: Feedback active Channel Switch is wrong (Step2 - check test pulse). Module:0xXX / DiagChannel:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6062 (24674_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6063 | SAFEOUT:Diagnosis Test: Feedback inactive Channel Switch is wrong (Step2 - check test pulse). Module:0xXX / DiagChannel:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6063 (24675_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6080 | SAFEOUT:Diagnosis Test:VendorData. ID: 0xXX Module:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6080 (24704_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6081 | SAFEOUT:Diagnosis Test:VendorData. ID: 0xXX Module:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6081 (24705_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6082 | SAFEOUT:Diagnosis Test:VendorData. ID: 0xXX Module:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6082 (24706_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6083 | SAFEOUT:Diagnosis Test:VendorData. Channel: 0xXX Module:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6083 (24707_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6084 | SAFEOUT:Diagnosis Test:VendorData. Channel: 0xXX Module:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6084 (24708_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6085 | SAFEOUT:Diagnosis Test:VendorData. Channel: 0xXX Module:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6085 (24709_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x6086 | SAFEOUT:Diagnosis Test:VendorData. Channel: 0xXX Module:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x6086 (24710$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x6090 | SAFEOUT:Module Switch FeedbackTest ViolationCounter incremented, Outputs active. Module:0xXX, Info:0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6090 (24720$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x6091 | SAFEOUT:Module Switch FeedbackTest ViolationCounter incremented, Outputs inactive. Module:0xXX, Info:0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6091 (24721$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x6092 | SAFEOUT:Channel Switch FeedbackTest ViolationCounter incremented, Outputs active. Module:0xXX, Channel:0xXX, Info:0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6092 (24722$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x6093 | SAFEOUT:Channel Switch FeedbackTest ViolationCounter incremented, Outputs inactive. Module:0xXX, Channel:0xXX, Info:0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6093 (24723$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x6094 | SAFEOUT:Module Switch DiagnosisTest ViolationCounter incremented, Outputs active (Step1 - check current state). Module:0xXX, Info:0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6094 (24724$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x6095 | SAFEOUT:Module Switch DiagnosisTest ViolationCounter incremented, Outputs inactive (Step1 - check current state). Module:0xXX, Info:0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6095 (24725$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x6096 | SAFEOUT:Channel Switch DiagnosisTest ViolationCounter incremented, Outputs active (Step1 - check current state). Module:0xXX, Channel:0xXX, Info:0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6096 (24726$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x6097 | SAFEOUT:Channel Switch DiagnosisTest ViolationCounter incremented, Outputs inactive (Step1 - check current state). Module:0xXX, Channel:0xXX, Info:0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6097 (24727$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x6098 | SAFEOUT:Module Switch DiagnosisTest ViolationCounter incremented, Outputs active (Step2 - check test pulse). Module:0xXX, Info:0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6098 (24728$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x6099 | SAFEOUT:Module Switch DiagnosisTest ViolationCounter incremented, Outputs inactive (Step2 - check test pulse). Module:0xXX, Info:0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x6099 (24729_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x609A | SAFEOUT:Channel Switch DiagnosisTest ViolationCounter incremented, Outputs active (Step2 - check test pulse). Module:0xXX, Channel:0xXX, Info:0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x609A (24730_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x609B | SAFEOUT:Channel Switch DiagnosisTest ViolationCounter incremented, Outputs inactive (Step2 - check test pulse). Module:0xXX, Channel:0xXX, Info:0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x609B (24731_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x60A0 | SAFEOUT:Sercom Fault 0. Cmd/State:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x60A0 (24736_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x60A1 | SAFEOUT:Sercom Fault 1. Cmd/State:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x60A1 (24737_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x60B0 | SAFEOUT:Unknown Sercom Command Request 1. Cmd/State:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x60B0 (24752_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x60B1 | SAFEOUT:Unknown Sercom Command Answer 1. Cmd/State:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x60B1 (24753_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x60B2 | SAFEOUT:Unknown Sercom Command Request 2. Cmd/State:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x60B2 (24754_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x60B3 | SAFEOUT:Unknown Sercom Command Answer 2. Cmd/State:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x60B3 (24755_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x60C0 | SAFEOUT:Module Switch too fast Switching OFF detected Fault (see technical data). Module:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x60C0 (24768_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x60C1 | SAFEOUT:Channel Switch too fast Switching OFF detected Fault (see technical data). Module:0xXX / Channel:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x60C1 (24769_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x60C2 | SAFEOUT:Module Switch too fast Switching ON detected Fault (see technical data). Module:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x60C2 (24770_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x60C3 | SAFEOUT:Channel Switch too fast Switching ON detected Fault (see technical data). Module:0xXX / Channel:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x60C3 (24771_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x60C4 | SAFEOUT:Module Error Acknowledge is not possible. Module:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x60C4 (24772_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x60E0 | SAFEOUT:HAL Read Fault. ReturnData:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x60E0 (24800_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x60E1 | SAFEOUT:Init Fault. Module:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x60E1 (24801_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x8009 | SAFEIN:Initial-Parameter: MultiplierDiagTestPulse has to be greater zero. ModuleNr:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x8009 (32777_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x8010 | SAFEIN:Initial-Parameter: Number of Modules incorrect. ModuleNr:0xXX, Parameter:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x8010 (32784_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x8011 | SAFEIN:Initial-Parameter: Number of Channels incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x8011 (32785_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x8018 | SAFEIN:Initial-Parameter: Number of Diagnosis active Channel incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x8018 (32792_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x801B | SAFEIN:Initial-Parameter: Number of Feedback Diagnosis active Channel incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x801B (32795_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x8025 | SAFEIN:Setup Hardware Fault: Channel Switch. ReturnData:0xXX, ReturnState:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x8025 (32805_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x8026 | SAFEIN:Setup Hardware Fault: Diagnosis active Channel. ReturnData:0xXX, ReturnState:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x8026 (32806_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x8029 | SAFEIN:Setup Hardware Fault: Feedback Diagnosis active Channel. ReturnData:0xXX, ReturnState:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x8029 (32809_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x8040 | SAFEIN:Diagnosis Test: Common Fault Module:0xXX / DiagChannel:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x8040 (32832_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x8041 | SAFEIN:Diagnosis Test: Unknown State local ModuleState:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x8041 (32833_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x8042 | SAFEIN:Diagnosis Test: Unknown State Other ModuleState:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x8042 (32834_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x8043 | SAFEIN Pulse Detection: Wrong pulse was detected at . Module:0xXX / DiagChannel:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x8043 (32835_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x8044 | SAFEIN Pulse Detection: Detected pulse from Module:0xXX / DiagChannel:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x8044 (32836_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x8052 | SAFEIN:Diagnosis Test: Feedback in Step1 active Channel is wrong. Module:0xXX / DiagChannel:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x8052 (32850_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x8062 | SAFEIN:Diagnosis Test: Feedback in Step2 active Channel is wrong. Module:0xXX / DiagChannel:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x8062 (32866$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x8080 | SAFEIN:Diagnosis Test:VendorData. ID: 0xXX Module:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x8080 (32896$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x8081 | SAFEIN:Diagnosis Test:VendorData. ID: 0xXX Module:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x8081 (32897$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x8084 | SAFEIN:Diagnosis Test:VendorData. Channel: 0xXX Module:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x8084 (32900$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x8085 | SAFEIN:Diagnosis Test:VendorData. Channel: 0xXX Module:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x8085 (32901$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x8086 | SAFEIN:Diagnosis Test:VendorData. Channel: 0xXX Module:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x8086 (32902$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x8096 | SAFEIN:DiagnosisTest ViolationCounter incremented, Inputs active (Step1 - check current state). Module:0xXX, Channel:0xXX, Info:0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x8096 (32918$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x809A | SAFEIN:DiagnosisTest ViolationCounter incremented, Inputs active (Step2 - check test pulse). Module:0xXX, Channel:0xXX, Info:0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0x809A (32922$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x80A0 | SAFEIN:Sercom Fault 0. Cmd/State:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x80A0 (32928$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x80A1 | SAFEIN:Sercom Fault 1. Cmd/State:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x80A1 (32929$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x80B0 | SAFEIN:Unknown Sercom Command Request 1. Cmd/State:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x80B0 (32944$_{dez}$)	undefined	undefined Type	undefined Reaction	undefined Reset

0x80B1 | SAFEIN:Unknown Sercom Command Answer 1. Cmd/State:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x80B1 (32945_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x80B2 | SAFEIN:Unknown Sercom Command Request 2. Cmd/State:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x80B2 (32946_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x80B3 | SAFEIN:Unknown Sercom Command Answer 2. Cmd/State:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x80B3 (32947_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x80C0 | SAFEIN:Error Acknowledge is not possible. Module:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x80C0 (32960_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x80C1 | SAFEIN:Diagnosis Test: Implausible Inputs detected. Module:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x80C1 (32961_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x80C2 | SAFEIN:Diagnosis Test: Implausible Inputs detected (INFO). Parameter1:0xXX / Parameter2:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x80C2 (32962_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x80E0 | SAFEIN:Init HAL Fault.ReturnState:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x80E0 (32992_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x80E1 | SAFEIN:Init Fault. Module:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x80E1 (32993_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x80F0 | SAFEIN: Testpulse is parametrized but not enabled (Diag Testpulse for Inputs active). Module:0xXX / Channel:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x80F0 (33008_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x80F1 | SAFEIN: Testpulse is parametrized but not enabled (Diag TestPulse active). Module:0xXX / Channel:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x80F1 (33009_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x80F2 | SAFEIN: Testfilter-Time too long. Parameter1:0xXX / Parameter2:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x80F2 (33010_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x80F3 | SAFEIN: Inputfilter-Time too short. Parameter1:0xXX / Parameter2:0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0x80F3 (33011_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0x80F4 | SAFEIN: Wrong parameters detected for Module:0xXX / Channel:0xXX. Please check parameters!

Diagnostic code	Class	Type	Standard reaction	Reset
0x80F4 (33012_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xA081 | Transition Pre-Op to Safe-Op not successful. Safetycard not detected.

Diagnostic code	Class	Type	Standard reaction	Reset
0xA081 (41089_{dez})	Error	Error	Axis is inoperable	A reset is not possible. The drive detected a fatal hard- or software error.

Possible causes	Solutions
There is an internal hardware error.	Send the device to the Beckhoff branch office that is responsible for you.

0xB010 | Parameter II exceeded, received value: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xB010 (45072_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xB011 | Parameter TPressMin (II) shall be smaller than TPressMax (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xB011 (45073_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xB022 | SetSafeAddress: t_window (II (in 100 ms)) expired

Diagnostic code	Class	Type	Standard reaction	Reset
0xB022 (45090_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xB023 | SetSafeAddress: t_press1_max (II ms) expired, waiting for button release

Diagnostic code	Class	Type	Standard reaction	Reset
0xB023 (45091_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xB024 | SetSafeAddress: button released before t_press1_min (II ms) was expired

Diagnostic code	Class	Type	Standard reaction	Reset
0xB024 (45092_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xB025 | SetSafeAddress: t_wait (II ms) expired, waiting for button pressing

Diagnostic code	Class	Type	Standard reaction	Reset
0xB025 (45093_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xB026 | SetSafeAddress: t_ack (II ms) expired, waiting for button release

Diagnostic code	Class	Type	Standard reaction	Reset
0xB026 (45094_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xB027 | SetSafeAddress: no valid FSoE-Address after button sequence

Diagnostic code	Class	Type	Standard reaction	Reset
0xB027 (45095_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xB028 | SetSafeAddress: no valid Safe-Address stored (address: 0xXX, crc: 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0xB028 (45096_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xB029 | SetSafeAddress: no valid Safe-Address stored, pairing mode disabled, too much connections (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xB029 (45097_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xB02A | SetSafeAddress: no valid Safe-Address stored, pairing mode disabled, wrong connection type (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xB02A (45098_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xB02B | SetSafeAddress: no valid Safe-Address stored, pairing mode disabled, wrong safe address (II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xB02B (45099_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC201 | Primary MC: AnalogCheckType1 Module II: Microcontroller async detected. (state info 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC201 (49665_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC202 | Primary MC: AnalogCheckType1 Module II: Voltage (II) is too low. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC202 (49666_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC203 | Primary MC: AnalogCheckType1 Module II: Voltage (II) is too high. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC203 (49667_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC221 | Primary MC: AnalogCheckType1 Module II: Microcontroller async detected. (state info 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC221 (49697_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC222 | Primary MC: AnalogCheckType1 Module II: Temperature (II) is too low. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC222 (49698_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC223 | Primary MC: AnalogCheckType1 Module II: Temperature (II) is too high. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC223 (49699_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC301 | Secondary MC: AnalogCheckType1 Module II: Microcontroller async detected. (state info 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC301 (49921_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC302 | Secondary MC: AnalogCheckType1 Module II: Voltage (II) is too low. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC302 (49922_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC303 | Secondary MC: AnalogCheckType1 Module II: Voltage (II) is too high. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC303 (49923_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC321 | Secondary MC: AnalogCheckType1 Module II: Microcontroller async detected. (state info 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC321 (49953_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC322 | Secondary MC: AnalogCheckType1 Module II: Temperature (II) is too low. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC322 (49954_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC323 | Secondary MC: AnalogCheckType1 Module II: Temperature (II) is too high. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC323 (49955_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC500 | Primary MC: AnalogCheckType2 Module II: No Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xC500 (50432_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC505 | Primary MC: AnalogCheckType2 Module II: Microcontroller async detected. (state info 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC505 (50437_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC510 | Primary MC: AnalogCheckType2 Module II: Voltage (II) is too low in state 'Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC510 (50448_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC511 | Primary MC: AnalogCheckType2 Module II: Voltage (II) is too high in state 'Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC511 (50449_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC512 | Primary MC: AnalogCheckType2 Module II: Voltage (II) is too low in state 'Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC512 (50450_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC513 | Primary MC: AnalogCheckType2 Module II: Voltage (II) is too high in state 'Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC513 (50451_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC514 | Primary MC: AnalogCheckType2 Module II: Voltage (II) is too low in state 'to Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC514 (50452_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC515 | Primary MC: AnalogCheckType2 Module II Voltage (II): Timeout detected in state 'to Enable'. Active signal is disabled. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC515 (50453_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC516 | Primary MC: AnalogCheckType2 Module II: Voltage (II) is too high in state 'to Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC516 (50454_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC517 | Primary MC: AnalogCheckType2 Module II Voltage (II): Timeout detected in state 'to Disable'. Active signal is enabled. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC517 (50455_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC520 | Primary MC: Encoder Voltage Module Axis A (Module II): No Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xC520 (50464_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC525 | Primary MC: Encoder Voltage Module Axis A (Module II): Microcontroller async detected. (state info 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC525 (50469_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC530 | Primary MC: Encoder Voltage Module Axis A (Module II): Voltage (II) is too low in state 'Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC530 (50480_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC531 | Primary MC: Encoder Voltage Module Axis A (Module II): Voltage (II) is too high in state 'Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC531 (50481_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC532 | Primary MC: Encoder Voltage Module Axis A (Module II): Voltage (II) is too low in state 'Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC532 (50482_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC533 | Primary MC: Encoder Voltage Module Axis A (Module II): Voltage (II) is too high in state 'Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC533 (50483_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC534 | Primary MC: Encoder Voltage Module Axis A (Module II): Voltage (II) is too low in state 'to Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC534 (50484_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC535 | Primary MC: Encoder Voltage Module Axis A (Module II) Voltage (II): Timeout detected in state 'to Enable'. Enable signal from DriveApplication is inactive. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC535 (50485_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC536 | Primary MC: Encoder Voltage Module Axis A (Module II): Voltage (II) is too high in state 'to Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC536 (50486_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC537 | Primary MC: Encoder Voltage Module Axis A (Module II) Voltage (II): Timeout detected in state 'to Disable'. Enable signal from DriveApplication is activated. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC537 (50487_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC540 | Primary MC: Encoder Voltage Module Axis B (Module II): No Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xC540 (50496_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC545 | Primary MC: Encoder Voltage Module Axis B (Module II): Microcontroller async detected. (state info 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC545 (50501_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC550 | Primary MC: Encoder Voltage Module Axis B (Module II): Voltage (II) is too low in state 'Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC550 (50512_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC551 | Primary MC: Encoder Voltage Module Axis B (Module II): Voltage (II) is too high in state 'Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC551 (50513_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC552 | Primary MC: Encoder Voltage Module Axis B (Module II): Voltage (II) is too low in state 'Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC552 (50514_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC553 | Primary MC: Encoder Voltage Module Axis B (Module II): Voltage (II) is too high in state 'Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC553 (50515_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC554 | Primary MC: Encoder Voltage Module Axis B (Module II): Voltage (II) is too low in state 'to Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC554 (50516_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC555 | Primary MC: Encoder Voltage Module Axis B (Module II) Voltage (II): Timeout detected in state 'to Enable'. Enable signal from DriveApplication is inactive. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC555 (50517_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC556 | Primary MC: Encoder Voltage Module Axis B (Module II): Voltage (II) is too high in state 'to Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC556 (50518_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC557 | Primary MC: Encoder Voltage Module Axis B (Module II) Voltage (II): Timeout detected in state 'to Disable'. Enable signal from DriveApplication is activated. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC557 (50519_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC560 | Primary MC: Highside ChargePump Voltage (Module II): No Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xC560 (50528_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC565 | Primary MC: Highside ChargePump Voltage (Module II): Microcontroller async detected. (state info 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC565 (50533_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC570 | Primary MC: Highside ChargePump Voltage (Module II): Voltage (II) is too low in state 'Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC570 (50544_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC571 | Primary MC: Highside ChargePump Voltage (Module II): Voltage (II) is too high in state 'Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC571 (50545_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC572 | Primary MC: Highside ChargePump Voltage (Module II): Voltage (II) is too low in state 'Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC572 (50546_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC573 | Primary MC: Highside ChargePump Voltage (Module II): Voltage (II) is too high in state 'Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC573 (50547_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC574 | Primary MC: Highside ChargePump Voltage (Module II): Voltage (II) is too low in state 'to Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC574 (50548_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC575 | Primary MC: Highside ChargePump Voltage (Module II) Voltage (II): Timeout detected in state 'to Enable'. Charge pumpe signal (STO) is deactivated. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC575 (50549_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC576 | Primary MC: Highside ChargePump Voltage (Module II): Voltage (II) is too high in state 'to Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC576 (50550_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC577 | Primary MC: Highside ChargePump Voltage (Module II) Voltage (II): Timeout detected in state 'to Disable'. Charge pumpe signal (STO) is deactivated. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC577 (50551_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC580 | Primary MC: Lowside ChargePump Voltage (Module II): No Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xC580 (50560_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC585 | Primary MC: Lowside ChargePump Voltage (Module II): Microcontroller async detected. (state info 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC585 (50565_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC590 | Primary MC: Lowside ChargePump Voltage (Module II): Voltage (II) is too low in state 'Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC590 (50576_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC591 | Primary MC: Lowside ChargePump Voltage (Module II): Voltage (II) is too high in state 'Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC591 (50577_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC592 | Primary MC: Lowside ChargePump Voltage (Module II): Voltage (II) is too low in state 'Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC592 (50578_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC593 | Primary MC: Lowside ChargePump Voltage (Module II): Voltage (II) is too high in state 'Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC593 (50579_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC594 | Primary MC: Lowside ChargePump Voltage (Module II): Voltage (II) is too low in state 'to Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC594 (50580_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC595 | Primary MC: Lowside ChargePump Voltage (Module II) Voltage (II): Timeout detected in state 'to Enable'. Charge pumpe signal (STO) is deactivated. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC595 (50581_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC596 | Primary MC: Lowside ChargePump Voltage (Module II): Voltage (II) is too high in state 'to Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC596 (50582_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC597 | Primary MC: Lowside ChargePump Voltage (Module II) Voltage (II): Timeout detected in state 'to Disable'. Charge pumpe signal (STO) is deactivated. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC597 (50583_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC600 | Secondary MC: AnalogCheckType2 Module II: No Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xC600 (50688_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC605 | Secondary MC: AnalogCheckType2 Module II: Microcontroller async detected. (state info 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC605 (50693_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC610 | Secondary MC: AnalogCheckType2 Module II: Voltage (II) is too low in state 'Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC610 (50704_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC611 | Secondary MC: AnalogCheckType2 Module II: Voltage (II) is too high in state 'Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC611 (50705_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC612 | Secondary MC: AnalogCheckType2 Module II: Voltage (II) is too low in state 'Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC612 (50706_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC613 | Secondary MC: AnalogCheckType2 Module II: Voltage (II) is too high in state 'Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC613 (50707_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC614 | Secondary MC: AnalogCheckType2 Module II: Voltage (II) is too low in state 'to Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC614 (50708_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC615 | Secondary MC: AnalogCheckType2 Module II Voltage (II): Timeout detected in state 'to Enable'. Analog output is deactivated. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC615 (50709_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC616 | Secondary MC: AnalogCheckType2 Module II: Voltage (II) is too high in state 'to Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC616 (50710_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC617 | Secondary MC: AnalogCheckType2 Module II Voltage (II): Timeout detected in state 'to Disable'. Analog output is activated. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC617 (50711_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC620 | Secondary MC: Encoder Voltage Module Axis A (Module II): No Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xC620 (50720_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC625 | Secondary MC: Encoder Voltage Module Axis A (Module II): Microcontroller async detected. (state info 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC625 (50725_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC630 | Secondary MC: Encoder Voltage Module Axis A (Module II): Voltage (II) is too low in state 'Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC630 (50736_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC631 | Secondary MC: Encoder Voltage Module Axis A (Module II): Voltage (II) is too high in state 'Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC631 (50737_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC632 | Secondary MC: Encoder Voltage Module Axis A (Module II): Voltage (II) is too low in state 'Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC632 (50738_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC633 | Secondary MC: Encoder Voltage Module Axis A (Module II): Voltage (II) is too high in state 'Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC633 (50739_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC634 | Secondary MC: Encoder Voltage Module Axis A (Module II): Voltage (II) is too low in state 'to Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC634 (50740_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC635 | Secondary MC: Encoder Voltage Module Axis A (Module II) Voltage (II): Timeout detected in state 'to Enable'. Enable signal from DriveApplication is inactive. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC635 (50741_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC636 | Secondary MC: Encoder Voltage Module Axis A (Module II): Voltage (II) is too high in state 'to Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC636 (50742_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC637 | Secondary MC: Encoder Voltage Module Axis A (Module II) Voltage (II): Timeout detected in state 'to Disable'. Enable signal from DriveApplication is activated. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC637 (50743_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC640 | Secondary MC: Encoder Voltage Module Axis B (Module II): No Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xC640 (50752_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC645 | Secondary MC: Encoder Voltage Module Axis B (Module II): Microcontroller async detected. (state info 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC645 (50757_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC650 | Secondary MC: Encoder Voltage Module Axis B (Module II): Voltage (II) is too low in state 'Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC650 (50768_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC651 | Secondary MC: Encoder Voltage Module Axis B (Module II): Voltage (II) is too high in state 'Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC651 (50769_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC652 | Secondary MC: Encoder Voltage Module Axis B (Module II): Voltage (II) is too low in state 'Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC652 (50770_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC653 | Secondary MC: Encoder Voltage Module Axis B (Module II): Voltage (II) is too high in state 'Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC653 (50771_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC654 | Secondary MC: Encoder Voltage Module Axis B (Module II): Voltage (II) is too low in state 'to Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC654 (50772_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC655 | Secondary MC: Encoder Voltage Module Axis B (Module II) Voltage (II): Timeout detected in state 'to Enable'. Enable signal from DriveApplication is inactive. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC655 (50773_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC656 | Secondary MC: Encoder Voltage Module Axis B (Module II): Voltage (II) is too high in state 'to Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC656 (50774_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC657 | Secondary MC: Encoder Voltage Module Axis B (Module II) Voltage (II): Timeout detected in state 'to Disable'. Enable signal from DriveApplication is activated. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC657 (50775_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC660 | Secondary MC: Highside ChargePump Voltage (Module II): No Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xC660 (50784_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC665 | Secondary MC: Highside ChargePump Voltage (Module II): Microcontroller async detected. (state info 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC665 (50789_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC670 | Secondary MC: Highside ChargePump Voltage (Module II): Voltage (II) is too low in state 'Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC670 (50800_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC671 | Secondary MC: Highside ChargePump Voltage (Module II): Voltage (II) is too high in state 'Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC671 (50801_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC672 | Secondary MC: Highside ChargePump Voltage (Module II): Voltage (II) is too low in state 'Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC672 (50802_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC673 | Secondary MC: Highside ChargePump Voltage (Module II): Voltage (II) is too high in state 'Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC673 (50803_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC674 | Secondary MC: Highside ChargePump Voltage (Module II): Voltage (II) is too low in state 'to Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC674 (50804_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC675 | Secondary MC: Highside ChargePump Voltage (Module II) Voltage (II): Timeout detected in state 'to Enable'. Charge pumpe signal (STO) is deactivated. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC675 (50805_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC676 | Secondary MC: Highside ChargePump Voltage (Module II): Voltage (II) is too high in state 'to Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC676 (50806_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC677 | Secondary MC: Highside ChargePump Voltage (Module II) Voltage (II): Timeout detected in state 'to Disable'. Charge pumpe signal (STO) is activated. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC677 (50807_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC680 | Secondary MC: Lowside ChargePump Voltage (Module II): No Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xC680 (50816_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC685 | Secondary MC: Lowside ChargePump Voltage (Module II): Microcontroller async detected. (state info 0xXX)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC685 (50821_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC690 | Secondary MC: Lowside ChargePump Voltage (Module II): Voltage (II) is too low in state 'Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC690 (50832_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC691 | Secondary MC: Lowside ChargePump Voltage (Module II): Voltage (II) is too high in state 'Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC691 (50833_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC692 | Secondary MC: Lowside ChargePump Voltage (Module II): Voltage (II) is too low in state 'Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC692 (50834_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC693 | Secondary MC: Lowside ChargePump Voltage (Module II): Voltage (II) is too high in state 'Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC693 (50835_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC694 | Secondary MC: Lowside ChargePump Voltage (Module II): Voltage (II) is too low in state 'to Enable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC694 (50836_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC695 | Secondary MC: Lowside ChargePump Voltage (Module II) Voltage (II): Timeout detected in state 'to Enable'. Charge pumpe signal (STO) is deactivated. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC695 (50837_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC696 | Secondary MC: Lowside ChargePump Voltage (Module II): Voltage (II) is too high in state 'to Disable'. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC696 (50838_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xC697 | Secondary MC: Lowside ChargePump Voltage (Module II) Voltage (II): Timeout detected in state 'to Disable'. Charge pumpe signal (STO) is activated. (ViolationCounter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xC697 (50839_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD180 | Primary MC: SAFETY FEEDBACK Module: 0xXX in State 0xXX. No Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xD180 (53632_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD181 | Primary MC: SAFETY FEEDBACK Module: 0xXX in State 0xXX. No new Position received

Diagnostic code	Class	Type	Standard reaction	Reset
0xD181 (53633_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD182 | Primary MC: SAFETY FEEDBACK Module: 0xXX. Invalid Position. Errorcode: 0xXX Info: 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD182 (53634_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD183 | Primary MC: SAFETY FEEDBACK Module: 0xXX in State 0xXX. DriveApplication reports Feedback Error 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD183 (53635_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD184 | Primary MC: SAFETY FEEDBACK Module: 0xXX. Safety OCT Feedback not supported by Hardware

Diagnostic code	Class	Type	Standard reaction	Reset
0xD184 (53636_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD185 | Primary MC: SAFETY FEEDBACK Module: 0xXX. EnDat2.2 Feedback not supported by Hardware

Diagnostic code	Class	Type	Standard reaction	Reset
0xD185 (53637_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD186 | Primary MC: SAFETY FEEDBACK Invalid drive application data received. Invalid CRC. Module Id: II Calculated CRC: 0xXX Received CRC: 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD186 (53638_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD187 | Primary MC: SAFETY FEEDBACK Invalid drive application data received. Invalid Command: 0xXX Module Id: II type: 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD187 (53639_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD188 | Primary MC: SAFETY FEEDBACK Module: 0xXX. configured Safety User Parameter CRC (0xXX) did not match with Feedback Parameter CRC

Diagnostic code	Class	Type	Standard reaction	Reset
0xD188 (53640_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD189 | Primary MC: SAFETY FEEDBACK Module: 0xXX. Module state sync error. local: 0xXX other: 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD189 (53641_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD18A | Primary MC: SAFETY FEEDBACK: FPGA is not validated with this firmware. Elapsed time: II seconds

Diagnostic code	Class	Type	Standard reaction	Reset
0xD18A (53642_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD18B | Primary MC: SAFETY FEEDBACK Module: 0xXX. Stored Feedback Parameter CRC (0xXX) and Safety User Parameter CRC (0xXX) did not match

Diagnostic code	Class	Type	Standard reaction	Reset
0xD18B (53643_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD18C | Primary MC: SAFETY FEEDBACK Module: 0xXX. Encoder Safety User Parameter CRC configured but Drive Application (Slot Configuration) not set

Diagnostic code	Class	Type	Standard reaction	Reset
0xD18C (53644_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD18D | Primary MC: SAFETY FEEDBACK Module: 0xXX. Cannot enable because module is not configured. State: 0xXX DriveAppl: 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD18D (53645_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD18E | Primary MC: SAFETY FEEDBACK Module: 0xXX. Double used Parameter CRC (0xXX). Info: 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD18E (53646_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD18F | Primary MC: SAFETY FEEDBACK Module: 0xXX. Encoder Voltage not enabled. State: 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD18F (53647_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD190 | Primary MC: SAFETY FEEDBACK Module: 0xXX. Encoder data buffer overrun. State: 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD190 (53648_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD191 | Primary MC: SAFETY FEEDBACK Module: 0xXX. Cannot read Encoder info block. Return Code: 0xXX Info: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD191 (53649_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD192 | Primary MC: SAFETY FEEDBACK Invalid drive application data received. Module Id exceeded: II Expected max: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD192 (53650_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD193 | Primary MC: SAFETY FEEDBACK Invalid drive application data received. Data length too long: II Expected max: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD193 (53651_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD194 | Primary MC: SAFETY FEEDBACK Invalid drive application data received. Data length too short: II Expected min: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD194 (53652_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD195 | Primary MC: SAFETY FEEDBACK Module: 0xXX. Invalid drive application data received. Not allowed in this state: II Command: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD195 (53653_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD196 | Primary MC: SAFETY FEEDBACK Module: 0xXX. Error during position calculation. Info: 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD196 (53654_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD197 | Primary MC: SAFETY FEEDBACK Invalid Safety FPGA interface version. Info: 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD197 (53655_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD198 | Primary MC: SAFETY FEEDBACK Module: 0xXX. Invalid Safedrive Settings Parameter II. value: 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD198 (53656_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD199 | Primary MC: SAFETY FEEDBACK Module: 0xXX. Not supported by this firmware. CRC: 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD199 (53657_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD19A | Primary MC: SAFETY FEEDBACK Module: 0xXX. Safe user parameter position shift value is too large. SingleturnPositionBits: II PositionShiftValue: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD19A (53658_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD19B | Primary MC: SAFETY FEEDBACK Module: 0xXX. Motor exchange cannot performed. Stored and current Encoder Parameter mismatch (Subidx: II). Current Encoder Index: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD19B (53659_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD19C | Primary MC: SAFETY FEEDBACK Module: 0xXX. Motor exchange cannot performed because other module II is in fault state with errorcode 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD19C (53660_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD19D | Primary MC: SAFETY FEEDBACK Module: 0xXX. Motor exchange detected and successfully done.

Diagnostic code	Class	Type	Standard reaction	Reset
0xD19D (53661_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD19E | Primary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: EnableForSetReferencingPosition is disabled but reference position is not zero. Ref SingleturnPos: II RefMultiturnPos: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD19E (53662_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD19F | Primary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: MinimumReferencePostion (Singleturn:0xXX Multiturn:II) is larger than MaximumReferencePosition

Diagnostic code	Class	Type	Standard reaction	Reset
0xD19F (53663_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD1A0 | Primary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: ReferenceSafePosition (Singleturn:0xXX Multiturn:II) is too small. Position exceeded minimum Range

Diagnostic code	Class	Type	Standard reaction	Reset
0xD1A0 (53664_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD1A1 | Primary MC: SAFETY FEEDBACK SafeUserParameter: Cyclic FRAM data size is not large enough. Allocated size: II Requested size: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD1A1 (53665_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD1A2 | Primary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: Difference between minimal and maximal configured position is too large. Difference: Singleturn:0xXX Multiturn:II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD1A2 (53666_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD1A3 | Primary MC: SAFETY FEEDBACK Module: 0xXX. Referencing of position in automatic mode is required. No stored position found.

Diagnostic code	Class	Type	Standard reaction	Reset
0xD1A3 (53667_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD1A4 | Primary MC: SAFETY FEEDBACK Module: 0xXX. Referencing of position cannot be achieved because motor speed is too high. current Speed: II configured limit: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD1A4 (53668_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD1A5 | Primary MC: SAFETY FEEDBACK Module: 0xXX. Position deviation on startup is too large. Difference: Singleturn:0xXX Multiturn:II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD1A5 (53669_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD1A6 | Primary MC: SAFETY FEEDBACK Module: 0xXX. Referenced position exceeded configured minimum range. Current position: Singleturn:0xXX Multiturn:II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD1A6 (53670_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD1A7 | Primary MC: SAFETY FEEDBACK Module: 0xXX. Referenced position exceeded configured maximum range. Current position: Singleturn:0xXX Multiturn:II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD1A7 (53671_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD1A8 | Primary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: ReferenceSafePosition (Singleturn:0xXX Multiturn:II) is too large. Position exceeded maximum Range

Diagnostic code	Class	Type	Standard reaction	Reset
0xD1A8 (53672_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD1A9 | Primary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: Referencing Optional Parameter size is invaild. Info: 0xXX. 0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0xD1A9 (53673_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD1AA | Primary MC: SAFETY FEEDBACK Module: 0xXX. Invalid feedback configuration. Same encoder type on primary and secondary feedback is not permitted. Other Module: II type:II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD1AA (53674_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD1AB | Primary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: Invalid referencing operation mode selected: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD1AB (53675_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD1AC | Primary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: ManualReferencing option and SpeedatReferencePosition is not zero. value: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD1AC (53676_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD1AD | Primary MC: SAFETY FEEDBACK Module: 0xXX. Position Referencing is not supported because no Multiturn Feedback detected.

Diagnostic code	Class	Type	Standard reaction	Reset
0xD1AD (53677_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD1AE | Primary MC: SAFETY FEEDBACK Module: 0xXX. Shifted Singleturn Position exceeds 32bit. SingleturnPosBits: II PositionShiftBits: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD1AE (53678_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD1AF | Primary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: Online change of Referencing mode is not permitted. Current: II New: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD1AF (53679_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD1B0 | Primary MC: SAFETY FEEDBACK Module: 0xXX. Manual Referencing requires download of new Safe User Parameter.

Diagnostic code	Class	Type	Standard reaction	Reset
0xD1B0 (53680_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD1B1 | Primary MC: SAFETY FEEDBACK Module: 0xXX. FPGA type is not supported by current Firmware. Protocol reported: II II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD1B1 (53681_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD1B2 | Primary MC: SAFETY FEEDBACK Module: 0xXX. EnDat3 Feedback is not supported by Hardware.

Diagnostic code	Class	Type	Standard reaction	Reset
0xD1B2 (53682_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD1B3 | Primary MC: SAFETY FEEDBACK Module: 0xXX. The stored encoder Id (II) did not match with the expected id (II). Maybe the axis is reversed.

Diagnostic code	Class	Type	Standard reaction	Reset
0xD1B3 (53683_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD1B4 | Primary MC: SAFETY FEEDBACK Module: 0xXX. 64bit calculation is needed for position verification and may result in long safety cycle execution time (Return Code: 0xXX).

Diagnostic code	Class	Type	Standard reaction	Reset
0xD1B4 (53684_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD280 | Secondary MC: SAFETY FEEDBACK Module: 0xXX in State 0xXX. No Error

Diagnostic code	Class	Type	Standard reaction	Reset
0xD280 (53888_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD281 | Secondary MC: SAFETY FEEDBACK Module: 0xXX in State 0xXX. No new Position received

Diagnostic code	Class	Type	Standard reaction	Reset
0xD281 (53889_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD282 | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Invalid Position. Errorcode: 0xXX Info: 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD282 (53890_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD283 | Secondary MC: SAFETY FEEDBACK Module: 0xXX in State 0xXX. DriveApplication reports Feedback Error 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD283 (53891_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD284 | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Safety OCT Feedback not supported by Hardware

Diagnostic code	Class	Type	Standard reaction	Reset
0xD284 (53892_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD285 | Secondary MC: SAFETY FEEDBACK Module: 0xXX. EnDat2.2 Feedback not supported by Hardware

Diagnostic code	Class	Type	Standard reaction	Reset
0xD285 (53893_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD286 | Secondary MC: SAFETY FEEDBACK Invalid drive application data received. Invalid Command. Module Id: II type: 0xXX Command: 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD286 (53894_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD287 | Secondary MC: SAFETY FEEDBACK Invalid drive application data received. Invalid Command: 0xXX Module Id: II type: 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD287 (53895_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD288 | Secondary MC: SAFETY FEEDBACK Module: 0xXX. configured Safety User Parameter CRC (0xXX) did not match with Feedback Parameter CRC

Diagnostic code	Class	Type	Standard reaction	Reset
0xD288 (53896_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD289 | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Module state sync error. local: 0xXX other: 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD289 (53897_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD28A | Secondary MC: SAFETY FEEDBACK: FPGA is not validated with this firmware. Elapsed time: II seconds

Diagnostic code	Class	Type	Standard reaction	Reset
0xD28A (53898_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD28B | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Stored Feedback Parameter CRC (0xXX) and Safety User Parameter CRC (0xXX) did not match

Diagnostic code	Class	Type	Standard reaction	Reset
0xD28B (53899_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD28C | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Encoder Safety User Parameter CRC configured but Drive Application (Slot Configuration) not set

Diagnostic code	Class	Type	Standard reaction	Reset
0xD28C (53900_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD28D | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Cannot enable because module is not configured. State: 0xXX DriveAppl: 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD28D (53901_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD28E | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Double used Parameter CRC (0xXX). Info: 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD28E (53902_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD28F | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Encoder Voltage not enabled. State: 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD28F (53903_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD290 | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Encoder data buffer overrun. State: 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD290 (53904_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD291 | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Cannot read Encoder info block. Return Code: 0xXX Info: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD291 (53905_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD292 | Secondary MC: SAFETY FEEDBACK Invalid drive application data received. Module Id exceeded: II Expected max: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD292 (53906_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD293 | Secondary MC: SAFETY FEEDBACK Invalid drive application data received. Data length too long: II Expected max: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD293 (53907_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD294 | Secondary MC: SAFETY FEEDBACK Invalid drive application data received. Data length too short: II Expected min: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD294 (53908_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD295 | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Invalid drive application data received. Not allowed in this state: II Command: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD295 (53909_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD296 | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Error during position calculation. Info: 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD296 (53910_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD297 | Secondary MC: SAFETY FEEDBACK Invalid Safety FPGA interface version. Info: 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD297 (53911_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD298 | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Invalid Safedrive Settings Parameter II. value: 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD298 (53912_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD299 | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Not supported by this firmware. CRC: 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD299 (53913_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD29A | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Safe user parameter position shift value is too large. SingleturnPositionBits: II PositionShiftValue: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD29A (53914_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD29B | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Motor exchange cannot performed. Stored and current Encoder Parameter mismatch (Subidx: II). Current Encoder Index: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD29B (53915_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD29C | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Motor exchange cannot performed because other module II is in fault state with errorcode 0xXX

Diagnostic code	Class	Type	Standard reaction	Reset
0xD29C (53916_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD29D | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Motor exchange detected and successfully done.

Diagnostic code	Class	Type	Standard reaction	Reset
0xD29D (53917_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD29E | Secondary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: EnableForSetReferencingPosition is disabled but reference position is not zero. Ref SingleturnPos: II RefMultiturnPos: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD29E (53918_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD29F | Secondary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: MinimumReferencePostion (Singleturn:0xXX Multiturn:II) is larger than MaximumReferencePosition

Diagnostic code	Class	Type	Standard reaction	Reset
0xD29F (53919_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD2A0 | Secondary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: ReferenceSafePosition (Singleturn:0xXX Multiturn:II) is too small. Position exceeded minimum Range

Diagnostic code	Class	Type	Standard reaction	Reset
0xD2A0 (53920_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD2A1 | Secondary MC: SAFETY FEEDBACK SafeUserParameter: Cyclic FRAM data size is not large enough. Allocated size: II Requested size: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD2A1 (53921_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD2A2 | Secondary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: Difference between minimal and maximal configured position is too large. Difference: Singleturn:0xXX Multiturn:II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD2A2 (53922_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD2A3 | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Referencing of position in automatic mode is required. No stored position found.

Diagnostic code	Class	Type	Standard reaction	Reset
0xD2A3 (53923_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD2A4 | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Referencing of position cannot be achieved because motor speed is too high. current Speed: II configured limit: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD2A4 (53924_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD2A5 | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Position deviation on startup is too large. Difference: Singleturn:0xXX Multiturn:II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD2A5 (53925_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD2A6 | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Referenced position exceeded configured minimum range. Current position: Singleturn:0xXX Multiturn:II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD2A6 (53926_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD2A7 | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Referenced position exceeded configured maximum range. Current position: Singleturn:0xXX Multiturn:II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD2A7 (53927_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD2A8 | Secondary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: ReferenceSafePosition (Singleturn:0xXX Multiturn:II) is too large. Position exceeded maximum Range

Diagnostic code	Class	Type	Standard reaction	Reset
0xD2A8 (53928_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD2A9 | Secondary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: Referencing Optional Parameter size is invaild. Info: 0xXX. 0xXX.

Diagnostic code	Class	Type	Standard reaction	Reset
0xD2A9 (53929_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD2AA | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Invalid feedback configuration. Same encoder type on primary and secondary feedback is not permitted. Other Module: II type:II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD2AA (53930_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD2AB | Secondary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: Invalid referencing operation mode selected: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD2AB (53931_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD2AC | Secondary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: ManualReferencing option and SpeedatReferencePosition is not zero. value: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD2AC (53932_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD2AD | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Position Referencing is not supported because no Multiturn Feedback detected.

Diagnostic code	Class	Type	Standard reaction	Reset
0xD2AD (53933_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD2AE | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Shifted Singleturn Position exceeds 32bit. SingleturnPosBits: II PositionShiftBits: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD2AE (53934_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD2AF | Secondary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: Online change of Referencing mode is not permitted. Current: II New: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD2AF (53935_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD2B0 | Secondary MC: SAFETY FEEDBACK Module: 0xXX. Manual Referencing requires download of new Safe User Parameter.

Diagnostic code	Class	Type	Standard reaction	Reset
0xD2B0 (53936_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD2B1 | Secondary MC: SAFETY FEEDBACK Module: 0xXX. FPGA type is not supported by current Firmware. Protocol reported: II II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD2B1 (53937_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD2B2 | Secondary MC: SAFETY FEEDBACK Module: 0xXX. EnDat3 Feedback is not supported by Hardware.

Diagnostic code	Class	Type	Standard reaction	Reset
0xD2B2 (53938_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD2B3 | Secondary MC: SAFETY FEEDBACK Module: 0xXX. The stored encoder Id (II) did not match with the expected id (II). Maybe the axis is reversed.

Diagnostic code	Class	Type	Standard reaction	Reset
0xD2B3 (53939_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD2B4 | Secondary MC: SAFETY FEEDBACK Module: 0xXX. 64bit calculation is needed for position verification and may result in long safety cycle execution time (Return Code: 0xXX).

Diagnostic code	Class	Type	Standard reaction	Reset
0xD2B4 (53940_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD300 | Safe Motion Axis A Diag Message 1

Diagnostic code	Class	Type	Standard reaction	Reset
0xD300 (54016_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD301 | Safe Motion Axis A Diag Message 2

Diagnostic code	Class	Type	Standard reaction	Reset
0xD301 (54017_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD302 | Safe Motion Axis A Diag Message 3

Diagnostic code	Class	Type	Standard reaction	Reset
0xD302 (54018_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD303 | Safe Motion Axis A Diag Message 4

Diagnostic code	Class	Type	Standard reaction	Reset
0xD303 (54019_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD304 | Safe Motion Axis A Diag Message 5

Diagnostic code	Class	Type	Standard reaction	Reset
0xD304 (54020_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD305 | Safe Motion Axis A Diag Message 6

Diagnostic code	Class	Type	Standard reaction	Reset
0xD305 (54021_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD306 | Safe Motion Axis A Diag Message 7

Diagnostic code	Class	Type	Standard reaction	Reset
0xD306 (54022_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD307 | Safe Motion Axis A Diag Message 8

Diagnostic code	Class	Type	Standard reaction	Reset
0xD307 (54023_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD308 | Safe Motion Axis A Diag Message 9

Diagnostic code	Class	Type	Standard reaction	Reset
0xD308 (54024_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD309 | Safe Motion Axis A Diag Message 10

Diagnostic code	Class	Type	Standard reaction	Reset
0xD309 (54025_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD30A | Safe Motion Axis A Diag Message 11

Diagnostic code	Class	Type	Standard reaction	Reset
0xD30A (54026_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD30B | Safe Motion Axis A Diag Message 12

Diagnostic code	Class	Type	Standard reaction	Reset
0xD30B (54027_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD30C | Safe Motion Axis A Diag Message 13

Diagnostic code	Class	Type	Standard reaction	Reset
0xD30C (54028_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD30D | Safe Motion Axis A Diag Message 14

Diagnostic code	Class	Type	Standard reaction	Reset
0xD30D (54029_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD30E | Safe Motion Axis A Diag Message 15

Diagnostic code	Class	Type	Standard reaction	Reset
0xD30E (54030_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD30F | Safe Motion Axis A Diag Message 16

Diagnostic code	Class	Type	Standard reaction	Reset
0xD30F (54031_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD310 | Safe Motion Axis B Diag Message 1

Diagnostic code	Class	Type	Standard reaction	Reset
0xD310 (54032_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD311 | Safe Motion Axis B Diag Message 2

Diagnostic code	Class	Type	Standard reaction	Reset
0xD311 (54033_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD312 | Safe Motion Axis B Diag Message 3

Diagnostic code	Class	Type	Standard reaction	Reset
0xD312 (54034_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD313 | Safe Motion Axis B Diag Message 4

Diagnostic code	Class	Type	Standard reaction	Reset
0xD313 (54035_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD314 | Safe Motion Axis B Diag Message 5

Diagnostic code	Class	Type	Standard reaction	Reset
0xD314 (54036_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD315 | Safe Motion Axis B Diag Message 6

Diagnostic code	Class	Type	Standard reaction	Reset
0xD315 (54037_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD316 | Safe Motion Axis B Diag Message 7

Diagnostic code	Class	Type	Standard reaction	Reset
0xD316 (54038_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD317 | Safe Motion Axis B Diag Message 8

Diagnostic code	Class	Type	Standard reaction	Reset
0xD317 (54039_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD318 | Safe Motion Axis B Diag Message 9

Diagnostic code	Class	Type	Standard reaction	Reset
0xD318 (54040_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD319 | Safe Motion Axis B Diag Message 10

Diagnostic code	Class	Type	Standard reaction	Reset
0xD319 (54041_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD31A | Safe Motion Axis B Diag Message 11

Diagnostic code	Class	Type	Standard reaction	Reset
0xD31A (54042_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD31B | Safe Motion Axis B Diag Message 12

Diagnostic code	Class	Type	Standard reaction	Reset
0xD31B (54043_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD31C | Safe Motion Axis B Diag Message 13

Diagnostic code	Class	Type	Standard reaction	Reset
0xD31C (54044_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD31D | Safe Motion Axis B Diag Message 14

Diagnostic code	Class	Type	Standard reaction	Reset
0xD31D (54045_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD31E | Safe Motion Axis B Diag Message 15

Diagnostic code	Class	Type	Standard reaction	Reset
0xD31E (54046_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD31F | Safe Motion Axis B Diag Message 16

Diagnostic code	Class	Type	Standard reaction	Reset
0xD31F (54047_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD320 | The Safety Control Task watchdog has bveen expired

Diagnostic code	Class	Type	Standard reaction	Reset
0xD320 (54048_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD400 | Safedrive Axis A Diag Message 1

Diagnostic code	Class	Type	Standard reaction	Reset
0xD400 (54272_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD401 | Safedrive Axis A Diag Message 2

Diagnostic code	Class	Type	Standard reaction	Reset
0xD401 (54273_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD402 | Safedrive Axis A Diag Message 3

Diagnostic code	Class	Type	Standard reaction	Reset
0xD402 (54274_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD403 | Safedrive Axis A Diag Message 4

Diagnostic code	Class	Type	Standard reaction	Reset
0xD403 (54275_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD404 | Safedrive Axis A Diag Message 5

Diagnostic code	Class	Type	Standard reaction	Reset
0xD404 (54276_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD405 | Safedrive Axis A Diag Message 6

Diagnostic code	Class	Type	Standard reaction	Reset
0xD405 (54277_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD406 | Safedrive Axis A Diag Message 7

Diagnostic code	Class	Type	Standard reaction	Reset
0xD406 (54278_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD407 | Safedrive Axis A Diag Message 8

Diagnostic code	Class	Type	Standard reaction	Reset
0xD407 (54279_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD408 | Safedrive Axis A Diag Message 9

Diagnostic code	Class	Type	Standard reaction	Reset
0xD408 (54280_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD409 | Safedrive Axis A Diag Message 10

Diagnostic code	Class	Type	Standard reaction	Reset
0xD409 (54281_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD40A | Safedrive Axis A Diag Message 11

Diagnostic code	Class	Type	Standard reaction	Reset
0xD40A (54282_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD40B | Safedrive Axis A Diag Message 12

Diagnostic code	Class	Type	Standard reaction	Reset
0xD40B (54283_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD40C | Safedrive Axis A Diag Message 13

Diagnostic code	Class	Type	Standard reaction	Reset
0xD40C (54284_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD40D | Safedrive Axis A Diag Message 14

Diagnostic code	Class	Type	Standard reaction	Reset
0xD40D (54285_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD40E | Safedrive Axis A Diag Message 15

Diagnostic code	Class	Type	Standard reaction	Reset
0xD40E (54286_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD40F | Safedrive Axis A Diag Message 16

Diagnostic code	Class	Type	Standard reaction	Reset
0xD40F (54287_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD410 | Safedrive Axis B Diag Message 1

Diagnostic code	Class	Type	Standard reaction	Reset
0xD410 (54288_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD411 | Safedrive Axis B Diag Message 2

Diagnostic code	Class	Type	Standard reaction	Reset
0xD411 (54289_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD412 | Safedrive Axis B Diag Message 3

Diagnostic code	Class	Type	Standard reaction	Reset
0xD412 (54290_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD413 | Safedrive Axis B Diag Message 4

Diagnostic code	Class	Type	Standard reaction	Reset
0xD413 (54291_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD414 | Safedrive Axis B Diag Message 5

Diagnostic code	Class	Type	Standard reaction	Reset
0xD414 (54292_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD415 | Safedrive Axis B Diag Message 6

Diagnostic code	Class	Type	Standard reaction	Reset
0xD415 (54293_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD416 | Safedrive Axis B Diag Message 7

Diagnostic code	Class	Type	Standard reaction	Reset
0xD416 (54294_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD417 | Safedrive Axis B Diag Message 8

Diagnostic code	Class	Type	Standard reaction	Reset
0xD417 (54295_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD418 | Safedrive Axis B Diag Message 9

Diagnostic code	Class	Type	Standard reaction	Reset
0xD418 (54296_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD419 | Safedrive Axis B Diag Message 10

Diagnostic code	Class	Type	Standard reaction	Reset
0xD419 (54297_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD41A | Safedrive Axis B Diag Message 11

Diagnostic code	Class	Type	Standard reaction	Reset
0xD41A (54298_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD41B | Safedrive Axis B Diag Message 12

Diagnostic code	Class	Type	Standard reaction	Reset
0xD41B (54299_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD41C | Safedrive Axis B Diag Message 13

Diagnostic code	Class	Type	Standard reaction	Reset
0xD41C (54300_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD41D | Safedrive Axis B Diag Message 14

Diagnostic code	Class	Type	Standard reaction	Reset
0xD41D (54301_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD41E | Safedrive Axis B Diag Message 15

Diagnostic code	Class	Type	Standard reaction	Reset
0xD41E (54302_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD41F | Safedrive Axis B Diag Message 16

Diagnostic code	Class	Type	Standard reaction	Reset
0xD41F (54303_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD421 | StartFrameCounter is wrong (Expected: II, Received: II, Violation-Counter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xD421 (54305_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD422 | StartFrameCounter (II) is unequal EndFrameCounter (II), Violation-Counter: II

Diagnostic code	Class	Type	Standard reaction	Reset
0xD422 (54306_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

0xD424 | CRC-Error in SPI communication to Drive-Application (Code 1: II, Code 2: II, Violation-Counter: II)

Diagnostic code	Class	Type	Standard reaction	Reset
0xD424 (54308_{dez})	undefined	undefined Type	undefined Reaction	undefined Reset

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