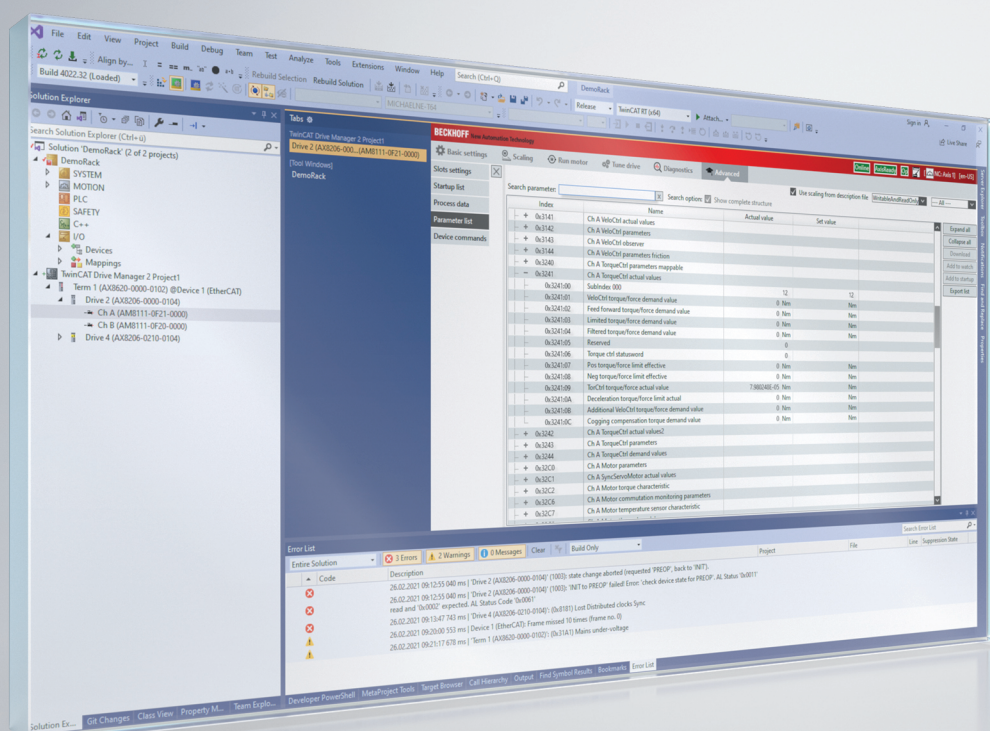


BECKHOFF New Automation Technology

Diagnostic Messages | EN

AMP8000

Distributed servo drives



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1 Standard-Messages

1.1 0000, No Error

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

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0000	0
Class	Type
Info	Information
Standard Reaction	Reset
No	Information: No reset required.
Possible Causes	Solutions
An Axis entered the error free state.	

Internal: 0x0000, No Error

1.2 5190, Test 5V supply failed

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5190	20880
Class	Type
Error	Error
Standard Reaction	Reset
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 AX8000 to the Beckhoff branch office that is responsible for you.

Internal: *0x5190, Test 5V supply failed*

1.3 5193, Need cold start

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5193	20883
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: *0x5193, Need cold start*

1.4 5194, Obsolete bootloader detected. Please update.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5194	20884
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x5194, Obsolete bootloader detected. Please update.

1.5 5195, Something went wrong during the last firmware update. Please try again.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5195	20885
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x5195, Something went wrong during the last firmware update. Please try again.

1.6 5196, The hardware isn't supported by this firmware.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5196	20886
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x5196, *The hardware isn't supported by this firmware.*

1.7 5580, Read failure EEPROM

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 (Hex.)	Diagnostic Code (Dez.)
5580	21888
Class	Type
Error	Error
Standard Reaction	Reset
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 AX8000 to the Beckhoff branch office that is responsible for you.

Internal: 0x5580, Read failure EEPROM. Pcb ID %u.

1.8 5581, Checksum failure EEPROM

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 (Hex.)	Diagnostic Code (Dez.)
5581	21889
Class	Type
Error	Error
Standard Reaction	Reset
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 AX8000 to the Beckhoff branch office that is responsible for you.

Internal: 0x5581, Checksum failure EEPROM. Pcb ID %u.

1.9 5582, EEPROM contains blank Data

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 (Hex.)	Diagnostic Code (Dez.)
5582	21890
Class	Type
Warning	Warning
Standard Reaction	Reset
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.	

Internal: 0x5582, EEPROM contains blank Data. Pcb ID %u.

1.10 5583, Unexpected EEPROM

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 (Hex.)	Diagnostic Code (Dez.)
5583	21891
Class	Type
Warning	Warning
Standard Reaction	Reset
No	Warning: No reset required.
Possible Causes	Solutions
This Message is generated instead of 0x5585, if you are using a debug Firmware.	

Internal: 0x5583, Unexpected EEPROM Pcb ID %u.

1.11 5584, EEPROM contains blank Data

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 (Hex.)	Diagnostic Code (Dez.)
5584	21892
Class	Type
Error	Error
Standard Reaction	Reset
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 AX8000 to the Beckhoff branch office that is responsible for you.

Internal: 0x5584, EEPROM contains blank Data. Pcb ID %u.

1.12 5585, Unexpected EEPROM

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 (Hex.)	Diagnostic Code (Dez.)
5585	21893
Class	Type
Error	Error
Standard Reaction	Reset
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 AX8000 to the Beckhoff branch office that is responsible for you.

Internal: 0x5585, Unexpected EEPROM Pcb ID %u.

1.13 5586, Restored Errormessages from persistent memory

The persistent Memory contains an errorlog. The messages are re-stored during power on phase.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5586	21894
Class	Type
Info	Information
Standard Reaction	Reset
No	Information: No reset required.

Internal: 0x5586, Restored Errormessages from persistent memory

1.14 5587, 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 (Hex.)	Diagnostic Code (Dez.)
5587	21895
Class	Type
Warning	Warning
Standard Reaction	Reset
No	Warning: No reset required.

Internal: *0x5587, The internal eeprom data synchronization (Id=0x%x) failed!*

1.15 5588, Detected incompatible Pcb

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5588	21896
Class	Type
Error	Error
Standard Reaction	Reset
Torque off	A reset is not possible. The drive detected a fatal hard- or software error.
Possible Causes	Solutions
Internal device incompatibility	Firmware download

Internal: 0x5588, Detected a internal device incompatibiliy! Patch ESI revision number high to 9999 and add category entry FwUpdateReq. Arg=%u

1.16 5590, Detected incompatible Pcb

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 (Hex.)	Diagnostic Code (Dez.)
5590	21904
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x5590, Detected incompatible Pcb at ID %u.

1.17 5591, Identity incompatible to a Pcb

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 (Hex.)	Diagnostic Code (Dez.)
5591	21905
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x5591, ESC EEPROM Identity is incompatible to Pcb ID %u.

1.18 5592, 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 (Hex.)	Diagnostic Code (Dez.)
5592	21906
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x5592, ESC EEPROM Pcb ID %u FirmwareIndex is incompatible to this Firmware.

1.19 5593, Structure Version 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 (Hex.)	Diagnostic Code (Dez.)
5593	21907
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x5593, ESC EEPROM Pcb ID %u Structure Version is incompatible to this Firmware.

1.20 5594, Simulating persistent data features.

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

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5594	21908
Class	Type
Warning	Warning
Standard Reaction	Reset
No	Warning: No reset required.
Possible Causes	Solutions
Persistent Memory is not supported in the early Hardware Versions.	

Internal: 0x5594, Simulating persistent data features.

1.21 5596, Storing of persistent data failed.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5596	21910
Class	Type
Error	Error
Standard Reaction	Reset
Nc handling	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
There is an internal hardware error.	Send the AX8000 to the Beckhoff branch office that is responsible for you.

Internal: 0x5596, Storing of persistent data failed.

1.22 5597, Unsupported prototype hardware.

The Firmware detected an unsupported prototype Hardware.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5597	21911
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: *0x5597, Unsupported prototype hardware.*

1.23 5598, Identity incompatible to Device

Detected incompatible device type for this ESC EEPROM.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5598	21912
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x5598, ESC EEPROM Identity is incompatible to Device.

1.24 5599, Identity incompatible to a Device

Detected incompatible device type for this ESC EEPROM.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5599	21913
Class	Type
Warning	Warning
Standard Reaction	Reset
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.

Internal: 0x5599, ESC EEPROM Identity is incompatible to Device.

1.25 559A, Read failure EEPROM

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 (Hex.)	Diagnostic Code (Dez.)
559A	21914
Class	Type
Warning	Warning
Standard Reaction	Reset
No	Warning: No reset required.
Possible Causes	Solutions
There is an internal hardware error.	Send the AX8000 to the Beckhoff branch office that is responsible for you.

Internal: 0x559A, Read failure EEPROM. Pcb ID %u.

1.26 559B, Unsupported Pcb type

Detected unsupported Pcb:

- ID 0: ControlPcb
- ID 1: FrontPcb
- ID 2: AdditionalAxisPcb
- ID 3: DisplayPcb
- ID 6: SafetyPcb
- ID 7: CpuPcb

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
559B	21915
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x559B, Unsupported Pcb type. Pcb ID %u.

1.27 559E, Unsupported FPGA configuration

Detected unsupported FPGA

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
559E	21918
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x559E, Unsupported FPGA configuration! Found ver=%u, patch=%u, Required ver=%u, patch=%u

1.28 589C, Read failure EEPROM

The content of the persistent data memory seems to be corrupted.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
589C	22684
Class	Type
Error	Error
Standard Reaction	Reset
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 AX8000 to the Beckhoff branch office that is responsible for you.

Internal: *0x589C, Persistent data seems to be corrupted. (0x%x)*

1.29 589D, Prototype hardware might not be supported with actual safety firmware

Prototype hardware might not be supported with actual safety firmware.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
589D	22685
Class	Type
Warning	Warning
Standard Reaction	Reset
No	Warning: No reset required.

Internal: 0x589D, Prototype hardware might not be supported with actual safety firmware

1.30 58A1, Persistent data access error

The persistent data memory access failed.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
58A1	22689
Class	Type
Error	Error
Standard Reaction	Reset
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 AX8000 to the Beckhoff branch office that is responsible for you.

Internal: *0x58A1, Persistent data access error. (0x%x)*

1.31 6180, Internal Software Error Type A

Fatal Software Error.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6180	24960
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x6180, Internal Software Error Type A, Additional Error-code 0x%x

1.32 6181, Internal Software Error Type B

Fatal Software Error.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6181	24961
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x6181, Internal Software Error Type B, Additional Error-code 0x%x

1.33 6182, Internal Software Error Type C

Fatal Software Error.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6182	24962
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x6182, Internal Software Error Type C, Additional Error-code 0x%x

1.34 6183, FPU Exception, FPU status 0xXX

Fatal Software Error.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6183	24963
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x6183, FPU Exception, FPU status 0x%x

1.35 6190, Init Timeout

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6190	24976
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: *0x6190, Init Timeout, Slotnumber %u*

1.36 6382, Illegal Slotconfiguration. Slot is empty.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6382	25474
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x6382, Illegal Slotconfiguration. Slot %u is empty.

1.37 6383, Illegal Slotconfiguration. Double Feedback Selection.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6383	25475
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x6383, *Illegal Slotconfiguration. Double Feedback Selection.*

1.38 6384, Illegal Slotconfiguration. Slot has to be empty.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6384	25476
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x6384, Illegal Slotconfiguration. Slot %u has to be empty.

1.39 6385, Illegal Slotconfiguration. Unsupported Module.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6385	25477
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x6385, Illegal Slotconfiguration. Slot %u contains unsupported ModuleIdent 0x%x.

1.40 63B0, Module in slot II: Transition Pre-Op to Safe-Op (ECat) not successful (hr=0xXX)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
63B0	25520
Class	Type
Error	Error
Standard Reaction	Reset
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.	

Internal: 0x63B0, Module in slot %d: Transition Pre-Op to Safe-Op (ECat) not successful (hr=0x%X)

1.41 63B1, Module in slot II: Transition Safe-Op to Op (ECat) not successful (hr=0xXX)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
63B1	25521
Class	Type
Error	Error
Standard Reaction	Reset
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.	

Internal: 0x63B1, Module in slot %d: Transition Safe-Op to Op (ECat) not successful (hr=0x%X)

1.42 63B2, Module in slot II: Transition Op to Safe-Op (ECat) not successful (hr=0xXX)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
63B2	25522
Class	Type
Error	Error
Standard Reaction	Reset
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.	

Internal: 0x63B2, Module in slot %d: Transition Op to Safe-Op (ECat) not successful (hr=0x%X)

1.43 63B3, Module in slot II: Transition Safe-Op to Pre-Op (ECat) not successful (hr=0xXX)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
63B3	25523
Class	Type
Error	Error
Standard Reaction	Reset
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.	

Internal: 0x63B3, Module in slot %d: Transition Safe-Op to Pre-Op (ECat) not successful (hr=0x%X)

1.44 63B4, Illegal Slotconfiguration. The selected feedback combination is not supported.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
63B4	25524
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x63B4, Illegal Slotconfiguration. The selected feedback combination is not supported.

1.45 8180, System restart or sync lost

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8180	33152
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x8180, System restart or sync lost

1.46 8181, Lost Distributed clocks Sync

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8181	33153
Class	Type
Error	Communication error
Standard Reaction	Reset
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.

Internal: *0x8181, Lost Distributed clocks Sync*

1.47 8186, Invalid sync out unit configuration. Actual value is 0xXX and has to be 0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8186	33158
Class	Type
Error	Communication error
Standard Reaction	Reset
Closed loop ramp	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
Invalid sync out unit configuration	Check your EtherCAT Master configuration.

Internal: 0x8186, Invalid sync out unit configuration. Actual value is 0x%x and has to be 0x%x.

1.48 A000, Transition Pre-Op to Safe-Op not successful. Sync Manager Length Error.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A000	40960
Class	Type
Error	Error
Standard Reaction	Reset
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 Ether-CAT Device Description XML-File.

Internal: 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

1.49 A001, Transition Pre-Op to Safe-Op not successful. Sync Manager Address Error.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A001	40961
Class	Type
Error	Error
Standard Reaction	Reset
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 Ether-CAT Device Description XML-File.

Internal: 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

1.50 A002, Transition Pre-Op to Safe-Op not successful. Sync Manager Settings Error.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A002	40962
Class	Type
Error	Error
Standard Reaction	Reset
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 Ether-CAT Device Description XML-File.

Internal: 0xA002, Transition Pre-Op to Safe-Op not successful. Sync Manager %u Settings Error. 0x%x

1.51 A003, Transition Pre-Op to Safe-Op not successful. Sync Manager Address Range overlap.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A003	40963
Class	Type
Error	Error
Standard Reaction	Reset
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 Ether-CAT Device Description XML-File.

Internal: 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

1.52 A004, Sync Manager is disabled and has a Size unequal zero.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A004	40964
Class	Type
Error	Error
Standard Reaction	Reset
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 Ether-CAT Device Description XML-File.

Internal: 0xA004, Sync Manager %u is disabled. Sync Manager Size %u and the Calculated Size %u shall be zero.

1.53 A005, Sync Manager Address is not multiple of 4.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A005	40965
Class	Type
Error	Error
Standard Reaction	Reset
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)

Internal: 0xA005, Sync Manager %u Address 0x%x is not multiple of 4.

1.54 A00B, Dynamic Sync Manager Address is not multiple of 4.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A00B	40971
Class	Type
Warning	Warning
Standard Reaction	Reset
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)

Internal: 0xA00B, Dynamic Sync Manager %u Address 0x%x is not multiple of 4.

1.55 A00C, Dynamic Sync Manager Address Range overlap.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A00C	40972
Class	Type
Warning	Warning
Standard Reaction	Reset
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 Ether-CAT Device Description XML-File.

Internal: 0xA00C, Dynamic Sync Manager %u Address Range 0x%x..0x%x overlaps Sync Manager %u Address Range 0x%x..0x%x

1.56 A00D, Dynamic Sync Manager Settings Error.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A00D	40973
Class	Type
Warning	Warning
Standard Reaction	Reset
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 Ether-CAT Device Description XML-File.

Internal: 0xA00D, Dynamic Sync Manager %u Settings Error. 0x%x

1.57 A00E, Dynamic Sync Manager Address Error.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A00E	40974
Class	Type
Warning	Warning
Standard Reaction	Reset
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 Ether-CAT Device Description XML-File.

Internal: 0xA00E, Dynamic Sync Manager %u Address Error. Requested Address=0x%x is not between Min=0x%x and Max=0x%x

1.58 A00F, Dynamic Sync Manager Length Error.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A00F	40975
Class	Type
Warning	Warning
Standard Reaction	Reset
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 Ether-CAT Device Description XML-File.

Internal: 0xA00F, Dynamic Sync Manager %u Length Error. Requested Length=0x%x is not between Min=0x%x and Max=0x%x

1.59 A010, SDO Complete Access Error: Object 0xXX/XX, SDO Abortcode 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A010	40976
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xA010, SDO Complete Access Error: Object 0x%x/%x, SDO Abortcode 0x%x

1.60 A011, Pdo Mapping Error: Unable to map Object (not possible).

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A011	40977
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xA011, Pdo Mapping Error: Unable to map Object 0x%x/
%x.(not possible) (SyncManager %u)

1.61 A013, Pdo Mapping Error: Double Mapping of Object.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A013	40979
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xA013, Pdo Mapping Error: Double Mapping of Object
 0x%x/%x (SyncManager %u)

1.62 A015, Pdo Mapping Error: Unable to map Object (no Mappings left).

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A015	40981
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xA015, Pdo Mapping Error: Unable to map Object 0x%x/
%x.(no Mappings left) (SyncManager %u)

1.63 A017, Pdo Mapping Error: Object has to be mapped always.

The Object has to be mapped always.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A017	40983
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xA017, Pdo Mapping Error: Object 0x%x/%x has to be mapped always.

1.64 A019, Pdo Mapping Error: Object has to be mapped because of modes of operation.

Your actual requested Modes of Operation requires the mentioned Object in the Mapping.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A019	40985
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xA019, Pdo Mapping Error: Object 0x%x/%x has to be mapped for modes of operation %d.

1.65 A01B, Pdo BitMapping Error: Object A is not next to Object B.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A01B	40987
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xA01B, Pdo BitMapping Error: Object 0x%x/%x is not next to Object 0x%x/%x. (SyncManager %u)

1.66 A01D, Pdo BitMapping Error: Can not Transform Bit-Mappings to Byte-Mappings.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A01D	40989
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xA01D, Pdo BitMapping Error: Can not Transform Bit-Mappings to Byte-Mappings. (SyncManager %u)

1.67 A01F, Pdo Mapping Error: Invalid Oversampling Factor.

The oversampling factor of the mentioned Object is not possible.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A01F	40991
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xA01F, Pdo Mapping Error: Invalid Oversampling Factor (%u) Object 0x%x/%x (SyncManager %u).

1.68 A021, Pdo Mapping Error: Oversampling is not allowed.

Oversampling is not allowed for the mentioned Object.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A021	40993
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xA021, Pdo Mapping Error: Oversampling is not allowed for Object 0x%x/%x (SyncManager %u).

1.69 A023, Pdo Assignment Error

The Pdo Assignment List contains a Pdo which doesn't exist.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A023	40995
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xA023, Pdo Assignment Error: Assignment 0x%x%x contains a Pdo 0x%x which doesn't exist.

1.70 A031, DynPdo Mapping Warning: Unable to map Object (not possible).

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A031	41009
Class	Type
Warning	Warning
Standard Reaction	Reset
No	Warning: No reset required.
Possible Causes	Solutions
A mapping Parameter is not supported of this Device.	Please check, your mapping Configuration.

Internal: 0xA031, DynPdo Mapping Warning: Unable to map Object 0x%x/%x.(not possible) (SyncManager %u)

1.71 A033, DynPdo Mapping Warning: Double Mapping of Object.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A033	41011
Class	Type
Warning	Warning
Standard Reaction	Reset
No	Warning: No reset required.
Possible Causes	Solutions
A mapping Parameter is not supported of this Device.	Please check, your mapping Configuration.

Internal: 0xA033, DynPdo Mapping Warning: Double Mapping of Object 0x%x/%x (SyncManager %u)

1.72 A035, DynPdo Mapping Warning: Unable to map Object (no Mappings left).

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A035	41013
Class	Type
Warning	Warning
Standard Reaction	Reset
No	Warning: No reset required.
Possible Causes	Solutions
A mapping Parameter is not supported of this Device.	Please check, your mapping Configuration.

Internal: 0xA035, DynPdo Mapping Warning: Unable to map Object 0x%x/%x. (no Mappings left) (SyncManager %u)

1.73 A037, DynPdo Mapping Warning: Object has to be mapped always.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A037	41015
Class	Type
Warning	Warning
Standard Reaction	Reset
No	Warning: No reset required.
Possible Causes	Solutions
A mapping Parameter is not supported of this Device.	Please check, your mapping Configuration.

Internal: 0xA037, DynPdo Mapping Warning: Object 0x%x/%x has to be mapped always.

1.74 A039, DynPdo Mapping Warning: Object has to be mapped because of modes of operation.

Your actual requested Modes of Operation requires the mentioned Object in the Mapping.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A039	41017
Class	Type
Warning	Warning
Standard Reaction	Reset
No	Warning: No reset required.
Possible Causes	Solutions
A mapping Parameter is not supported of this Device.	Please check, your mapping Configuration.

Internal: 0xA039, DynPdo Mapping Warning: Object 0x%x/%x has to be mapped for modes of operation %d.

1.75 A03B, DynPdo BitMapping Warning: Object A is not next to Object B.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A03B	41019
Class	Type
Warning	Warning
Standard Reaction	Reset
No	Warning: No reset required.
Possible Causes	Solutions
A mapping Parameter is not supported of this Device.	Please check, your mapping Configuration.

Internal: 0xA03B, DynPdo BitMapping Warning: Object 0x%x/%x is not next to Object 0x%x/%x. (SyncManager %u)

1.76 A03D, DynPdo BitMapping Warning: Can not Transform Bit-Mappings to Byte-Mappings.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A03D	41021
Class	Type
Warning	Warning
Standard Reaction	Reset
No	Warning: No reset required.
Possible Causes	Solutions
A mapping Parameter is not supported of this Device.	Please check, your mapping Configuration.

Internal: 0xA03D, DynPdo BitMapping Warning: Can not Transform Bit-Mappings to Byte-Mappings. (SyncManager %u)

1.77 A03F, DynPdo Mapping Warning: Invalid Oversampling Factor.

The oversampling factor of the mentioned Object is not possible.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A03F	41023
Class	Type
Warning	Warning
Standard Reaction	Reset
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.

Internal: 0xA03F, DynPdo Mapping Warning: Invalid Oversampling Factor (%u) Object 0x%x/%x (SyncManager %u).

1.78 A041, DynPdo Mapping Warning: Oversampling is not allowed.

Oversampling is not allowed for the mentioned Object.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A041	41025
Class	Type
Warning	Warning
Standard Reaction	Reset
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.

Internal: 0xA041, DynPdo Mapping Warning: Oversampling is not allowed for Object 0x%x/%x (SyncManager %u).

1.79 A043, DynPdo Assignment Warning

The Pdo Assignment List contains a Pdo which doesn't exist.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A043	41027
Class	Type
Warning	Warning
Standard Reaction	Reset
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.

Internal: 0xA043, DynPdo Assignment Warning: Assignment 0x%x%x contains a Pdo 0x%x which doesn't exist.

1.80 A080, 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 (Hex.)	Diagnostic Code (Dez.)
A080	41088
Class	Type
Error	Error
Standard Reaction	Reset
Axis is inoperable	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
The internal TwinCAT Runtime is in ConfigMode.	

Internal: *0xA080, Safe-Op is not possible because the local TwinCAT Runtime is in ConfigMode.*

1.81 A081, Transition Pre-Op to Safe-Op not successful. Safetycard not detected.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A081	41089
Class	Type
Error	Error
Standard Reaction	Reset
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 AX8000 to the Beckhoff branch office that is responsible for you.

Internal: 0xA081, Transition Pre-Op to Safe-Op not successful.
Safetycard not detected.

1.82 A082, EtherCAT Slave Stack Error:

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A082	41090
Class	Type
Error	Error
Standard Reaction	Reset
Closed loop ramp	Execute Reset-Command (Fault reset).

Internal: 0xA082, EtherCAT Slave Stack Error: AI Status Code 0x%x

1.83 FFFD, Debug firmware, replace "As soon as possible"!

Debug firmware: Replace ASAP!

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FFFD	65533
Class	Type
Info	Information
Standard Reaction	Reset
No	Information: No reset required.

Internal: *0xFFFD, Debug firmware, replace "As soon as possible"!*

1.84 FFFF, Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FFFF	65535
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xFFFF, Internal Error, Additional Errorcode 0x%x

2 Diagmessages of DeviceMainSlot

2.1 3210, DC link overvoltage

DC link overvoltage because the brake power of the power supply module is too low.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3210	12816
Class	Type
Error	Overvoltage error
Standard Reaction	Reset
Torque off	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
Parameterization of the brake chopper from the power supply module is wrong.	Check the parameterization of the brake chopper from the power supply module.
Wrong selection of the brake resistor from the power supply module.	Check the resistance of the brake resistor. Check the power of the brake resistor.
The brake resistor from the power supply module is defective	Measure the current resistance of the brake resistor.

Internal: 0x3210, DC link overvoltage

2.2 4380, Fan speed seems to be zero.

Fan speed seems to be zero.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
4380	17280
Class	Type
Warning	Warning
Standard Reaction	Reset
No	Warning: No reset required.
Possible Causes	Solutions
The velocity signal of the cooling fan is zero.	Please check the cooling fan.

Internal: *0x4380, Fan speed seems to be zero.*

2.3 5112, Supply undervoltage: supply +24V

Supply undervoltage: supply +24V

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5112	20754
Class	Type
Error	Error
Standard Reaction	Reset
Torque off	A fatal error occurred. A device reboot is required.
Possible Causes	Solutions
The 24V Supply Voltage went under 18V.	Check your power supply.

Internal: 0x5112, Supply undervoltage: supply +24V

2.4 5181, Power supply controlword, torque off order

The power supply device is in an error state and sent a torque off order to the connected Axes.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5181	20865
Class	Type
Error	Error
Standard Reaction	Reset
Torque off	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
Something went wrong in the power supply device.	Please check the messages of the power supply device.

Internal: *0x5181, Power supply controlword, torque off order*

2.5 5182, Power supply controlword, live counter inactive

The power supply device controlword contains a live counter which didn't increment for the maximum accepted timespan.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5182	20866
Class	Type
Error	Error
Standard Reaction	Reset
Closed loop ramp	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
The Power supply status is not alive.	Please Check if the Power supply status is linked to the Supply Device and the Device is in EtherCAT OP state.

Internal: 0x5182, Power supply controlword, live counter inactive

2.6 5183, Power supply controlword, NC handling order

The power supply device is in an error state and sent a NC handling order to the connected Axes.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5183	20867
Class	Type
Error	Error
Standard Reaction	Reset
Nc handling	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
Something went wrong in the power supply device.	Please check the messages of the power supply device.

Internal: *0x5183, Power supply controlword, NC handling order*

2.7 5185, Power supply controlword, non-regenerative brake order

The power supply device is in an error state and sent a non-regenerative brake order to the connected Axes.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5185	20869
Class	Type
Error	Error
Standard Reaction	Reset
Shorted coils brake	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
Something went wrong in the power supply device.	Please check the messages of the power supply device.

Internal: *0x5185, Power supply controlword, non-regenerative brake order*

2.8 5186, Power supply controlword, regenerative brake order

The power supply device is in an error state and sent a regenerative brake order to the connected Axes.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5186	20870
Class	Type
Error	Error
Standard Reaction	Reset
Closed loop ramp	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
Something went wrong in the power supply device.	Please check the messages of the power supply device.

Internal: *0x5186, Power supply controlword, regenerative brake order*

2.9 5192, Supply overvoltage: supply +24V

Supply overvoltage: supply +24V

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5192	20882
Class	Type
Error	Control voltage error
Standard Reaction	Reset
Nc handling	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
The 24V Supply Voltage went over 40V.	Check your 24V supply voltage.

Internal: 0x5192, Supply overvoltage: supply +24V

2.10 6320, Parameter error in Object 0xXX/XX

The mentioned parameter contains a not accepted value.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6320	25376
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x6320, Parameter error in Object 0x%x/%x

2.11 7194, The device output current exceeded the maximum allowed value.

The device output current exceeded the maximum allowed value.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7194	29076
Class	Type
Error	Error
Standard Reaction	Reset
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).

Internal: 0x7194, The device output current exceeded the maximum allowed value.

2.12 8780, Configured Sync1 Cycle Time is above Maximum

The configured Sync1 Cycle Time is above the maximum.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8780	34688
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x8780, Sync Controller: Configured Sync1 Cycle Time (%u ns) is above Maximum (%u ns).

2.13 8781, Configured Sync1 Cycle Time is below Minimum

The configured Sync1 Cycle Time is below the minimum.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8781	34689
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x8781, Sync Controller: Configured Sync1 Cycle Time (%u ns) is below Minimum (%u ns).

2.14 8782, Configured Sync1 Cycle Time is not a multiple of the Sync0 Cycle Time

The configured Sync1 Cycle Time is not a multiple of the Sync0 Cycle Time.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8782	34690
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x8782, Sync Controller: Configured Sync1 Cycle Time (%u ns) is not a multiple of the Sync0 Cycle Time (%u ns).

2.15 8783, Configured Sync0 Cycle Time is not legal

The configured Sync1 Cycle Time is not the default Cycle Time.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8783	34691
Class	Type
Error	Error
Standard Reaction	Reset
Axis is inoperable	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.

Internal: 0x8783, Sync Controller: Configured Sync0 Cycle Time (%u ns) is unequal %u ns.

2.16 A017, Pdo Mapping Error: Object has to be mapped always.

The Object has to be mapped always.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A017	40983
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xA017, Pdo Mapping Error: Object 0x%x/%x has to be mapped always.

2.17 FFFF, Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FFFF	65535
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xFFFF, Internal Error, Additional Errorcode 0x%x

3 Diagmessages of SafetySlot

3.1 0001, Primary MC: GLOBAL_Fault with Code 0xXX and Additional Code 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0001	1
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0001, Primary MC: GLOBAL_Fault with Code 0x%x and Additional Code 0x%x

3.2 0002, Primary MC: GLOBAL_Shutdown with Code 0xXX and Additional Code 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0002	2
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0002, Primary MC: GLOBAL_Shutdown with Code 0x%x and Additional Code 0x%x

3.3 0003, Secondary MC: GLOBAL_Fault with Code 0xXX and Additional Code 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0003	3
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0003, Secondary MC: GLOBAL_Fault with Code 0x%x and Additional Code 0x%x

3.4 0004, Secondary MC: GLOBAL_Shutdown with Code 0xXX and Additional Code 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0004	4
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0004, Secondary MC: GLOBAL_Shutdown with Code 0x%x and Additional Code 0x%x

3.5 0005, Primary MC: Stored GLOBAL_Fault with Code 0xXX and Additional Code 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0005	5
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0005, Primary MC: Stored GLOBAL_Fault with Code 0x%x and Additional Code 0x%x

3.6 0006, Secondary MC: Stored GLOBAL_Fault with Code 0xXX and Additional Code 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0006	6
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0006, Secondary MC: Stored GLOBAL_Fault with Code 0x%x and Additional Code 0x%x

3.7 0007, Diag-Message-Overflow: II messages got lost

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0007	7
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0007, Diag-Message-Overflow: %d messages got lost

3.8 0008, Primary MC: the CRC of the FRAM Data was wrong (Diag-Code=II)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0008	8
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0008, Primary MC: the CRC of the FRAM Data was wrong (Diag-Code=%d)

3.9 0009, Secondary MC: the CRC of the FRAM Data was wrong (Diag-Code=II)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0009	9
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0009, Secondary MC: the CRC of the FRAM Data was wrong (Diag-Code=%d)

3.10 0010, Reserved CfgData has to be zero st offset II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0010	16
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0010, Reserved CfgData has to be zero st offset %d

3.11 0011, The password is wrong

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0011	17
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0011, The password is wrong

3.12 0012, The user was not found

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0012	18
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0012, The user was not found

3.13 0013, The CRC of the login data does not match

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0013	19
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0013, The CRC of the login data does not match

3.14 0014, The serial number of the login data does not match

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0014	20
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0014, The serial number of the login data does not match

3.15 0015, The login watchdog has been expired

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0015	21
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0015, The login watchdog has been expired

3.16 0016, The user was logged out before

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0016	22
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0016, The user was logged out before

3.17 0017, The user has not sufficient access rights

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0017	23
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0017, The user has not sufficient access rights

3.18 0018, The reserved area of the CfgData was not 0

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0018	24
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0018, The reserved area of the CfgData was not 0

3.19 0019, The CRC of the CfgData was wrong

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0019	25
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0019, The CRC of the CfgData was wrong

3.20 001A, The user name is wrong at word offset 0xXX when changing the password

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
001A	26
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x001A, The user name is wrong at word offset 0x%x when changing the password

3.21 001B, The requested number of users is too big

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
001B	27
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x001B, The requested number of users is too big*

3.22 001D, The user update flags are wrong at word offset 0xXX when changing the password

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
001D	29
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x001D, The user update flags are wrong at word offset 0x%x when changing the password

3.23 001E, The wrong user (user II) is logged in when changing the password (user II found in the received data)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
001E	30
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x001E, The wrong user (user %d) is logged in when changing the password (user %d found in the received data)*

3.24 0021, the maximum Global-Shutdown counter was exceeded in the Vendor Data (maximum value: II, actual value: II)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0021	33
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0021, the maximum Global-Shutdown counter was exceeded in the Vendor Data (maximum value: %d, actual value: %d)

3.25 0080, Safety reports FSoE Group error on channel A

Safety reports FSoE Group error on channel A

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0080	128
Class	Type
Error	Safety Module initiated drive reaction
Standard Reaction	Reset
Closed loop ramp channel A	Execute Reset-Command (Fault reset).

Internal: 0x0080, Safety reports FSoE Group error on channel A

3.26 0081, Safety reports FSoE Group error on channel B

Safety reports FSoE Group error on channel B

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0081	129
Class	Type
Error	Safety Module initiated drive reaction
Standard Reaction	Reset
Closed loop ramp channel B	Execute Reset-Command (Fault reset).

Internal: 0x0081, Safety reports FSoE Group error on channel B

3.27 0082, Safety reports STO module error on channel A

Safety reports STO module error on channel A

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0082	130
Class	Type
Error	Safety Module initiated drive reaction
Standard Reaction	Reset
Closed loop ramp channel A	Execute Reset-Command (Fault reset).

Internal: 0x0082, Safety reports STO module error on channel A

3.28 0083, Safety reports STO module error on channel B

Safety reports STO module error on channel B

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0083	131
Class	Type
Error	Safety Module initiated drive reaction
Standard Reaction	Reset
Closed loop ramp channel B	Execute Reset-Command (Fault reset).

Internal: 0x0083, Safety reports STO module error on channel B

3.29 0084, Safety reports FSIN module (digital Inputs) error on channel A

Safety reports FSIN module (digital Inputs) error on channel A

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0084	132
Class	Type
Error	Safety Module initiated drive reaction
Standard Reaction	Reset
Closed loop ramp channel A	Execute Reset-Command (Fault reset).

Internal: 0x0084, Safety reports FSIN module (digital Inputs) error on channel A

3.30 0085, Safety reports FSIN module (digital Inputs) error on channel B

Safety reports FSIN module (digital Inputs) error on channel B

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0085	133
Class	Type
Error	Safety Module initiated drive reaction
Standard Reaction	Reset
Closed loop ramp channel B	Execute Reset-Command (Fault reset).

Internal: 0x0085, Safety reports FSIN module (digital Inputs) error on channel B

3.31 0086, Safety reports Brake module error on channel A

Safety reports Brake module error on channel A

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0086	134
Class	Type
Error	Safety Module initiated drive reaction
Standard Reaction	Reset
Closed loop ramp channel A	Execute Reset-Command (Fault reset).

Internal: 0x0086, Safety reports Brake module error on channel A

3.32 0087, Safety reports Brake module error on channel B

Safety reports Brake module error on channel B

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0087	135
Class	Type
Error	Safety Module initiated drive reaction
Standard Reaction	Reset
Closed loop ramp channel B	Execute Reset-Command (Fault reset).

Internal: 0x0087, Safety reports Brake module error on channel B

3.33 0088, Safety reports Encoder overrange error on channel A

Safety reports Encoder overrange error on channel A

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0088	136
Class	Type
Error	Safety Module initiated drive reaction
Standard Reaction	Reset
Closed loop ramp channel A	Execute Reset-Command (Fault reset).

Internal: 0x0088, Safety reports Encoder overrange error on channel A

3.34 0089, Safety reports Encoder overrange error on channel B

Safety reports Encoder overrange error on channel B

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0089	137
Class	Type
Error	Safety Module initiated drive reaction
Standard Reaction	Reset
Closed loop ramp channel B	Execute Reset-Command (Fault reset).

Internal: 0x0089, Safety reports Encoder overrange error on channel B

3.35 0090, Safety reports Encoder underrange error on channel A

Safety reports Encoder underrange error on channel A

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0090	144
Class	Type
Error	Safety Module initiated drive reaction
Standard Reaction	Reset
Closed loop ramp channel A	Execute Reset-Command (Fault reset).

Internal: 0x0090, Safety reports Encoder underrange error on channel A

3.36 0091, Safety reports Encoder underrange error on channel B

Safety reports Encoder underrange error on channel B

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0091	145
Class	Type
Error	Safety Module initiated drive reaction
Standard Reaction	Reset
Closed loop ramp channel B	Execute Reset-Command (Fault reset).

Internal: 0x0091, Safety reports Encoder underrange error on channel B

3.37 0092, Safety reports Primary Safety Feedback error on channel A

Safety reports Primary Safety Feedback error on channel A

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0092	146
Class	Type
Error	Safety Module initiated drive reaction
Standard Reaction	Reset
Closed loop ramp channel A	Execute Reset-Command (Fault reset).

Internal: 0x0092, Safety reports Primary Safety Feedback error on channel A

3.38 0093, Safety reports Primary Safety Feedback error on channel B

Safety reports Primary Safety Feedback error on channel B

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0093	147
Class	Type
Error	Safety Module initiated drive reaction
Standard Reaction	Reset
Closed loop ramp channel B	Execute Reset-Command (Fault reset).

Internal: 0x0093, Safety reports Primary Safety Feedback error on channel B

3.39 0094, Safety reports Secondary Safety Feedback error on channel A

Safety reports Secondary Safety Feedback error on channel A

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0094	148
Class	Type
Error	Safety Module initiated drive reaction
Standard Reaction	Reset
Closed loop ramp channel A	Execute Reset-Command (Fault reset).

Internal: 0x0094, Safety reports Secondary Safety Feedback error on channel A

3.40 0095, Safety reports Secondary Safety Feedback error on channel B

Safety reports Secondary Safety Feedback error on channel B

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0095	149
Class	Type
Error	Safety Module initiated drive reaction
Standard Reaction	Reset
Closed loop ramp channel B	Execute Reset-Command (Fault reset).

Internal: 0x0095, Safety reports Secondary Safety Feedback error on channel B

3.41 0096, Safety reports Encoder voltage statemachine fault on channel A

Safety reports Encoder voltage statemachine fault on channel A

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0096	150
Class	Type
Error	Safety Module initiated drive reaction
Standard Reaction	Reset
Closed loop ramp channel A	Execute Reset-Command (Fault reset).

Internal: 0x0096, Safety reports Encoder voltage statemachine fault on channel A

3.42 0097, Safety reports Encoder voltage statemachine fault on channel B

Safety reports Encoder voltage statemachine fault on channel B

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0097	151
Class	Type
Error	Safety Module initiated drive reaction
Standard Reaction	Reset
Closed loop ramp channel B	Execute Reset-Command (Fault reset).

Internal: 0x0097, Safety reports Encoder voltage statemachine fault on channel B

3.43 0098, Safety reports Emergency Stop on channel A

DriveCmd: Safety reports Emergency Stop on channel A

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0098	152
Class	Type
Error	Safety Module initiated drive reaction
Standard Reaction	Reset
Closed loop ramp channel A	Execute Reset-Command (Fault reset).

Internal: 0x0098, Safety reports Emergency Stop on channel A

3.44 0099, Safety reports Emergency Stop on channel B

DriveCmd: Safety reports Emergency Stop on channel B

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0099	153
Class	Type
Error	Safety Module initiated drive reaction
Standard Reaction	Reset
Closed loop ramp channel B	Execute Reset-Command (Fault reset).

Internal: 0x0099, Safety reports Emergency Stop on channel B

3.45 00AD, Safety reports not defined Drive Command on channel A SS

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
00AD	173
Class	Type
Warning	Warning
Standard Reaction	Reset
No	Warning: No reset required.

Internal: 0x00AD, Safety reports not defined Drive Command on channel A %s

3.46 00AE, Safety reports not defined Drive Command on channel B SS

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
00AE	174
Class	Type
Warning	Warning
Standard Reaction	Reset
No	Warning: No reset required.

Internal: 0x00AE, Safety reports not defined Drive Command on channel B %s

3.47 00B0, 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 (Hex.)	Diagnostic Code (Dez.)
00B0	176
Class	Type
Error	Error
Standard Reaction	Reset
Closed loop ramp	Execute Reset-Command (Fault reset).

Internal: 0x00B0, Safety Card is in Bootloader mode. Download of valid Firmware is required.

3.48 00B1, Safety reports a 'Global Shutdown Error'

The status flag 'Global Shutdown' is set.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
00B1	177
Class	Type
Error	Error
Standard Reaction	Reset
Closed loop ramp	Execute Reset-Command (Fault reset).

Internal: 0x00B1, Safety reports a 'Global Shutdown Error'

3.49 00FF, Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
00FF	255
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x00FF, Internal Error, Additional Errorcode 0x%x

3.50 0101, Primary MC: Completed RAM TEST: Starttime: 0xXX and Stop-time: 0xXX . The calculated timediff is 0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0101	257
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0101, Primary MC: Completed RAM TEST: Starttime: 0x%x and Stoptime: 0x%x . The calculated timediff is 0x%x.

3.51 0102, Secondary MC: Completed RAM TEST: Starttime: 0xXX and Stop-time: 0xXX . The calculated timediff is 0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0102	258
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0102, Secondary MC: Completed RAM TEST: Starttime: 0x%x and Stoptime: 0x%x . The calculated timediff is 0x%x.

3.52 0103, C1 MCTEST Info: Arg1: 0xXX, Arg2: 0xXX, Arg3: 0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0103	259
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0103, C1 MCTEST Info: Arg1: 0x%x, Arg2: 0x%x, Arg3: 0x%x.

3.53 0104, C2 MCTEST Info: Arg1: 0xXX, Arg2: 0xXX, Arg3: 0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0104	260
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0104, C2 MCTEST Info: Arg1: 0x%x, Arg2: 0x%x, Arg3: 0x%x.

3.54 0115, Controller II: Maximum temperature exceeded. Temperature is 0xXX, should be <= 0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0115	277
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0115, Controller %d: Maximum temperature exceeded.
Temperature is 0x%x, should be <= 0x%x.

3.55 0116, Controller II: Minimum temperature alert. Temperature is 0xXX, should be >= 0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0116	278
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0116, Controller %d: Minimum temperature alert. Temperature is 0x%x, should be >= 0x%x.

3.56 0117, Controller II: Temperature difference too high. Difference is II, should be <= II.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0117	279
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0117, Controller %d: Temperature difference too high.
Difference is %d, should be <= %d.

3.57 0118, Controller II: Maximum voltage alert (Partner_VCC). Voltage is 0xXX, should be <= 0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0118	280
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0118, Controller %d: Maximum voltage alert (Partner_VCC). Voltage is 0x%x, should be <= 0x%x.

3.58 0119, Controller II: Minimum voltage alert (Partner_VCC). Voltage is 0xXX, should be >= 0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0119	281
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0119, Controller %d: Minimum voltage alert (Partner_VCC). Voltage is 0x%x, should be >= 0x%x.

3.59 011A, Controller II: Maximum voltage alert (ECAT_VCC). Voltage is 0xXX, should be <= 0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
011A	282
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x011A, Controller %d: Maximum voltage alert (ECAT_VCC). Voltage is 0x%x, should be <= 0x%x.

3.60 011B, Controller II: Minimum voltage alert (ECAT_VCC). Voltage is 0xXX, should be >= 0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
011B	283
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x011B, Controller %d: Minimum voltage alert (ECAT_VCC). Voltage is 0x%x, should be >= 0x%x.

3.61 011E, Controller II: Timer Tick Difference is too high. Difference is 0xXX, should be >= 0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
011E	286
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x011E, Controller %d: Timer Tick Difference is too high. Difference is 0x%x, should be >= 0x%x.

3.62 011F, Controller II: Minimum value alert (Individual ADC Check). Channel parameter = II. Actual value is 0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
011F	287
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x011F, Controller %d: Minimum value alert (Individual ADC Check). Channel parameter = %d. Actual value is 0x%x.

3.63 0120, Controller II: Maximum value alert (Individual ADC Check). Channel parameter = II. Actual value is 0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0120	288
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0120, Controller %d: Maximum value alert (Individual ADC Check). Channel parameter = %d. Actual value is 0x%x.

3.64 0121, Module Shutdown due to minimum value alert (Individual ADC Check). Channel parameter = II.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0121	289
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x0121, Module Shutdown due to minimum value alert (Individual ADC Check). Channel parameter = %d.

3.65 1000, The size of the safe User Parameter is too small (II), the expected size is II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
1000	4096
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x1000, The size of the safe User Parameter is too small (%d), the expected size is %d

3.66 1003, The reserved data of the SafeOut User Parameter of module II at byte offset 0xXX has to be 0

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
1003	4099
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x1003, The reserved data of the SafeOut User Parameter of module %d at byte offset 0x%x has to be 0

3.67 1004, The reserved data of the SafeIn User Parameter of module II at byte offset 0xXX has to be 0

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
1004	4100
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x1004, The reserved data of the SafeIn User Parameter of module %d at byte offset 0x%x has to be 0

3.68 100A, The version of the Product-Code (0xXX) is unequal the expected value of 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
100A	4106
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x100A, The version of the Product-Code (0x%x) is unequal the expected value of 0x%x*

3.69 100B, The feature bits 0xXX of axis A are not supported, the allowed feature bits are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
100B	4107
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x100B, The feature bits 0x%x of axis A are not supported, the allowed feature bits are 0x%x

3.70 100C, The feature bits 0xXX of axis B are not supported, the allowed feature bits are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
100C	4108
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x100C, The feature bits 0x%x of axis B are not supported, the allowed feature bits are 0x%x

3.71 100F, The version (II (VII.II)) of the safety card is not released, not certified and shall only be used for non-safety-critical tests

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
100F	4111
Class	Type
Warning	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x100F, The version (%d (V%d.%d)) of the safety card is not released, not certified and shall only be used for non-safety-critical tests

3.72 1010, The default Project CRC is wrong, the received value is 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
1010	4112
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x1010, The default Project CRC is wrong, the received value is 0x%x*

3.73 102A, Unallowed Safe User Parameter Version, Received=0xXX Expected=0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
102A	4138
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x102A, Unallowed Safe User Parameter Version, Received=0x%x Expected=0x%x

3.74 102B, The Safe User Parameter Size (II) is unequal to the Safe User Parameter Size for the incremental download (SS)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
102B	4139
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x102B, The Safe User Parameter Size (%d) is unequal to the Safe User Parameter Size for the incremental download (%s)

3.75 102C, Unallowed Safe User Parameter Size for the requested features, Received=II Expected=II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
102C	4140
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x102C, Unallowed Safe User Parameter Size for the requested features, Received=%d Expected=%d

3.76 102D, Unallowed Safe User Parameter Ident, Received=II Expected=II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
102D	4141
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x102D, Unallowed Safe User Parameter Ident, Received=%d Expected=%d*

3.77 102E, Unallowed Safe User Parameter Size, Received=II Expected=II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
102E	4142
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x102E, Unallowed Safe User Parameter Size, Received=%d Expected=%d

3.78 102F, Unallowed Safe User Parameter Change in RUN, Offset=II Info=0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
102F	4143
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x102F, Unallowed Safe User Parameter Change in RUN,
Offset=%d Info=0x%x

3.79 1030, The size of the safe User Parameter is too big (II), the expected size is II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
1030	4144
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x1030, The size of the safe User Parameter is too big (%d), the expected size is %d

3.80 1515, Wrong SafetyCard Firmware: Number of supported axis does not fit with current device

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
1515	5397
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x1515, Wrong SafetyCard Firmware: Number of supported axis does not fit with current device

3.81 1516, SafetyCard: Invalid Current scaling shift value for calculation configured. SafetyCard VendorData: II DriveApplication: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
1516	5398
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x1516, SafetyCard: Invalid Current scaling shift value for calculation configured. SafetyCard VendorData: %d DriveApplication: %d

3.82 2001, The II. connection has received an invalid FSoE-Cmd in state CONNECTION

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2001	8193
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2001, The %d. connection has received an invalid FSoE-Cmd in state CONNECTION

3.83 2002, The II. connection has received an unknown FSoE-Cmd in state CONNECTION

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2002	8194
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2002, The %d. connection has received an unknown FSoE-Cmd in state CONNECTION

3.84 2003, The II. connection has received an invalid FSoE-ConnID in state CONNECTION

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2003	8195
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2003, The %d. connection has received an invalid FSoE-ConnID in state CONNECTION

3.85 2004, The II. connection has received an invalid FSoE-CRC in state CONNECTION

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2004	8196
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2004, The %d. connection has received an invalid FSoE-CRC in state CONNECTION

3.86 2005, The FSoE-Watchdog of the II. connection has been expired in state CONNECTION

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2005	8197
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2005, The FSoE-Watchdog of the %d. connection has been expired in state CONNECTION

3.87 2006, On the II. connection the received FSoE-Address (0xXX) does not match with the expected FSoE-Address (0xXX)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2006	8198
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2006, On the %d. connection the received FSoE-Address (0x%x) does not match with the expected FSoE-Address (0x%x)

3.88 2007, On the II. connection the received connection data do not match with the sent values

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2007	8199
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2007, On the %d. connection the received connection data do not match with the sent values

3.89 200C, On the II. connection in state CONNECTION the Connection was restarted from the FSoE-Master

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
200C	8204
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x200C, On the %d. connection in state CONNECTION the Connection was restarted from the FSoE-Master

3.90 200E, A Module fault was detected on the II. connection in state CONNECTION

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
200E	8206
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x200E, A Module fault was detected on the %d. connection in state CONNECTION*

3.91 2011, 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 (Hex.)	Diagnostic Code (Dez.)
2011	8209
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2011, On the %d. 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

3.92 2012, 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 (Hex.)	Diagnostic Code (Dez.)
2012	8210
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2012, On the %d. 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

3.93 2013, 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 (Hex.)	Diagnostic Code (Dez.)
2013	8211
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2013, On the %d. 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

3.94 2014, 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 (Hex.)	Diagnostic Code (Dez.)
2014	8212
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2014, On the %d. 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

3.95 2015, 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 (Hex.)	Diagnostic Code (Dez.)
2015	8213
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2015, On the %d. 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

3.96 2016, 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 (Hex.)	Diagnostic Code (Dez.)
2016	8214
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2016, On the %d. 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

3.97 2017, 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 (Hex.)	Diagnostic Code (Dez.)
2017	8215
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2017, On the %d. 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

3.98 2018, 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 (Hex.)	Diagnostic Code (Dez.)
2018	8216
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2018, On the %d. 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

3.99 2019, 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 (Hex.)	Diagnostic Code (Dez.)
2019	8217
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2019, On the %d. 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

3.100 201A, 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 (Hex.)	Diagnostic Code (Dez.)
201A	8218
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x201A, On the %d. 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

3.101 201B, 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 (Hex.)	Diagnostic Code (Dez.)
201B	8219
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x201B, On the %d. 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

3.102 201C, On the II. connection in state CONNECTION a FSoE-Reset with Error-Code 12 was received

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
201C	8220
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x201C, On the %d. connection in state CONNECTION a FSoE-Reset with Error-Code 12 was received

3.103 201D, On the II. connection in state CONNECTION a FSoE-Reset with Error-Code 13 was received

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
201D	8221
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x201D, On the %d. connection in state CONNECTION a FSoE-Reset with Error-Code 13 was received

3.104 201E, 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 (Hex.)	Diagnostic Code (Dez.)
201E	8222
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x201E, On the %d. connection in state CONNECTION a FSoE-Reset with Error-Code 14 was received which means that the communication partner has detected a module fault

3.105 201F, On the II. connection in state CONNECTION a FSoE-Reset with Error-Code 0xXX was received

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
201F	8223
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x201F, On the %d. connection in state CONNECTION a FSoE-Reset with Error-Code 0x%x was received

3.106 2041, The II. connection has received an invalid FSoE-Cmd in state PARAMETER

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2041	8257
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2041, The %d. connection has received an invalid FSoE-
Cmd in state PARAMETER

3.107 2042, The II. connection has received an unknown FSoE-Cmd in state PARAMETER

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2042	8258
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2042, The %d. connection has received an unknown FSoE-Cmd in state PARAMETER

3.108 2043, The II. connection has received an invalid FSoE-ConnID in state PARAMETER

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2043	8259
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2043, The %d. connection has received an invalid FSoE-ConnID in state PARAMETER

3.109 2044, The II. connection has received an invalid FSoE-CRC in state PARAMETER

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2044	8260
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2044, The %d. connection has received an invalid FSoE-CRC in state PARAMETER

3.110 2045, The FSoE-Watchdog of the II. connection has been expired in state PARAMETER

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2045	8261
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2045, The FSoE-Watchdog of the %d. connection has been expired in state PARAMETER

3.111 2047, On the II. connection the received parameter data do not match with the sent values

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2047	8263
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2047, On the %d. connection the received parameter data do not match with the sent values

3.112 2048, On the II. connection the received communication parameter length (II) does not match with the expected value of 2

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2048	8264
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2048, On the %d. connection the received communication parameter length (%d) does not match with the expected value of 2

3.113 2049, On the II. connection the received FSoE Watchdog (II) is outside the allowed area from 2 to 60000

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2049	8265
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2049, On the %d. connection the received FSoE Watchdog (%d) is outside the allowed area from 2 to 60000

3.114 204A, On the II. connection the received application parameter length (II) is unequal the expected length of II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
204A	8266
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x204A, On the %d. connection the received application parameter length (%d) is unequal the expected length of %d

3.115 204B, On the II. connection the received application parameter data are wrong

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
204B	8267
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x204B, On the %d. connection the received application parameter data are wrong

3.116 204C, On the II. connection in state PARAMETER the Connection was restarted from the FSoE-Master

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
204C	8268
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x204C, On the %d. connection in state PARAMETER the Connection was restarted from the FSoE-Master

3.117 204E, A Module fault was detected on the II. connection in state PARAMETER

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
204E	8270
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x204E, A Module fault was detected on the %d. connection in state PARAMETER

3.118 2051, 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 (Hex.)	Diagnostic Code (Dez.)
2051	8273
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2051, On the %d. 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

3.119 2052, 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 (Hex.)	Diagnostic Code (Dez.)
2052	8274
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2052, On the %d. 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

3.120 2053, 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 (Hex.)	Diagnostic Code (Dez.)
2053	8275
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2053, On the %d. 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

3.121 2054, 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 (Hex.)	Diagnostic Code (Dez.)
2054	8276
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2054, On the %d. 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

3.122 2055, 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 (Hex.)	Diagnostic Code (Dez.)
2055	8277
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2055, On the %d. 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

3.123 2056, 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 (Hex.)	Diagnostic Code (Dez.)
2056	8278
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2056, On the %d. 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

3.124 2057, 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 (Hex.)	Diagnostic Code (Dez.)
2057	8279
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2057, On the %d. 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

3.125 2058, 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 (Hex.)	Diagnostic Code (Dez.)
2058	8280
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2058, On the %d. 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

3.126 2059, 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 (Hex.)	Diagnostic Code (Dez.)
2059	8281
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2059, On the %d. 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

3.127 205A, 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 (Hex.)	Diagnostic Code (Dez.)
205A	8282
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x205A, On the %d. 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

3.128 205B, 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 (Hex.)	Diagnostic Code (Dez.)
205B	8283
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x205B, On the %d. 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

3.129 205C, On the II. connection in state PARAMETER a FSoE-Reset with Error-Code 12 was received

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
205C	8284
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x205C, On the %d. connection in state PARAMETER a FSoE-Reset with Error-Code 12 was received

3.130 205D, On the II. connection in state PARAMETER a FSoE-Reset with Error-Code 13 was received

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
205D	8285
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x205D, On the %d. connection in state PARAMETER a FSoE-Reset with Error-Code 13 was received

3.131 205E, 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 (Hex.)	Diagnostic Code (Dez.)
205E	8286
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x205E, On the %d. connection in state PARAMETER a FSoE-Reset with Error-Code 14 was received which means that the communication partner has detected a module fault

3.132 205F, On the II. connection in state PARAMETER a FSoE-Reset with Error-Code 0xXX was received

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
205F	8287
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x205F, On the %d. connection in state PARAMETER a FSoE-Reset with Error-Code 0x%x was received

3.133 2061, 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 (Hex.)	Diagnostic Code (Dez.)
2061	8289
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2061, On the %d. connection in state PARAMETER a wrong Command was received, which means that the Safe-Parameter size is wrong (Expected size: %d, Received size: %d)

3.134 2081, The II. connection has received an invalid FSoE-Cmd in state DATA

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2081	8321
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2081, The %d. connection has received an invalid FSoE-Cmd in state DATA

3.135 2082, The II. connection has received an unknown FSoE-Cmd in state DATA

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2082	8322
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2082, The %d. connection has received an unknown FSoE-Cmd in state DATA

3.136 2083, The II. connection has received an invalid FSoE-ConnID in state DATA

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2083	8323
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2083, The %d. connection has received an invalid FSoE-ConnID in state DATA

3.137 2084, The II. connection has received an invalid FSoE-CRC in state DATA

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2084	8324
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2084, The %d. connection has received an invalid FSoE-CRC in state DATA

3.138 2085, The FSoE-Watchdog of the II. connection has been expired in state DATA

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2085	8325
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x2085, The FSoE-Watchdog of the %d. connection has been expired in state DATA*

3.139 208C, On the II. connection in state DATA the Connection was restarted from the FSoE-Master

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
208C	8332
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x208C, On the %d. connection in state DATA the Connection was restarted from the FSoE-Master

3.140 208D, The FailSafeData command was received on the II. connection in state DATA

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
208D	8333
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x208D, The FailSafeData command was received on the %d. connection in state DATA*

3.141 208E, A Module fault was detected on the II. connection in state DATA

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
208E	8334
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x208E, A Module fault was detected on the %d. connection in state DATA

3.142 2091, 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 (Hex.)	Diagnostic Code (Dez.)
2091	8337
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2091, On the %d. 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

3.143 2092, 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 (Hex.)	Diagnostic Code (Dez.)
2092	8338
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2092, On the %d. 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

3.144 2093, 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 (Hex.)	Diagnostic Code (Dez.)
2093	8339
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2093, On the %d. 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

3.145 2094, 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 (Hex.)	Diagnostic Code (Dez.)
2094	8340
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2094, On the %d. 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

3.146 2095, 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 (Hex.)	Diagnostic Code (Dez.)
2095	8341
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2095, On the %d. 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

3.147 2096, 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 (Hex.)	Diagnostic Code (Dez.)
2096	8342
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2096, On the %d. 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

3.148 2097, 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 (Hex.)	Diagnostic Code (Dez.)
2097	8343
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2097, On the %d. 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

3.149 2098, 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 (Hex.)	Diagnostic Code (Dez.)
2098	8344
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2098, On the %d. 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

3.150 2099, 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 (Hex.)	Diagnostic Code (Dez.)
2099	8345
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x2099, On the %d. 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

3.151 209A, 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 (Hex.)	Diagnostic Code (Dez.)
209A	8346
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x209A, On the %d. 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

3.152 209B, 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 (Hex.)	Diagnostic Code (Dez.)
209B	8347
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x209B, On the %d. 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

3.153 209C, On the II. connection in state DATA a FSoE-Reset with Error-Code 12 was received

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
209C	8348
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x209C, On the %d. connection in state DATA a FSoE-Reset with Error-Code 12 was received

3.154 209D, On the II. connection in state DATA a FSoE-Reset with Error-Code 13 was received

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
209D	8349
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x209D, On the %d. connection in state DATA a FSoE-Reset with Error-Code 13 was received

3.155 209E, 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 (Hex.)	Diagnostic Code (Dez.)
209E	8350
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x209E, On the %d. connection in state DATA a FSoE-Reset with Error-Code 14 was received which means that the communication partner has detected a module fault

3.156 209F, On the II. connection in state DATA a FSoE-Reset with Error-Code 0xXX was received

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
209F	8351
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x209F, On the %d. connection in state DATA a FSoE-Reset with Error-Code 0x%x was received

3.157 20C1, The II. connection has received an invalid FSoE-Cmd in state SHUTDOWN

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
20C1	8385
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x20C1, The %d. connection has received an invalid FSoE-Cmd in state SHUTDOWN

3.158 20C2, The II. connection has received an unknown FSoE-Cmd in state SHUTDOWN

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
20C2	8386
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x20C2, The %d. connection has received an unknown FSoE-Cmd in state SHUTDOWN

3.159 20C4, The II. connection has received an invalid FSoE-CRC in state SHUTDOWN

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
20C4	8388
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x20C4, The %d. connection has received an invalid FSoE-CRC in state SHUTDOWN

3.160 20E3, The II. connection has received the invalid FSoE-ConnID 0 in state SESSION

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
20E3	8419
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x20E3, The %d. connection has received the invalid FSoE-ConnID 0 in state SESSION

3.161 3100, No groups defined when trying to activate or deactivate groups

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3100	12544
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3100, No groups defined when trying to activate or deactivate groups

3.162 3101, The reserved bits are set in value II at offset II when trying to activate or deactivate groups

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3101	12545
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3101, The reserved bits are set in value %d at offset %d when trying to activate or deactivate groups

3.163 3102, The operation mode at offset II is not supported when trying to activate or deactivate groups

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3102	12546
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3102, The operation mode at offset %d is not supported when trying to activate or deactivate groups

3.164 3103, The deactivation of groups is not enabled for any group so no replacement values should be downloaded

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3103	12547
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3103, The deactivation of groups is not enabled for any group so no replacement values should be downloaded

3.165 3104, The maximum number (II) of Cfg Data pages was exceeded in the Replacement Values Cfg Data

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3104	12548
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3104, The maximum number (%d) of Cfg Data pages was exceeded in the Replacement Values Cfg Data

3.166 3105, Invalid FB output size size at offset II of the Replacement Values Cfg Data

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3105	12549
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3105, Invalid FB output size size at offset %d of the Replacement Values Cfg Data

3.167 3106, Unexpected groupindex in the Replacement values Cfg Data at offset 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3106	12550
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3106, Unexpected groupindex in the Replacement values Cfg Data at offset 0x%x

3.168 3107, The download of the Activate Project Cfg Data was refused because II bytes of the Replacement Values Cfg Data were missing

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3107	12551
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3107, The download of the Activate Project Cfg Data was refused because %d bytes of the Replacement Values Cfg Data were missing

3.169 3108, 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 (Hex.)	Diagnostic Code (Dez.)
3108	12552
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3108, To activate the Group %d 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

3.170 3109, 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 (Hex.)	Diagnostic Code (Dez.)
3109	12553
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3109, No more definitions of individual replace values for analog FB Outputs in case of Group State unequal RUN are expected at offset %d

3.171 310A, 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 (Hex.)	Diagnostic Code (Dez.)
310A	12554
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 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 %d

3.172 310B, The source process image offset of the Cyclic FRAM Data is outside the FB analog input area at offset II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
310B	12555
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x310B, The source process image offset of the Cyclic FRAM Data is outside the FB analog input area at offset %d

3.173 310C, The source process image offset of the Cyclic FRAM Data has to even at offset II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
310C	12556
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x310C, The source process image offset of the Cyclic FRAM Data has to even at offset %d

3.174 310D, The size of the Cyclic FRAM Data was exceeding at offset II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
310D	12557
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x310D, The size of the Cyclic FRAM Data was exceeding at offset %d

3.175 310E, 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 (Hex.)	Diagnostic Code (Dez.)
310E	12558
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x310E, The received size of the Cyclic FRAM Data at word offset 24 of the Safe Logic Cfg Data (%d) is unequal the calculated value of %d

3.176 310F, The size of the Cyclic FRAM CfgData in the GroupCfgData was not dividable by 4 at offset II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
310F	12559
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x310F, The size of the Cyclic FRAM CfgData in the GroupCfgData was not dividable by 4 at offset %d

3.177 3110, The offset of the Cyclic FRAM Data in the GroupCfgData was wrong at offset II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3110	12560
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3110, The offset of the Cyclic FRAM Data in the GroupCfgData was wrong at offset %d

3.178 3111, The value of II at offset II is not allowed when trying to activate or deactivate groups

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3111	12561
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3111, The value of %d at offset %d is not allowed when trying to activate or deactivate groups

3.179 3112, The activating or deactivating of groups is not allowed in PREOP

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3112	12562
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3112, The activating or deactivating of groups is not allowed in PREOP

3.180 3113, FB CAMMON (Word-Offset 0xXX of the CfgData): The TDC2UpperLimit (II) is lower or equal than the maximum position jitter (II)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3113	12563
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3113, FB CAMMON (Word-Offset 0x%x of the CfgData):
The TDC2UpperLimit (%d) is lower or equal than the maximum po-
sition jitter (%d)

3.181 3114, FB CAMMON (Word-Offset 0xXX of the CfgData): The TDCUpperLimit (II) is lower or equal than the maximum position jitter (II)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3114	12564
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3114, FB CAMMON (Word-Offset 0x%x of the CfgData):
The TDCUpperLimit (%d) is lower or equal than the maximum position jitter (%d)

3.182 3115, 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 (Hex.)	Diagnostic Code (Dez.)
3115	12565
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3115, FB CAMMON (Word-Offset 0x%x of the CfgData):
The value of TDCLowerLimit (plus maximum position jitter) (%d) is
bigger or equal the configured position of 360° (%d)

3.183 3116, 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 (Hex.)	Diagnostic Code (Dez.)
3116	12566
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3116, FB CAMMON (Word-Offset 0x%x of the CfgData):
The value of BDCUpperLimit (plus twice the maximum position jitter)
(%d) is bigger or equal the value of TDCLowerLimit (%d)

3.184 3117, 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 (Hex.)	Diagnostic Code (Dez.)
3117	12567
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3117, FB CAMMON (Word-Offset 0x%x of the CfgData):
The value of BDCUpperLimit (%d) is smaller or equal the configured
value of 180° (plus maximum position jitter) (%d)

3.185 3118, 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 (Hex.)	Diagnostic Code (Dez.)
3118	12568
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3118, FB CAMMON (Word-Offset 0x%x of the CfgData):
The value of BDCLowerLimit (plus maximum position jitter) (%d) is
greater or equal the configured value of 180° (%d)

3.186 3119, 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 (Hex.)	Diagnostic Code (Dez.)
3119	12569
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3119, FB CAMMON (Word-Offset 0x%x of the CfgData):
The value of OverrunMax (plus twice the maximum position jitter)
(%d) is bigger or equal the value of BDCLowerLimit (%d)

3.187 311A, 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 (Hex.)	Diagnostic Code (Dez.)
311A	12570
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x311A, FB CAMMON (Word-Offset 0x%x of the CfgData):
The value of TDCUpperLimit (plus twice the maximum position jitter)
(%d) is bigger or equal the value of OverrunMax (%d)

3.188 311B, 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 (Hex.)	Diagnostic Code (Dez.)
311B	12571
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x311B, FB CAMMON (Word-Offset 0x%x of the CfgData):
The value of TDC1UpperLimit (plus the maximum position jitter)
(%d) is bigger or equal the configured position of 360° (%d)

3.189 311C, 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 (Hex.)	Diagnostic Code (Dez.)
311C	12572
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x311C, FB CAMMON (Word-Offset 0x%x of the CfgData):
The value of TDC1LowerLimit (plus twice the maximum position jitter) (%d) is bigger or equal the value of TDC1UpperLimit (5d)

3.190 311D, 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 (Hex.)	Diagnostic Code (Dez.)
311D	12573
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x311D, FB CAMMON (Word-Offset 0x%x of the CfgData):
The value of TDC2LowerLimit (plus twice the maximum position jitter) (%d) is bigger or equal the value of BDCLowerLimit (%d)

3.191 311E, 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 (Hex.)	Diagnostic Code (Dez.)
311E	12574
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x311E, FB CAMMON (Word-Offset 0x%x of the CfgData):
The value of TDC2UpperLimit (plus twice the maximum position jitter) (%d) is bigger or equal the value of TDC2LowerLimit (%d)

3.192 311F, The maximum size of the Replacement Values was exceeded at Word-Offset 0xXX of the Group Cfg Data

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
311F	12575
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x311F, The maximum size of the Replacement Values was exceeded at Word-Offset 0x%x of the Group Cfg Data

3.193 3120, 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 (Hex.)	Diagnostic Code (Dez.)
3120	12576
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3120, If no deactivation mode is enabled the offset of the replacement values shall be zero at Word-Offset 0x%x of the Group Cfg Data

3.194 3121, No more replacement values expected at byte-offset 0xXX of the Replacement Values Cfg Data

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3121	12577
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3121, No more replacement values expected at byte-off-
set 0x%x of the Replacement Values Cfg Data

3.195 3122, The Download of the Project CRC is not allowed in PREOP

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3122	12578
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3122, The Download of the Project CRC is not allowed in PREOP

3.196 3200, The PROFIsafe-protocol is not supported on this device

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3200	12800
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x3200, The PROFIsafe-protocol is not supported on this device*

3.197 3201, The F_ParVersion in the F_Prm_Flag2 of the F-Parameter at Word-Offset 0xXX is unequal 1 (PROFIsafe V2)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3201	12801
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3201, The F_ParVersion in the F_Prm_Flag2 of the F-Parameter at Word-Offset 0x%x is unequal 1 (PROFIsafe V2)

3.198 3202, The F_CRC1 of the F-Parameter at Word-Offset 0xXX is wrong

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3202	12802
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3202, The F_CRC1 of the F-Parameter at Word-Offset 0x%x is wrong

3.199 3203, 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 (Hex.)	Diagnostic Code (Dez.)
3203	12803
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3203, The F_CRC_Length in the F_Prm_Flag1 of the F-Parameter is wrong at Word-Offset 0x%x, the expected value is 0 (3 Bytes CRC2)

3.200 3206, The I-Parameter CRC in the F-Parameter is wrong at Word-Offset 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3206	12806
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3206, The I-Parameter CRC in the F-Parameter is wrong at Word-Offset 0x%x

3.201 3207, 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 (Hex.)	Diagnostic Code (Dez.)
3207	12807
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3207, The F_Block_ID in the F_Prm_Flag2 of the F-Parameter is wrong at Word-Offset 0x%x, the expected value is 0 (No F_iPar_CRC, no F_WD_Time 2) or 1 (F_iPar_CRC, no F_WD_Time 2)

3.202 3208, The F_Source_Address in the F-Parameter at Word-Offset 0xXX is outside the allowed area of 1-0xFFFFE

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3208	12808
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3208, The F_Source_Address in the F-Parameter at Word-Offset 0x%x is outside the allowed area of 1-0xFFFFE

3.203 3209, The F_Destination_Address in the F-Parameter at Word-Offset 0xXX is outside the allowed area of 1-0xFFFFE

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3209	12809
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3209, The F_Destination_Address in the F-Parameter at Word-Offset 0x%x is outside the allowed area of 1-0xFFFFE

3.204 320A, The F_WD_Time in the F-parameter at Word-Offset 0xXX is outside the allowed range from 2-60000

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
320A	12810
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x320A, The F_WD_Time in the F-parameter at Word-Offset 0x%x is outside the allowed range from 2-60000

3.205 320B, The F_Destination_Address in the F-Parameter at Word-Offset 0xXX is wrong, the expected value is II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
320B	12811
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x320B, The F_Destination_Address in the F-Parameter at Word-Offset 0x%x is wrong, the expected value is %d*

3.206 3300, The State OPERATIONAL was left in Restore Mode

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3300	13056
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x3300, The State OPERATIONAL was left in Restore Mode*

3.207 3301, Only II CRCs were matching in Restore Mode

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3301	13057
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3301, Only %d CRCs were matching in Restore Mode

3.208 3302, The CRC of the Activate Project Cfg Data in Restore Mode does not match, the expected value was 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3302	13058
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3302, The CRC of the Activate Project Cfg Data in Restore Mode does not match, the expected value was 0x%x

3.209 3303, No RestoreMode Slaves configured when trying to start the Restore Mode

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3303	13059
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x3303, No RestoreMode Slaves configured when trying to start the Restore Mode*

3.210 3304, The CRC of the User List Cfg Data was not matching in Restore Mode, the expected value was 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3304	13060
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3304, The CRC of the User List Cfg Data was not matching in Restore Mode, the expected value was 0x%x

3.211 3305, The download of the User List Cfg Data is not activated in Restore Mode

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3305	13061
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3305, The download of the User List Cfg Data is not activated in Restore Mode

3.212 3306, The download of the User List Cfg Data in Restore-Mode is not allowed in the state II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3306	13062
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3306, The download of the User List Cfg Data in Restore-Mode is not allowed in the state %d

3.213 3307, The activation of the TwinSAFE Restore Project is not allowed in the state II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3307	13063
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3307, The activation of the TwinSAFE Restore Project is not allowed in the state %d

3.214 3308, The Restore Mode is not supported in EtherCAT state 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3308	13064
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x3308, The Restore Mode is not supported in EtherCAT state 0x%x*

3.215 3310, The FSoE-Slave on the II. connection is in Restore-Mode

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3310	13072
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3310, The FSoE-Slave on the %d. connection is in Restore-Mode

3.216 3311, The FSoE-Master on the II. connection is in Restore-Mode

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3311	13073
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3311, The FSoE-Master on the %d. connection is in Restore-Mode

3.217 3400, The II. group has no more errors

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3400	13312
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3400, The %d. group has no more errors

3.218 3401, 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 (Hex.)	Diagnostic Code (Dez.)
3401	13313
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3401, The Analog Input at word offset %d of the analog input process image has expired maximum allowed deviation to the last stored value, received value: %d, last stored value: %d

3.219 3402, The Wait-Com-Error-Timeout has not been expired when the group II should be deactivated in passivate mode

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3402	13314
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3402, The Wait-Com-Error-Timeout has not been expired when the group %d should be deactivated in passivate mode

3.220 3403, A module fault happened in group II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3403	13315
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3403, A module fault happened in group %d

3.221 3404, The assigned connection reported an error when the group II was deactivated in passivate mode

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3404	13316
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3404, The assigned connection reported an error when the group %d was deactivated in passivate mode

3.222 3405, The connection has been successfully restarted when the group II was deactivated in passivate mode

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3405	13317
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3405, The connection has been successfully restarted when the group %d was deactivated in passivate mode

3.223 3410, All groups will enter the ERROR-state because the safe logic program has been restarted

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3410	13328
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3410, All groups will enter the ERROR-state because the safe logic program has been restarted

3.224 3411, All groups will enter the ERROR-state because the CRC of the Change Group Activation Data was wrong

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3411	13329
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3411, All groups will enter the ERROR-state because the CRC of the Change Group Activation Data was wrong

3.225 3412, All groups will enter the ERROR-state because the CRC of the Change FB Parameter Data was wrong

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3412	13330
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3412, All groups will enter the ERROR-state because the CRC of the Change FB Parameter Data was wrong

3.226 3413, All groups will enter the ERROR-state because the CRC of the Project CRC Data was wrong

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3413	13331
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3413, All groups will enter the ERROR-state because the CRC of the Project CRC Data was wrong

3.227 3414, All groups will enter the ERROR-state because the CRC of the Power-On Analog Value Check Data was wrong

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3414	13332
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3414, All groups will enter the ERROR-state because the CRC of the Power-On Analog Value Check Data was wrong

3.228 3415, The TwinSAFE Logic Program was not loaded on C1 because of an inconsistency

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3415	13333
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3415, The TwinSAFE Logic Program was not loaded on C1 because of an inconsistency

3.229 3416, The TwinSAFE Logic Program was not loaded on C2 because of an inconsistency

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3416	13334
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3416, The TwinSAFE Logic Program was not loaded on C2 because of an inconsistency

3.230 3420, No more EtherCAT size error (EtherCAT Output Size=II, EtherCAT Input Size=II)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3420	13344
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3420, No more EtherCAT size error (EtherCAT Output Size=%d, EtherCAT Input Size=%d)

3.231 3421, The EtherCAT Output Data sizes of the Safety Logic Program (II) and the EtherCAT Configuration (II) are unequal

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3421	13345
Class	Type
Warning	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3421, The EtherCAT Output Data sizes of the Safety Logic Program (%d) and the EtherCAT Configuration (%d) are unequal

3.232 3422, The EtherCAT Input Data sizes of the Safety Logic Program (II) and the EtherCAT Configuration (II) are unequal

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3422	13346
Class	Type
Warning	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3422, The EtherCAT Input Data sizes of the Safety Logic Program (%d) and the EtherCAT Configuration (%d) are unequal

3.233 3423, The EtherCAT Output Data sizes for PROFIsafe of the Safety Logic Program (II) and the EtherCAT Configuration (II) are unequal

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3423	13347
Class	Type
Warning	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3423, The EtherCAT Output Data sizes for PROFIsafe of the Safety Logic Program (%d) and the EtherCAT Configuration (%d) are unequal

3.234 3424, The EtherCAT Input Data sizes for PROFIsafe of the Safety Logic Program (II) and the EtherCAT Configuration (II) are unequal

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3424	13348
Class	Type
Warning	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3424, The EtherCAT Input Data sizes for PROFIsafe of the Safety Logic Program (%d) and the EtherCAT Configuration (%d) are unequal

3.235 3425, The needed EtherCAT Process data buffer size (II) exceeded the maximum available size of II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3425	13349
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3425, The needed EtherCAT Process data buffer size (%d) exceeded the maximum available size of %d

3.236 3501, On the II. connection the changeable FSoE Address of II already exists

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3501	13569
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3501, On the %d. connection the changeable FSoE Address of %d already exists

3.237 3502, On the II. connection the changeable FSoE Address is zero

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3502	13570
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3502, On the %d. connection the changeable FSoE Address is zero

3.238 3800, FB II (ESTOP): An EDM-fault (0xXX) was detected in state SAFE

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3800	14336
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3800, FB %d (ESTOP): An EDM-fault (0x%x) was detected in state SAFE

3.239 3802, FB II (ESTOP): An EDM-fault (0xXX) was detected in state RESET

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3802	14338
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3802, FB %d (ESTOP): An EDM-fault (0x%x) was detected in state RESET

3.240 3803, FB II (ESTOP): An EDM-fault (0xXX) was detected in state START

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3803	14339
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x3803, FB %d (ESTOP): An EDM-fault (0x%x) was detected in state START*

3.241 3804, FB II (ESTOP): An DiscTime-Fault (0xXX) was detected in state SAFE, the actual EStopIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3804	14340
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3804, FB %d (ESTOP): An DiscTime-Fault (0x%x) was detected in state SAFE, the actual EStopIn-values are 0x%x

3.242 3806, FB II (ESTOP): An DiscTime-Fault (0xXX) was detected in state RESET, the actual EStopIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3806	14342
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3806, FB %d (ESTOP): An DiscTime-Fault (0x%x) was detected in state RESET, the actual EStopIn-values are 0x%x

3.243 3807, FB II (ESTOP): An DiscTime-Fault (0xXX) was detected in state START, the actual EStopIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3807	14343
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x3807, FB %d (ESTOP): An DiscTime-Fault (0x%x) was detected in state START, the actual EStopIn-values are 0x%x*

3.244 3809, FB II (ESTOP): An DiscTime-Fault (0xXX) was detected in state DELAYOUT, the actual EStopIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3809	14345
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3809, FB %d (ESTOP): An DiscTime-Fault (0x%x) was detected in state DELAYOUT, the actual EStopIn-values are 0x%x

3.245 380F, 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 (Hex.)	Diagnostic Code (Dez.)
380F	14351
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x380F, FB %d (ESTOP): At least one activated EDM-Input was not reset in RUN when the EDM Reset time had been expired (Diag-Code=0x%x)

3.246 3810, FB II (MON): An EDM-fault (0xXX) was detected in state SAFE

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3810	14352
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3810, FB %d (MON): An EDM-fault (0x%x) was detected in state SAFE

3.247 3812, FB II (MON): An EDM-fault (0xXX) was detected in state RESET

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3812	14354
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3812, FB %d (MON): An EDM-fault (0x%x) was detected in state RESET

3.248 3813, FB II (MON): An EDM-fault (0xXX) was detected in state START

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3813	14355
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3813, FB %d (MON): An EDM-fault (0x%x) was detected in state START

3.249 3814, FB II (MON): An DiscTime-Fault (0xXX) was detected in state SAFE, the actual MonIn/Secure-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3814	14356
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3814, FB %d (MON): An DiscTime-Fault (0x%x) was detected in state SAFE, the actual MonIn/Secure-values are 0x%x

3.250 3816, FB II (MON): An DiscTime-Fault (0xXX) was detected in state RESET, the actual MonIn/Secure-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3816	14358
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3816, FB %d (MON): An DiscTime-Fault (0x%x) was detected in state RESET, the actual MonIn/Secure-values are 0x%x

3.251 3817, FB II (MON): An DiscTime-Fault (0xXX) was detected in state START, the actual MonIn/Secure-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3817	14359
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3817, FB %d (MON): An DiscTime-Fault (0x%x) was detected in state START, the actual MonIn/Secure-values are 0x%x

3.252 3818, FB II (MON): An DiscTime-Fault (0xXX) was detected in state RUN, the actual MonIn/Secure-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3818	14360
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3818, FB %d (MON): An DiscTime-Fault (0x%x) was detected in state RUN, the actual MonIn/Secure-values are 0x%x

3.253 3819, FB II (MON): An DiscTime-Fault (0xXX) was detected in state DE-LAYOUT, the actual MonIn/Secure-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3819	14361
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3819, FB %d (MON): An DiscTime-Fault (0x%x) was detected in state DELAYOUT, the actual MonIn/Secure-values are 0x%x

3.254 381A, FB II (MON): An DiscTime-Fault (0xXX) was detected in state FUNCTEST, the actual MonIn/Secure-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
381A	14362
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x381A, FB %d (MON): An DiscTime-Fault (0x%x) was detected in state FUNCTEST, the actual MonIn/Secure-values are 0x%x

3.255 381F, 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 (Hex.)	Diagnostic Code (Dez.)
381F	14367
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x381F, FB %d (MON): At least one activated EDM-Input was not reset in RUN when the EDM Reset time had been expired (Diag-Code=0x%x)*

3.256 3820, FB II (TWOHAND): A Disc-Group-fault (0xXX) was detected in state 1BUTTON, the actual TwoHandIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3820	14368
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x3820, FB %d (TWOHAND): A Disc-Group-fault (0x%x) was detected in state 1BUTTON, the actual TwoHandIn-values are 0x%x*

3.257 3821, FB II (TWOHAND): A Disc-Group-fault (0xXX) was detected in state 2BUTTON, the actual TwoHandIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3821	14369
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x3821, FB %d (TWOHAND): A Disc-Group-fault (0x%x) was detected in state 2BUTTON, the actual TwoHandIn-values are 0x%x*

3.258 3823, FB II (TWOHAND): An DiscTime-Fault (0xXX) was detected in state SAFE, the actual TwoHandIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3823	14371
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x3823, FB %d (TWOHAND): An DiscTime-Fault (0x%x) was detected in state SAFE, the actual TwoHandIn-values are 0x%x*

3.259 3825, FB II (TWOHAND): An DiscTime-Fault (0xXX) was detected in state RESET, the actual TwoHandIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3825	14373
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3825, FB %d (TWOHAND): An DiscTime-Fault (0x%x) was detected in state RESET, the actual TwoHandIn-values are 0x%x

3.260 382B, FB II (TWOHAND): An DiscTime-Fault (0xXX) was detected in state 1BUTTON, the actual TwoHandIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
382B	14379
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x382B, FB %d (TWOHAND): An DiscTime-Fault (0x%x) was detected in state 1BUTTON, the actual TwoHandIn-values are 0x%x

3.261 382C, FB II (TWOHAND): An DiscTime-Fault (0xXX) was detected in state 2BUTTON, the actual TwoHandIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
382C	14380
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x382C, FB %d (TWOHAND): An DiscTime-Fault (0x%x) was detected in state 2BUTTON, the actual TwoHandIn-values are 0x%x

3.262 382D, FB II (TWOHAND): An DiscTime-Fault (0xXX) was detected in state RELEASE, the actual TwoHandIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
382D	14381
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x382D, FB %d (TWOHAND): An DiscTime-Fault (0x%x) was detected in state RELEASE, the actual TwoHandIn-values are 0x%x*

3.263 3830, FB II (OPMODE): An DiscTime-Fault (0xXX) was detected, the actual OpIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3830	14384
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3830, FB %d (OPMODE): An DiscTime-Fault (0x%x) was detected, the actual OpIn-values are 0x%x

3.264 3831, FB II (OPMODE): An Input-Fault was detected in state RESET, the actual OpIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3831	14385
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3831, FB %d (OPMODE): An Input-Fault was detected in state RESET, the actual OpIn-values are 0x%x

3.265 3840, FB II (EDM): The SwitchOn-Time had been expired

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3840	14400
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3840, FB %d (EDM): The SwitchOn-Time had been expired

3.266 3841, FB II (EDM): The SwitchOff-Time had been expired

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3841	14401
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3841, FB %d (EDM): The SwitchOff-Time had been expired

3.267 3853, FB II (CS): An DiscTime-Fault (0xXX) was detected in state SAFE, the actual Deactivate-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3853	14419
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3853, FB %d (CS): An DiscTime-Fault (0x%x) was detected in state SAFE, the actual Deactivate-values are 0x%x

3.268 3855, FB II (CS): An DiscTime-Fault (0xXX) was detected in state RESET, the actual Deactivate-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3855	14421
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3855, FB %d (CS): An DiscTime-Fault (0x%x) was detected in state RESET, the actual Deactivate-values are 0x%x

3.269 3881, FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state RUN, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3881	14465
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3881, FB %d (MUTING): An DiscTime-Fault (0x%x) was detected in state RUN, the actual MuteIn/OssdIn-values are 0x%x

3.270 3883, FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state SAFE, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3883	14467
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3883, FB %d (MUTING): An DiscTime-Fault (0x%x) was detected in state SAFE, the actual MuteIn/OssdIn-values are 0x%x

3.271 3885, FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state RESET, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3885	14469
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3885, FB %d (MUTING): An DiscTime-Fault (0x%x) was detected in state RESET, the actual MuteIn/OssdIn-values are 0x%x

3.272 3888, FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state DELAYOUT, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3888	14472
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3888, FB %d (MUTING): An DiscTime-Fault (0x%x) was detected in state DELAYOUT, the actual MuteIn/OssdIn-values are 0x%x

3.273 3889, FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state MUTING1, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3889	14473
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3889, FB %d (MUTING): An DiscTime-Fault (0x%x) was detected in state MUTING1, the actual MuteIn/OssdIn-values are 0x%x

3.274 388A, FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state MUTING2, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
388A	14474
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x388A, FB %d (MUTING): An DiscTime-Fault (0x%x) was detected in state MUTING2, the actual MuteIn/OssdIn-values are 0x%x

3.275 388B, FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state MUTING3, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
388B	14475
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x388B, FB %d (MUTING): An DiscTime-Fault (0x%x) was detected in state MUTING3, the actual MuteIn/OssdIn-values are 0x%x*

3.276 388C, FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state MUTING4, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
388C	14476
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x388C, FB %d (MUTING): An DiscTime-Fault (0x%x) was detected in state MUTING4, the actual MuteIn/OssdIn-values are 0x%x

3.277 388D, FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state MUTING5, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
388D	14477
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x388D, FB %d (MUTING): An DiscTime-Fault (0x%x) was detected in state MUTING5, the actual MuteIn/OssdIn-values are 0x%x

3.278 388E, FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state MUTING6, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
388E	14478
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x388E, FB %d (MUTING): An DiscTime-Fault (0x%x) was detected in state MUTING6, the actual MuteIn/OssdIn-values are 0x%x

3.279 388F, FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state MUTING7, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
388F	14479
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x388F, FB %d (MUTING): An DiscTime-Fault (0x%x) was detected in state MUTING7, the actual MuteIn/OssdIn-values are 0x%x

3.280 3890, FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state MUTING8, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3890	14480
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3890, FB %d (MUTING): An DiscTime-Fault (0x%x) was detected in state MUTING8, the actual MuteIn/OssdIn-values are 0x%x

3.281 3891, FB II (MUTING): An DiscTime-Fault (0xXX) was detected in state MUTING9, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3891	14481
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3891, FB %d (MUTING): An DiscTime-Fault (0x%x) was detected in state MUTING9, the actual MuteIn/OssdIn-values are 0x%x

3.282 3892, 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 (Hex.)	Diagnostic Code (Dez.)
3892	14482
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3892, FB %d (MUTING): State RUN, Sequential Inputs=TRUE: MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0x%x

3.283 3893, 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 (Hex.)	Diagnostic Code (Dez.)
3893	14483
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3893, FB %d (MUTING): State RUN, Sequential Inputs=FALSE: MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0x%x

3.284 3894, FB II (MUTING): State MUTING1, MutingEnable is set and the OssidIn-signals are invalid, the actual MuteIn/OssidIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3894	14484
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3894, FB %d (MUTING): State MUTING1, MutingEnable is set and the OssidIn-signals are invalid, the actual MuteIn/OssidIn-values are 0x%x

3.285 3895, FB II (MUTING): State MUTING1, MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3895	14485
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3895, FB %d (MUTING): State MUTING1, MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0x%x

3.286 3896, 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 (Hex.)	Diagnostic Code (Dez.)
3896	14486
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3896, FB %d (MUTING): State MUTING2, MutingEnable is set and the MuteIn-signals before the AOPD are invalid, the actual MuteIn/OssdIn-values are 0x%x

3.287 3897, 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 (Hex.)	Diagnostic Code (Dez.)
3897	14487
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3897, FB %d (MUTING): State MUTING2, MutingEnable is set and the MuteIn-signals after the AOPD are invalid, the actual MuteIn/OssdIn-values are 0x%x

3.288 3898, FB II (MUTING): State MUTING3, MutingEnable is set and the OssidIn-signals are invalid, the actual MuteIn/OssidIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3898	14488
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3898, FB %d (MUTING): State MUTING3, MutingEnable is set and the OssidIn-signals are invalid, the actual MuteIn/OssidIn-values are 0x%x

3.289 3899, 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 (Hex.)	Diagnostic Code (Dez.)
3899	14489
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x3899, FB %d (MUTING): State MUTING3, Sequential Inputs=TRUE: MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0x%x

3.290 389A, 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 (Hex.)	Diagnostic Code (Dez.)
389A	14490
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x389A, FB %d (MUTING): State MUTING3, Sequential Inputs=FALSE: MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0x%x

3.291 389B, FB II (MUTING): State MUTING4, MutingEnable is set and the OssidIn-signals are invalid, the actual MuteIn/OssidIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
389B	14491
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x389B, FB %d (MUTING): State MUTING4, MutingEnable is set and the OssidIn-signals are invalid, the actual MuteIn/OssidIn-values are 0x%x

3.292 389C, FB II (MUTING): State MUTING4, MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
389C	14492
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x389C, FB %d (MUTING): State MUTING4, MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0x%x

3.293 389D, FB II (MUTING): State MUTING5, MutingEnable is set and the OssidIn-signals are invalid, the actual MuteIn/OssidIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
389D	14493
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x389D, FB %d (MUTING): State MUTING5, MutingEnable is set and the OssidIn-signals are invalid, the actual MuteIn/OssidIn-values are 0x%x

3.294 389E, 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 (Hex.)	Diagnostic Code (Dez.)
389E	14494
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x389E, FB %d (MUTING): State MUTING5, Sequential Inputs=TRUE: MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0x%x

3.295 389F, 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 (Hex.)	Diagnostic Code (Dez.)
389F	14495
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x389F, FB %d (MUTING): State MUTING5, Sequential Inputs=FALSE: MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0x%x

3.296 38A0, FB II (MUTING): State MUTING6, MutingEnable is set and the OssidIn-signals are invalid, the actual MuteIn/OssidIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
38A0	14496
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x38A0, FB %d (MUTING): State MUTING6, MutingEnable is set and the OssidIn-signals are invalid, the actual MuteIn/OssidIn-values are 0x%x

3.297 38A1, FB II (MUTING): State MUTING6, MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
38A1	14497
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x38A1, FB %d (MUTING): State MUTING6, MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0x%x

3.298 38A2, 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 (Hex.)	Diagnostic Code (Dez.)
38A2	14498
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x38A2, FB %d (MUTING): State MUTING7, MutingEnable is set and the MuteIn-signals before the AOPD are invalid, the actual MuteIn/OssdIn-values are 0x%x

3.299 38A3, 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 (Hex.)	Diagnostic Code (Dez.)
38A3	14499
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x38A3, FB %d (MUTING): State MUTING7, MutingEnable is set and the MuteIn-signals after the AOPD are invalid, the actual MuteIn/OssdIn-values are 0x%x

3.300 38A4, FB II (MUTING): State MUTING8, MutingEnable is set and the OssidIn-signals are invalid, the actual MuteIn/OssidIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
38A4	14500
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x38A4, FB %d (MUTING): State MUTING8, MutingEnable is set and the OssidIn-signals are invalid, the actual MuteIn/OssidIn-values are 0x%x

3.301 38A5, 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 (Hex.)	Diagnostic Code (Dez.)
38A5	14501
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x38A5, FB %d (MUTING): State MUTING8, Sequential Inputs=TRUE, CheckOssdOptional=TRUE: MutingEnable is set and the OssdIn-signals are invalid, the actual MuteIn/OssdIn-values are 0x%x

3.302 38A6, 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 (Hex.)	Diagnostic Code (Dez.)
38A6	14502
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x38A6, FB %d (MUTING): State MUTING8, Sequential Inputs=TRUE: MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0x%x

3.303 38A7, 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 (Hex.)	Diagnostic Code (Dez.)
38A7	14503
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x38A7, FB %d (MUTING): State MUTING8, Sequential Inputs=FALSE: MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0x%x

3.304 38A8, FB II (MUTING): State MUTING9, MutingEnable is set and the OssidIn-signals are invalid, the actual MuteIn/OssidIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
38A8	14504
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x38A8, FB %d (MUTING): State MUTING9, MutingEnable is set and the OssidIn-signals are invalid, the actual MuteIn/OssidIn-values are 0x%x

3.305 38A9, FB II (MUTING): State MUTING9, MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
38A9	14505
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x38A9, FB %d (MUTING): State MUTING9, MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0x%x

3.306 38AA, 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 (Hex.)	Diagnostic Code (Dez.)
38AA	14506
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x38AA, FB %d (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 0x%x

3.307 38AB, 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 (Hex.)	Diagnostic Code (Dez.)
38AB	14507
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x38AB, FB %d (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 0x%x

3.308 38AC, FB II (MUTING): State MUTING1, MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
38AC	14508
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x38AC, FB %d (MUTING): State MUTING1, MutingEnable is set and the MuteIn-signals are invalid, the actual MuteIn/OssdIn-values are 0x%x

3.309 38B0, FB II (MUTING): At least one activated EDM-Input was not re-set in RUN when the EDM Reset time had been expired (Diag-Code=0xXX)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
38B0	14512
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x38B0, FB %d (MUTING): At least one activated EDM-Input was not reset in RUN when the EDM Reset time had been expired (Diag-Code=0x%x)

3.310 38C1, FB II (MUTING): The Max-Muting-Time had been expired in state MUTING1 (Digital Inputs=0xXX)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
38C1	14529
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x38C1, FB %d (MUTING): The Max-Muting-Time had been expired in state MUTING1 (Digital Inputs=0x%x)

3.311 38C2, FB II (MUTING): The Max-Muting-Time had been expired in state MUTING2 (Digital Inputs=0xXX)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
38C2	14530
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x38C2, FB %d (MUTING): The Max-Muting-Time had been expired in state MUTING2 (Digital Inputs=0x%x)

3.312 38C3, FB II (MUTING): The Max-Muting-Time had been expired in state MUTING3 (Digital Inputs=0xXX)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
38C3	14531
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x38C3, FB %d (MUTING): The Max-Muting-Time had been expired in state MUTING3 (Digital Inputs=0x%x)

3.313 38C4, FB II (MUTING): The Max-Muting-Time had been expired in state MUTING4 (Digital Inputs=0xXX)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
38C4	14532
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x38C4, FB %d (MUTING): The Max-Muting-Time had been expired in state MUTING4 (Digital Inputs=0x%x)

3.314 38C5, FB II (MUTING): The Max-Muting-Time had been expired in state MUTING5 (Digital Inputs=0xXX)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
38C5	14533
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x38C5, FB %d (MUTING): The Max-Muting-Time had been expired in state MUTING5 (Digital Inputs=0x%x)

3.315 38C6, FB II (MUTING): The Max-Muting-Time had been expired in state MUTING6 (Digital Inputs=0xXX)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
38C6	14534
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x38C6, FB %d (MUTING): The Max-Muting-Time had been expired in state MUTING6 (Digital Inputs=0x%x)

3.316 38C7, FB II (MUTING): The Max-Muting-Time had been expired in state MUTING7 (Digital Inputs=0xXX)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
38C7	14535
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x38C7, FB %d (MUTING): The Max-Muting-Time had been expired in state MUTING7 (Digital Inputs=0x%x)

3.317 38C8, FB II (MUTING): The Max-Muting-Time had been expired in state MUTING8 (Digital Inputs=0xXX)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
38C8	14536
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x38C8, FB %d (MUTING): The Max-Muting-Time had been expired in state MUTING8 (Digital Inputs=0x%x)

3.318 38C9, FB II (MUTING): The Max-Muting-Time had been expired in state MUTING9 (Digital Inputs=0xXX)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
38C9	14537
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x38C9, FB %d (MUTING): The Max-Muting-Time had been expired in state MUTING9 (Digital Inputs=0x%x)

3.319 4001, FB II (CAMMON): The TDC2UpperLimit (II) is lower or equal than the maximum position jitter (II)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
4001	16385
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4001, FB %d (CAMMON): The TDC2UpperLimit (%d) is lower or equal than the maximum position jitter (%d)

3.320 4002, FB II (CAMMON): The Position (II) is bigger than the maximum position (plus the maximum position jitter) (II)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
4002	16386
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4002, FB %d (CAMMON): The Position (%d) is bigger than the maximum position (plus the maximum position jitter) (%d)

3.321 4003, FB II (CAMMON): The input OverrunCAM was FALSE in the top dead center area, the actual position is II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
4003	16387
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4003, FB %d (CAMMON): The input OverrunCAM was FALSE in the top dead center area, the actual position is %d

3.322 4004, 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 (Hex.)	Diagnostic Code (Dez.)
4004	16388
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x4004, FB %d (CAMMON): The input OverrunCAM changed from FALSE to TRUE outside the area between BDCUpperLimit and TDCLowerLimit, the actual position is %d*

3.323 4005, FB II (CAMMON): The input OverrunCAM was TRUE in the area between OverrunMax and BDCUpperLimit, the actual position is II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
4005	16389
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4005, FB %d (CAMMON): The input OverrunCAM was TRUE in the area between OverrunMax and BDCUpperLimit, the actual position is %d

3.324 4006, 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 (Hex.)	Diagnostic Code (Dez.)
4006	16390
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x4006, FB %d (CAMMON): The input OverrunCAM changed from TRUE to FALSE outside the area between OverrunMax and BDCLowerLimit, the actual position is %d*

3.325 4007, FB II (CAMMON): The input UpwardsCAM was FALSE in the area between BDCUpperLimit and TDCLowerLimit, the actual position is II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
4007	16391
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4007, FB %d (CAMMON): The input UpwardsCAM was FALSE in the area between BDCUpperLimit and TDCLowerLimit, the actual position is %d

3.326 4008, 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 (Hex.)	Diagnostic Code (Dez.)
4008	16392
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4008, FB %d (CAMMON): The input UpwardsCAM changed from FALSE to TRUE outside the area between BDCLowerLimit and TDCLowerLimit, the actual position is %d

3.327 4009, 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 (Hex.)	Diagnostic Code (Dez.)
4009	16393
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4009, FB %d (CAMMON): The input UpwardsCAM changed from TRUE to FALSE outside the area between TDCLowerLimit and OverrunMax, the actual position is %d

3.328 400A, FB II (CAMMON): The Position was moving while waiting for a rising edge of the input Reset in the state MOVE-STOP

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
400A	16394
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x400A, FB %d (CAMMON): The Position was moving while waiting for a rising edge of the input Reset in the state MOVE-STOP

3.329 400B, FB II (CAMMON): The Position was moving while waiting for a falling edge of the input Reset in the state MOVE-START

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
400B	16395
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x400B, FB %d (CAMMON): The Position was moving while waiting for a falling edge of the input Reset in the state MOVE-START

3.330 400C, FB II (CAMMON): The Position II in the area between Overrun-Max and BDCLowerLimit was detected in the state MOVE-UP

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
400C	16396
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x400C, FB %d (CAMMON): The Position %d in the area between OverrunMax and BDCLowerLimit was detected in the state MOVE-UP

3.331 400D, FB II (CAMMON): The Position has left the top dead center while waiting for a stop, the actual position is II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
400D	16397
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x400D, FB %d (CAMMON): The Position has left the top dead center while waiting for a stop, the actual position is %d

3.332 400E, FB II (CAMMON): The Position has been changed negative

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
400E	16398
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x400E, FB %d (CAMMON): The Position has been changed negative*

3.333 400F, FB II (CAMMON): The input UpwardsCAM was TRUE in the area between OverrunMax and BDCLowerLimit

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
400F	16399
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x400F, FB %d (CAMMON): The input UpwardsCAM was TRUE in the area between OverrunMax and BDCLowerLimit

3.334 4010, FB II (CAMMON): The Position has a circle overflow in Pendulum Mode, actual position=II, last position=II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
4010	16400
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4010, FB %d (CAMMON): The Position has a circle overflow in Pendulum Mode, actual position=%d, last position=%d

3.335 4011, 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 (Hex.)	Diagnostic Code (Dez.)
4011	16401
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4011, FB %d (CAMMON): The Position has moved while waiting for a rising edge of the input Reset in Pendulum Mode, actual position=%d, compare position=%d

3.336 4012, FB II (CAMMON): The Input BackwardsMove is TRUE while the Position is between 180° and 360°, the actual position is II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
4012	16402
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4012, FB %d (CAMMON): The Input BackwardsMove is TRUE while the Position is between 180° and 360°, the actual position is %d

3.337 4013, FB II (CAMMON): The Input BackwardsMove is TRUE while the moving is clockwise

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
4013	16403
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x4013, FB %d (CAMMON): The Input BackwardsMove is TRUE while the moving is clockwise*

3.338 4014, 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 (Hex.)	Diagnostic Code (Dez.)
4014	16404
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4014, FB %d (CAMMON): The Position has moved while waiting for a falling edge of the input Reset in Pendulum Mode, actual position=%d, last position=%d

3.339 4015, FB II (CAMMON): The value of TDCLowerLimit (plus maximum position jitter) (II) is bigger or equal the configured position of 360° (II)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
4015	16405
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4015, FB %d (CAMMON): The value of TDCLowerLimit (plus maximum position jitter) (%d) is bigger or equal the configured position of 360° (%d)

3.340 4016, 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 (Hex.)	Diagnostic Code (Dez.)
4016	16406
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4016, FB %d (CAMMON): The value of BDCUpperLimit (plus twice the maximum position jitter) (%d) is bigger or equal the value of TDCLowerLimit (%d)

3.341 4017, FB II (CAMMON): The value of BDCUpperLimit (II) is smaller or equal the configured value of 180° (plus maximum position jitter) (II)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
4017	16407
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4017, FB %d (CAMMON): The value of BDCUpperLimit (%d) is smaller or equal the configured value of 180° (plus maximum position jitter) (%d)

3.342 4018, FB II (CAMMON): The value of BDCLowerLimit (plus maximum position jitter) (II) is greater or equal the configured value of 180° (II)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
4018	16408
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4018, FB %d (CAMMON): The value of BDCLowerLimit (plus maximum position jitter) (%d) is greater or equal the configured value of 180° (%d)

3.343 4019, 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 (Hex.)	Diagnostic Code (Dez.)
4019	16409
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4019, FB %d (CAMMON): The value of OverrunMax (plus twice the maximum position jitter) (%d) is bigger or equal the value of BDCLowerLimit (%d)

3.344 401A, 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 (Hex.)	Diagnostic Code (Dez.)
401A	16410
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x401A, FB %d (CAMMON): The value of TDCUpperLimit (plus twice the maximum position jitter) (%d) is bigger or equal the value of OverrunMax (%d)

3.345 401B, 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 (Hex.)	Diagnostic Code (Dez.)
401B	16411
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x401B, FB %d (CAMMON): The value of TDC1UpperLimit (plus the maximum position jitter) (%d) is bigger or equal the configured position of 360° (%d)

3.346 401C, 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 (Hex.)	Diagnostic Code (Dez.)
401C	16412
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x401C, FB %d (CAMMON): The value of TDC1LowerLimit (plus twice the maximum position jitter) (%d) is bigger or equal the value of TDC1UpperLimit (5d)

3.347 401D, 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 (Hex.)	Diagnostic Code (Dez.)
401D	16413
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x401D, FB %d (CAMMON): The value of TDC2LowerLimit (plus twice the maximum position jitter) (%d) is bigger or equal the value of BDCLowerLimit (%d)

3.348 401E, 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 (Hex.)	Diagnostic Code (Dez.)
401E	16414
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x401E, FB %d (CAMMON): The value of TDC2UpperLimit (plus twice the maximum position jitter) (%d) is bigger or equal the value of TDC2LowerLimit (%d)

3.349 401F, FB II (CAMMON): The input PressStarted is TRUE and the position did not move after the PressStartedDelayTime

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
401F	16415
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x401F, FB %d (CAMMON): The input PressStarted is TRUE and the position did not move after the PressStartedDelayTime

3.350 4020, FB II (CAMMON): The input PressStarted is TRUE and the position has stopped after moving before

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
4020	16416
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x4020, FB %d (CAMMON): The input PressStarted is TRUE and the position has stopped after moving before*

3.351 4021, 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 (Hex.)	Diagnostic Code (Dez.)
4021	16417
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4021, FB %d (CAMMON): The input PressStarted is TRUE and the position has not moved enough, the actual position is %d, the compare position is %d

3.352 4022, FB II (CAMMON), Pendulum Mode: The Position has changed contra clockwise while moving up clockwise (actual Position=II, old Position=II)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
4022	16418
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4022, FB %d (CAMMON), Pendulum Mode: The Position has changed contra clockwise while moving up clockwise (actual Position=%d, old Position=%d)

3.353 4023, FB II (CAMMON), Pendulum Mode: The Position has changed clockwise while moving up contra clockwise (actual Position=II, old Position=II)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
4023	16419
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4023, FB %d (CAMMON), Pendulum Mode: The Position has changed clockwise while moving up contra clockwise (actual Position=%d, old Position=%d)

3.354 4024, 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 (Hex.)	Diagnostic Code (Dez.)
4024	16420
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4024, FB %d (CAMMON): The Position was moving while waiting for a falling edge of the input Reset in the state WAIT-FOR_RESET

3.355 4025, FB II (CAMMON): The TDCUpperLimit (II) is lower or equal than the maximum position jitter (II)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
4025	16421
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4025, FB %d (CAMMON): The TDCUpperLimit (%d) is lower or equal than the maximum position jitter (%d)

3.356 4080, FB II (ADD/SUB): an underflow was detected, AnalogIn1=II, AnalogIn2=II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
4080	16512
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4080, FB %d (ADD/SUB): an underflow was detected, AnalogIn1=%d, AnalogIn2=%d

3.357 4081, FB II (ADD/SUB): an overflow was detected, AnalogIn1=II, AnalogIn2=II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
4081	16513
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4081, FB %d (ADD/SUB): an overflow was detected, AnalogIn1=%d, AnalogIn2=%d

3.358 4088, FB II (SPEED): an underflow was detected, actual Position=II, old Position=II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
4088	16520
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4088, FB %d (SPEED): an underflow was detected, actual Position=%d, old Position=%d

3.359 4089, FB II (SPEED): an overflow was detected, actual Position=II, old Position=II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
4089	16521
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4089, FB %d (SPEED): an overflow was detected, actual Position=%d, old Position=%d

3.360 4090, FB II (LIMIT): the minimum value (II) is bigger than the maximum value (II)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
4090	16528
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4090, FB %d (LIMIT): the minimum value (%d) is bigger than the maximum value (%d)

3.361 4098, FB II (COMPARE): an underflow was detected on CompOut (II), the minimum allowed value is II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
4098	16536
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4098, FB %d (COMPARE): an underflow was detected on CompOut (%d), the minimum allowed value is %d

3.362 4099, FB II (COMPARE): an overflow was detected on CompOut (II), the maximum allowed value is II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
4099	16537
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x4099, FB %d (COMPARE): an overflow was detected on CompOut (%d), the maximum allowed value is %d

3.363 40A0, FB II (MUL): an underflow was detected, AnalogIn1=II, AnalogIn2=II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
40A0	16544
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x40A0, FB %d (MUL): an underflow was detected, AnalogIn1=%d, AnalogIn2=%d

3.364 40A1, FB II (MUL): an overflow was detected, AnalogIn1=II, AnalogIn2=II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
40A1	16545
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x40A1, FB %d (MUL): an overflow was detected, AnalogIn1=%d, AnalogIn2=%d

3.365 40A8, FB II (DIV): an underflow was detected, AnalogIn1=II, AnalogIn2=II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
40A8	16552
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x40A8, FB %d (DIV): an underflow was detected, AnalogIn1=%d, AnalogIn2=%d

3.366 40A9, FB II (DIV): an overflow was detected, AnalogIn1=II, AnalogIn2=II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
40A9	16553
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x40A9, FB %d (DIV): an overflow was detected, AnalogIn1=%d, AnalogIn2=%d*

3.367 40B0, FB II (SCALE): an underflow was detected, AnalogIn=II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
40B0	16560
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x40B0, FB %d (SCALE): an underflow was detected, AnalogIn=%d

3.368 40B1, FB II (SCALE): an overflow was detected, AnalogIn=II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
40B1	16561
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x40B1, FB %d (SCALE): an overflow was detected, AnalogIn=%d*

3.369 40B2, FB II (SCALE): an overflow was detected after multiplication, AnalogIn=II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
40B2	16562
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x40B2, FB %d (SCALE): an overflow was detected after multiplication, AnalogIn=%d

3.370 40B3, FB II (SCALE): an overflow was detected before division when rounding up the value, AnalogIn=II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
40B3	16563
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x40B3, FB %d (SCALE): an overflow was detected before division when rounding up the value, AnalogIn=%d*

3.371 40B8, FB II (COUNT): an underflow was detected on ActValue (II)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
40B8	16568
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x40B8, FB %d (COUNT): an underflow was detected on ActValue (%d)

3.372 40B9, FB II (COUNT): an overflow was detected on ActValue (II)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
40B9	16569
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x40B9, FB %d (COUNT): an overflow was detected on ActValue (%d)*

3.373 40C0, FB II (SLI): an underflow was detected on ActValue (II), the minimum allowed value is II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
40C0	16576
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x40C0, FB %d (SLI): an underflow was detected on Act-Value (%d), the minimum allowed value is %d

3.374 40C1, FB II (SLI): an overflow was detected on ActValue (II), the maximum allowed value is II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
40C1	16577
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x40C1, FB %d (SLI): an overflow was detected on Act-Value (%d), the maximum allowed value is %d*

3.375 40C8, FB II (ENVELOPE): an underflow was detected on InValue (II), the minimum allowed value is II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
40C8	16584
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x40C8, FB %d (ENVELOPE): an underflow was detected on InValue (%d), the minimum allowed value is %d

3.376 40C9, FB II (ENVELOPE): an overflow was detected on InValue (II), the maximum allowed value is II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
40C9	16585
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x40C9, FB %d (ENVELOPE): an overflow was detected on InValue (%d), the maximum allowed value is %d

3.377 40CA, FB II (ENVELOPE): an overflow error was detected on InValue (II), InValue+Offset is bigger than the maximum allowed value

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
40CA	16586
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x40CA, FB %d (ENVELOPE): an overflow error was detected on InValue (%d), InValue+Offset is bigger than the maximum allowed value

3.378 40CB, FB II (ENVELOPE): the MaxTime was expired (InValue=II)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
40CB	16587
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x40CB, FB %d (ENVELOPE): the MaxTime was expired (InValue=%d)

3.379 40D0, FB II (SLP): MultiturnPos_LL (II) is bigger than MultiturnPos_UL (II)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
40D0	16592
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x40D0, FB %d (SLP): MultiturnPos_LL (%d) is bigger than MultiturnPos_UL (%d)

3.380 40D1, FB II (SLP): MultiturnPos_LL=MultiturnPos_UL and SingleturnPos_LL (II) is bigger than SingleturnPos_UL (II)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
40D1	16593
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x40D1, FB %d (SLP): MultiturnPos_LL=MultiturnPos_UL and SingleturnPos_LL (%d) is bigger than SingleturnPos_UL (%d)

3.381 40D8, FB II (SBT): Brake-Test failed in state II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
40D8	16600
Class	Type
Warning	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x40D8, FB %d (SBT): Brake-Test failed in state %d

3.382 40D9, FB II (SBT): Brake-Test Interval expired in state II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
40D9	16601
Class	Type
Warning	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x40D9, FB %d (SBT): Brake-Test Interval expired in state %d

3.383 40DA, FB II (SBT): Brake-Test failed, Actual Position Deviation=II, Maximum Position Deviation=IIInterval expired in state II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
40DA	16602
Class	Type
Warning	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x40DA, FB %d (SBT): Brake-Test failed, Actual Position Deviation=%d, Maximum Position Deviation=%dInterval expired in state %d

3.384 6009, SAFEOUT:Initial-Parameter: MultiplierDiagTestPulse has to be greater zero. ModuleNr:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6009	24585
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6009, SAFEOUT:Initial-Parameter: MultiplierDiagTest-Pulse has to be greater zero. ModuleNr:0x%x

3.385 6010, SAFEOUT:Initial-Parameter: Number of Modules incorrect. ModuleNr:0xXX, Parameter:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6010	24592
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6010, SAFEOUT:Initial-Parameter: Number of Modules incorrect. ModuleNr:0x%x, Parameter:0x%x

3.386 6011, SAFEOUT:Initial-Parameter: Number of Channels incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6011	24593
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6011, SAFEOUT:Initial-Parameter: Number of Channels incorrect. Parameter0:0x%x, Parameter1:0x%x, Parameter2:0x%x

3.387 6012, SAFEOUT:Initial-Parameter: Number of Diagnosis active Module incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6012	24594
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6012, SAFEOUT:Initial-Parameter: Number of Diagnosis active Module incorrect. Parameter0:0x%x, Parameter1:0x%x, Parameter2:0x%x

3.388 6013, SAFEOUT:Initial-Parameter: Number of Diagnosis inactive Module incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6013	24595
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6013, SAFEOUT:Initial-Parameter: Number of Diagnosis inactive Module incorrect. Parameter0:0x%x, Parameter1:0x%x, Parameter2:0x%x

3.389 6014, SAFEOUT:Initial-Parameter: Number of Feedback active Module incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6014	24596
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6014, SAFEOUT:Initial-Parameter: Number of Feedback active Module incorrect. Parameter0:0x%x, Parameter1:0x%x, Parameter2:0x%x

3.390 6015, SAFEOUT:Initial-Parameter: Number of Feedback Diagnosis active Module incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6015	24597
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6015, SAFEOUT:Initial-Parameter: Number of Feedback Diagnosis active Module incorrect. Parameter0:0x%x, Parameter1:0x%x, Parameter2:0x%x

3.391 6016, SAFEOUT:Initial-Parameter: Number of Feedback inactive Module incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6016	24598
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6016, SAFEOUT:Initial-Parameter: Number of Feedback inactive Module incorrect. Parameter0:0x%x, Parameter1:0x%x, Parameter2:0x%x

3.392 6017, SAFEOUT:Initial-Parameter: Number of Feedback Diagnosis inactive Module incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6017	24599
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6017, SAFEOUT:Initial-Parameter: Number of Feedback Diagnosis inactive Module incorrect. Parameter0:0x%x, Parameter1:0x%x, Parameter2:0x%x

3.393 6018, SAFEOUT:Initial-Parameter: Number of Diagnosis active Channel incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6018	24600
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6018, SAFEOUT:Initial-Parameter: Number of Diagnosis active Channel incorrect. Parameter0:0x%x, Parameter1:0x%x, Parameter2:0x%x

3.394 6019, SAFEOUT:Initial-Parameter: Number of Diagnosis inactive Channel incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6019	24601
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6019, SAFEOUT:Initial-Parameter: Number of Diagnosis inactive Channel incorrect. Parameter0:0x%x, Parameter1:0x%x, Parameter2:0x%x

3.395 601A, SAFEOUT:Initial-Parameter: Number of Feedback active Channel incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
601A	24602
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x601A, SAFEOUT:Initial-Parameter: Number of Feedback active Channel incorrect. Parameter0:0x%x, Parameter1:0x%x, Parameter2:0x%x

3.396 601B, SAFEOUT:Initial-Parameter: Number of Feedback Diagnosis active Channel incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
601B	24603
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x601B, SAFEOUT:Initial-Parameter: Number of Feedback Diagnosis active Channel incorrect. Parameter0:0x%x, Parameter1:0x%x, Parameter2:0x%x

3.397 601C, SAFEOUT:Initial-Parameter: Number of Feedback inactive Channel incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
601C	24604
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x601C, SAFEOUT:Initial-Parameter: Number of Feedback inactive Channel incorrect. Parameter0:0x%x, Parameter1:0x%x, Parameter2:0x%x

3.398 601D, SAFEOUT:Initial-Parameter: Number of Feedback Diagnosis inactive Channel incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
601D	24605
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x601D, SAFEOUT:Initial-Parameter: Number of Feedback Diagnosis inactive Channel incorrect. Parameter0:0x%x, Parameter1:0x%x, Parameter2:0x%x

3.399 601E, SAFEOUT:Setup Hardware Fault: Module Switch. Return-Data:0xXX, ReturnState:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
601E	24606
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x601E, SAFEOUT:Setup Hardware Fault: Module Switch.
ReturnData:0x%x, ReturnState:0x%x

3.400 601F, SAFEOUT:Setup Hardware Fault: Diagnosis active Module. ReturnData:0xXX, ReturnState:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
601F	24607
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x601F, SAFEOUT:Setup Hardware Fault: Diagnosis active Module. ReturnData:0x%x, ReturnState:0x%x

3.401 6020, SAFEOUT:Setup Hardware Fault: Diagnosis inactive Module. ReturnData:0xXX, ReturnState:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6020	24608
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6020, SAFEOUT:Setup Hardware Fault: Diagnosis inactive Module. ReturnData:0x%x, ReturnState:0x%x

3.402 6021, SAFEOUT:Setup Hardware Fault: Feedback active Module. ReturnData:0xXX, ReturnState:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6021	24609
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6021, SAFEOUT:Setup Hardware Fault: Feedback active Module. ReturnData:0x%x, ReturnState:0x%x

3.403 6022, SAFEOUT:Setup Hardware Fault: Feedback Diagnosis active Module. ReturnData:0xXX, ReturnState:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6022	24610
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6022, SAFEOUT:Setup Hardware Fault: Feedback Diagnosis active Module. ReturnData:0x%x, ReturnState:0x%x

3.404 6023, SAFEOUT:Setup Hardware Fault: Feedback inactive Module. ReturnData:0xXX, ReturnState:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6023	24611
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6023, SAFEOUT:Setup Hardware Fault: Feedback inactive Module. ReturnData:0x%x, ReturnState:0x%x

3.405 6024, SAFEOUT:Setup Hardware Fault: Feedback Diagnosis inactive Module. ReturnData:0xXX, ReturnState:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6024	24612
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6024, SAFEOUT:Setup Hardware Fault: Feedback Diagnosis inactive Module. ReturnData:0x%x, ReturnState:0x%x

3.406 6025, SAFEOUT:Setup Hardware Fault: Channel Switch. Return-Data:0xXX, ReturnState:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6025	24613
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6025, SAFEOUT:Setup Hardware Fault: Channel Switch.
ReturnData:0x%x, ReturnState:0x%x

3.407 6026, SAFEOUT:Setup Hardware Fault: Diagnosis active Channel. ReturnData:0xXX, ReturnState:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6026	24614
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6026, SAFEOUT:Setup Hardware Fault: Diagnosis active Channel. ReturnData:0x%x, ReturnState:0x%x

3.408 6027, SAFEOUT:Setup Hardware Fault: Diagnosis inactive Channel. ReturnData:0xXX, ReturnState:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6027	24615
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6027, SAFEOUT:Setup Hardware Fault: Diagnosis inactive Channel. ReturnData:0x%x, ReturnState:0x%x

3.409 6028, SAFEOUT:Setup Hardware Fault: Feedback active Channel. ReturnData:0xXX, ReturnState:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6028	24616
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6028, SAFEOUT:Setup Hardware Fault: Feedback active Channel. ReturnData:0x%x, ReturnState:0x%x

3.410 6029, SAFEOUT:Setup Hardware Fault: Feedback Diagnosis active Channel. ReturnData:0xXX, ReturnState:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6029	24617
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6029, SAFEOUT:Setup Hardware Fault: Feedback Diagnosis active Channel. ReturnData:0x%x, ReturnState:0x%x

3.411 602A, SAFEOUT:Setup Hardware Fault: Feedback inactive Channel. ReturnData:0xXX, ReturnState:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
602A	24618
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x602A, SAFEOUT:Setup Hardware Fault: Feedback inactive Channel. ReturnData:0x%x, ReturnState:0x%x

3.412 602B, SAFEOUT:Setup Hardware Fault: Feedback Diagnosis inactive Channel. ReturnData:0xXX, ReturnState:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
602B	24619
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x602B, SAFEOUT:Setup Hardware Fault: Feedback Diagnosis inactive Channel. ReturnData:0x%x, ReturnState:0x%x

3.413 6030, SAFEOUT:The Feedback of the active Module Switch is wrong. Module:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6030	24624
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6030, SAFEOUT:The Feedback of the active Module Switch is wrong. Module:0x%x

3.414 6031, SAFEOUT:The Feedback of the inactive Module Switch is wrong. Module:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6031	24625
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6031, SAFEOUT:The Feedback of the inactive Module Switch is wrong. Module:0x%x

3.415 6032, SAFEOUT:The Feedback of the active Channel Switch is wrong. Module:0xXX / Channel:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6032	24626
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6032, SAFEOUT:The Feedback of the active Channel Switch is wrong. Module:0x%x / Channel:0x%x

3.416 6033, SAFEOUT:The Feedback of the inactive Channel Switch is wrong. Module:0xXX / Channel:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6033	24627
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6033, SAFEOUT:The Feedback of the inactive Channel Switch is wrong. Module:0x%x / Channel:0x%x

3.417 6040, SAFEOUT:Diagnosis Test: Common Fault Module:0xXX / DiagChannel:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6040	24640
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6040, SAFEOUT:Diagnosis Test: Common Fault Module:0x%x / DiagChannel:0x%x

3.418 6041, SAFEOUT:Diagnosis Test: Unknown State local ModuleState:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6041	24641
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6041, SAFEOUT:Diagnosis Test: Unknown State local ModuleState:0x%x

3.419 6042, SAFEOUT:Diagnosis Test: Unknown State other ModuleState:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6042	24642
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6042, SAFEOUT:Diagnosis Test: Unknown State other ModuleState:0x%x

3.420 6050, SAFEOUT:Diagnosis Test: Feedback active Module Switch is wrong (Step1 - check current state). Module:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6050	24656
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6050, SAFEOUT:Diagnosis Test: Feedback active Module Switch is wrong (Step1 - check current state). Module:0x%x

3.421 6051, SAFEOUT:Diagnosis Test: Feedback inactive Module Switch is wrong (Step1 - check current state). Module:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6051	24657
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6051, SAFEOUT:Diagnosis Test: Feedback inactive Module Switch is wrong (Step1 - check current state). Module:0x%x

3.422 6052, SAFEOUT:Diagnosis Test: Feedback active Channel Switch is wrong (Step1 - check current state). Module:0xXX / DiagChannel:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6052	24658
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6052, SAFEOUT:Diagnosis Test: Feedback active Channel Switch is wrong (Step1 - check current state). Module:0x%x / DiagChannel:0x%x

3.423 6053, SAFEOUT:Diagnosis Test: Feedback inactive Channel Switch is wrong (Step1 - check current state). Module:0xXX / DiagChannel:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6053	24659
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6053, SAFEOUT:Diagnosis Test: Feedback inactive Channel Switch is wrong (Step1 - check current state). Module:0x%x / DiagChannel:0x%x

3.424 6060, SAFEOUT:Diagnosis Test: Feedback active Module Switch is wrong (Step2 - check test pulse). Module:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6060	24672
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6060, SAFEOUT:Diagnosis Test: Feedback active Module Switch is wrong (Step2 - check test pulse). Module:0x%x

3.425 6061, SAFEOUT:Diagnosis Test: Feedback inactive Module Switch is wrong (Step2 - check test pulse). Module:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6061	24673
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6061, SAFEOUT:Diagnosis Test: Feedback inactive Module Switch is wrong (Step2 - check test pulse). Module:0x%x

3.426 6062, SAFEOUT:Diagnosis Test: Feedback active Channel Switch is wrong (Step2 - check test pulse). Module:0xXX / DiagChannel:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6062	24674
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6062, SAFEOUT:Diagnosis Test: Feedback active Channel Switch is wrong (Step2 - check test pulse). Module:0x%x / DiagChannel:0x%x

3.427 6063, SAFEOUT:Diagnosis Test: Feedback inactive Channel Switch is wrong (Step2 - check test pulse). Module:0xXX / DiagChannel:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6063	24675
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6063, SAFEOUT:Diagnosis Test: Feedback inactive Channel Switch is wrong (Step2 - check test pulse). Module:0x%x / DiagChannel:0x%x

3.428 6080, SAFEOUT:Diagnosis Test:VendorData. ID: 0xXX Module:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6080	24704
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6080, SAFEOUT:Diagnosis Test:VendorData. ID: 0x%x
Module:0x%x

3.429 6081, SAFEOUT:Diagnosis Test:VendorData. ID: 0xXX Module:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6081	24705
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6081, SAFEOUT:Diagnosis Test:VendorData. ID: 0x%x
Module:0x%x

3.430 6082, SAFEOUT:Diagnosis Test:VendorData. ID: 0xXX Module:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6082	24706
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6082, SAFEOUT:Diagnosis Test:VendorData. ID: 0x%x
Module:0x%x

3.431 6083, SAFEOUT:Diagnosis Test:VendorData. Channel: 0xXX Module:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6083	24707
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6083, SAFEOUT:Diagnosis Test:VendorData. Channel: 0x%x Module:0x%x

3.432 6084, SAFEOUT:Diagnosis Test:VendorData. Channel: 0xXX Module:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6084	24708
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6084, SAFEOUT:Diagnosis Test:VendorData. Channel: 0x%x Module:0x%x

3.433 6085, SAFEOUT:Diagnosis Test:VendorData. Channel: 0xXX Module:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6085	24709
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6085, SAFEOUT:Diagnosis Test:VendorData. Channel: 0x%x Module:0x%x

3.434 6086, SAFEOUT:Diagnosis Test:VendorData. Channel: 0xXX Module:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6086	24710
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6086, SAFEOUT:Diagnosis Test:VendorData. Channel: 0x%x Module:0x%x

3.435 6090, SAFEOUT:Module Switch FeedbackTest ViolationCounter incremented, Outputs active. Module:0xXX, Info:0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6090	24720
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6090, SAFEOUT:Module Switch FeedbackTest Violation-Counter incremented, Outputs active. Module:0x%x, Info:0x%x.

3.436 6091, SAFEOUT:Module Switch FeedbackTest ViolationCounter incremented, Outputs inactive. Module:0xXX, Info:0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6091	24721
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6091, SAFEOUT:Module Switch FeedbackTest Violation-Counter incremented, Outputs inactive. Module:0x%x, Info:0x%x.

3.437 6092, SAFEOUT:Channel Switch FeedbackTest ViolationCounter incremented, Outputs active. Module:0xXX, Channel:0xXX, Info:0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6092	24722
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6092, SAFEOUT:Channel Switch FeedbackTest ViolationCounter incremented, Outputs active. Module:0x%x, Channel:0x%x, Info:0x%x.

3.438 6093, SAFEOUT:Channel Switch FeedbackTest ViolationCounter incremented, Outputs inactive. Module:0xXX, Channel:0xXX, Info:0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6093	24723
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6093, SAFEOUT:Channel Switch FeedbackTest ViolationCounter incremented, Outputs inactive. Module:0x%x, Channel:0x%x, Info:0x%x.

3.439 6094, SAFEOUT:Module Switch DiagnosisTest ViolationCounter incremented, Outputs active (Step1 - check current state). Module:0xXX, Info:0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6094	24724
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6094, SAFEOUT:Module Switch DiagnosisTest Violation-Counter incremented, Outputs active (Step1 - check current state). Module:0x%x, Info:0x%x.

3.440 6095, SAFEOUT:Module Switch DiagnosisTest ViolationCounter incremented, Outputs inactive (Step1 - check current state). Module:0xXX, Info:0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6095	24725
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6095, SAFEOUT:Module Switch DiagnosisTest Violation-Counter incremented, Outputs inactive (Step1 - check current state). Module:0x%x, Info:0x%x.

3.441 6096, SAFEOUT:Channel Switch DiagnosisTest ViolationCounter incremented, Outputs active (Step1 - check current state). Module:0xXX, Channel:0xXX, Info:0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6096	24726
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6096, SAFEOUT:Channel Switch DiagnosisTest ViolationCounter incremented, Outputs active (Step1 - check current state). Module:0x%x, Channel:0x%x, Info:0x%x.

3.442 6097, SAFEOUT:Channel Switch DiagnosisTest ViolationCounter incremented, Outputs inactive (Step1 - check current state). Module:0xXX, Channel:0xXX, Info:0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6097	24727
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6097, SAFEOUT:Channel Switch DiagnosisTest ViolationCounter incremented, Outputs inactive (Step1 - check current state). Module:0x%x, Channel:0x%x, Info:0x%x.

3.443 6098, SAFEOUT:Module Switch DiagnosisTest ViolationCounter incremented, Outputs active (Step2 - check test pulse). Module:0xXX, Info:0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6098	24728
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6098, SAFEOUT:Module Switch DiagnosisTest Violation-Counter incremented, Outputs active (Step2 - check test pulse). Module:0x%x, Info:0x%x.

3.444 6099, SAFEOUT:Module Switch DiagnosisTest ViolationCounter incremented, Outputs inactive (Step2 - check test pulse). Module:0xXX, Info:0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6099	24729
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x6099, SAFEOUT:Module Switch DiagnosisTest Violation-Counter incremented, Outputs inactive (Step2 - check test pulse). Module:0x%x, Info:0x%x.

3.445 609A, SAFEOUT:Channel Switch DiagnosisTest ViolationCounter incremented, Outputs active (Step2 - check test pulse). Module:0xXX, Channel:0xXX, Info:0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
609A	24730
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x609A, SAFEOUT:Channel Switch DiagnosisTest ViolationCounter incremented, Outputs active (Step2 - check test pulse). Module:0x%x, Channel:0x%x, Info:0x%x.

3.446 609B, SAFEOUT:Channel Switch DiagnosisTest ViolationCounter incremented, Outputs inactive (Step2 - check test pulse). Module:0xXX, Channel:0xXX, Info:0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
609B	24731
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x609B, SAFEOUT:Channel Switch DiagnosisTest ViolationCounter incremented, Outputs inactive (Step2 - check test pulse). Module:0x%x, Channel:0x%x, Info:0x%x.

3.447 60A0, SAFEOUT:Sercom Fault 0. Cmd/State:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
60A0	24736
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x60A0, SAFEOUT:Sercom Fault 0. Cmd/State:0x%x

3.448 60A1, SAFEOUT:Sercom Fault 1. Cmd/State:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
60A1	24737
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x60A1, SAFEOUT:Sercom Fault 1. Cmd/State:0x%x

3.449 60B0, SAFEOUT:Unknown Sercom Command Request 1. Cmd/ State:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
60B0	24752
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x60B0, SAFEOUT:Unknown Sercom Command Request
1. Cmd/State:0x%x

**3.450 60B1, SAFEOUT:Unknown Sercom Command Answer 1. Cmd/
State:0xXX**

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
60B1	24753
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x60B1, SAFEOUT:Unknown Sercom Command Answer
1. Cmd/State:0x%x

3.451 60B2, SAFEOUT:Unknown Sercom Command Request 2. Cmd/ State:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
60B2	24754
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x60B2, SAFEOUT:Unknown Sercom Command Request
2. Cmd/State:0x%x

**3.452 60B3, SAFEOUT:Unknown Sercom Command Answer 2. Cmd/
State:0xXX**

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
60B3	24755
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x60B3, SAFEOUT:Unknown Sercom Command Answer
2. Cmd/State:0x%x

3.453 60C0, SAFEOUT:Module Switch too fast Switching OFF detected Fault (see technical data). Module:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
60C0	24768
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x60C0, SAFEOUT:Module Switch too fast Switching OFF detected Fault (see technical data). Module:0x%x

3.454 60C1, SAFEOUT:Channel Switch too fast Switching OFF detected Fault (see technical data). Module:0xXX / Channel:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
60C1	24769
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x60C1, SAFEOUT:Channel Switch too fast Switching OFF detected Fault (see technical data). Module:0x%x / Channel:0x%x

3.455 60C2, SAFEOUT:Module Switch too fast Switching ON detected Fault (see technical data). Module:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
60C2	24770
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x60C2, SAFEOUT:Module Switch too fast Switching ON detected Fault (see technical data). Module:0x%x

3.456 60C3, SAFEOUT:Channel Switch too fast Switching ON detected Fault (see technical data). Module:0xXX / Channel:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
60C3	24771
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x60C3, SAFEOUT:Channel Switch too fast Switching ON detected Fault (see technical data). Module:0x%x / Channel:0x%x

3.457 60C4, SAFEOUT:Module Error Acknowledge is not possible. Module:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
60C4	24772
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x60C4, SAFEOUT:Module Error Acknowledge is not possible. Module:0x%x

3.458 60E0, SAFEOUT:HAL Read Fault. ReturnData:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
60E0	24800
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x60E0, SAFEOUT:HAL Read Fault. ReturnData:0x%x

3.459 60E1, SAFEOUT:Init Fault. Module:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
60E1	24801
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x60E1, SAFEOUT:Init Fault. Module:0x%x

3.460 8009, SAFEIN:Initial-Parameter: MultiplierDiagTestPulse has to be greater zero. ModuleNr:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8009	32777
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x8009, SAFEIN:Initial-Parameter: MultiplierDiagTestPulse has to be greater zero. ModuleNr:0x%x

3.461 8010, SAFEIN:Initial-Parameter: Number of Modules incorrect. ModuleNr:0xXX, Parameter:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8010	32784
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x8010, SAFEIN:Initial-Parameter: Number of Modules incorrect. ModuleNr:0x%x, Parameter:0x%x

3.462 8011, SAFEIN:Initial-Parameter: Number of Channels incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8011	32785
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x8011, SAFEIN:Initial-Parameter: Number of Channels incorrect. Parameter0:0x%x, Parameter1:0x%x, Parameter2:0x%x

3.463 8018, SAFEIN:Initial-Parameter: Number of Diagnosis active Channel incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8018	32792
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x8018, SAFEIN:Initial-Parameter: Number of Diagnosis active Channel incorrect. Parameter0:0x%x, Parameter1:0x%x, Parameter2:0x%x

3.464 801B, SAFEIN:Initial-Parameter: Number of Feedback Diagnosis active Channel incorrect. Parameter0:0xXX, Parameter1:0xXX, Parameter2:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
801B	32795
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x801B, SAFEIN:Initial-Parameter: Number of Feedback Diagnosis active Channel incorrect. Parameter0:0x%x, Parameter1:0x%x, Parameter2:0x%x

3.465 8025, SAFEIN:Setup Hardware Fault: Channel Switch. Return-Data:0xXX, ReturnState:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8025	32805
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x8025, SAFEIN:Setup Hardware Fault: Channel Switch.
ReturnData:0x%x, ReturnState:0x%x

3.466 8026, SAFEIN:Setup Hardware Fault: Diagnosis active Channel. ReturnData:0xXX, ReturnState:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8026	32806
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x8026, SAFEIN:Setup Hardware Fault: Diagnosis active Channel. ReturnData:0x%x, ReturnState:0x%x

3.467 8029, SAFEIN:Setup Hardware Fault: Feedback Diagnosis active Channel. ReturnData:0xXX, ReturnState:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8029	32809
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x8029, SAFEIN:Setup Hardware Fault: Feedback Diagnosis active Channel. ReturnData:0x%x, ReturnState:0x%x

3.468 8040, SAFEIN:Diagnosis Test: Common Fault Module:0xXX / DiagChannel:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8040	32832
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x8040, SAFEIN:Diagnosis Test: Common Fault Module:0x%x / DiagChannel:0x%x

3.469 8041, SAFEIN:Diagnosis Test: Unknown State local ModuleState:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8041	32833
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x8041, SAFEIN:Diagnosis Test: Unknown State local
ModuleState:0x%x

3.470 8042, SAFEIN:Diagnosis Test: Unknown State Other ModuleState:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8042	32834
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x8042, SAFEIN:Diagnosis Test: Unknown State Other ModuleState:0x%x

3.471 8043, SAFEIN Pulse Detection: Wrong pulse was detected at . Module:0xXX / DiagChannel:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8043	32835
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x8043, SAFEIN Pulse Detection: Wrong pulse was detected at . Module:0x%x / DiagChannel:0x%x

3.472 8044, SAFEIN Pulse Detection: Detected pulse from Module:0xXX / DiagChannel:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8044	32836
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x8044, SAFEIN Pulse Detection: Detected pulse from
Module:0x%x / DiagChannel:0x%x

3.473 8052, SAFEIN:Diagnosis Test: Feedback in Step1 active Channel is wrong. Module:0xXX / DiagChannel:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8052	32850
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x8052, SAFEIN:Diagnosis Test: Feedback in Step1 active Channel is wrong. Module:0x%x / DiagChannel:0x%x

3.474 8062, SAFEIN:Diagnosis Test: Feedback in Step2 active Channel is wrong. Module:0xXX / DiagChannel:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8062	32866
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x8062, SAFEIN:Diagnosis Test: Feedback in Step2 active Channel is wrong. Module:0x%x / DiagChannel:0x%x

3.475 8080, SAFEIN:Diagnosis Test:VendorData. ID: 0xXX Module:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8080	32896
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x8080, SAFEIN:Diagnosis Test:VendorData. ID: 0x%x
Module:0x%x

3.476 8081, SAFEIN:Diagnosis Test:VendorData. ID: 0xXX Module:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8081	32897
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x8081, SAFEIN:Diagnosis Test:VendorData. ID: 0x%x
Module:0x%x

3.477 8084, SAFEIN:Diagnosis Test:VendorData. Channel: 0xXX Module:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8084	32900
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x8084, SAFEIN:Diagnosis Test:VendorData. Channel: 0x%x Module:0x%x

3.478 8085, SAFEIN:Diagnosis Test:VendorData. Channel: 0xXX Module:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8085	32901
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x8085, SAFEIN:Diagnosis Test:VendorData. Channel: 0x%x Module:0x%x

3.479 8086, SAFEIN:Diagnosis Test:VendorData. Channel: 0xXX Module:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8086	32902
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x8086, SAFEIN:Diagnosis Test:VendorData. Channel: 0x%x Module:0x%x

3.480 8096, SAFEIN:DiagnosisTest ViolationCounter incremented, Inputs active (Step1 - check current state). Module:0xXX, Channel:0xXX, Info:0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8096	32918
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x8096, SAFEIN:DiagnosisTest ViolationCounter incremented, Inputs active (Step1 - check current state). Module:0x%x, Channel:0x%x, Info:0x%x.

3.481 809A, SAFEIN:DiagnosisTest ViolationCounter incremented, Inputs active (Step2 - check test pulse). Module:0xXX, Channel:0xXX, Info:0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
809A	32922
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x809A, SAFEIN:DiagnosisTest ViolationCounter incremented, Inputs active (Step2 - check test pulse). Module:0x%x, Channel:0x%x, Info:0x%x.

3.482 80A0, SAFEIN:Sercom Fault 0. Cmd/State:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
80A0	32928
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x80A0, SAFEIN:Sercom Fault 0. Cmd/State:0x%x

3.483 80A1, SAFEIN:Sercom Fault 1. Cmd/State:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
80A1	32929
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x80A1, SAFEIN:Sercom Fault 1. Cmd/State:0x%x

**3.484 80B0, SAFEIN:Unknown Sercom Command Request 1. Cmd/
State:0xXX**

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
80B0	32944
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x80B0, SAFEIN:Unknown Sercom Command Request 1.
Cmd/State:0x%x

3.485 80B1, SAFEIN:Unknown Sercom Command Answer 1. Cmd/State:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
80B1	32945
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x80B1, SAFEIN:Unknown Sercom Command Answer 1.
Cmd/State:0x%x

**3.486 80B2, SAFEIN:Unknown Sercom Command Request 2. Cmd/
State:0xXX**

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
80B2	32946
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x80B2, SAFEIN:Unknown Sercom Command Request 2.
Cmd/State:0x%x

3.487 80B3, SAFEIN:Unknown Sercom Command Answer 2. Cmd/State:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
80B3	32947
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x80B3, SAFEIN:Unknown Sercom Command Answer 2.
Cmd/State:0x%x

3.488 80C0, SAFEIN>Error Acknowledge is not possible. Module:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
80C0	32960
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x80C0, SAFEIN>Error Acknowledge is not possible. Module:0x%x

3.489 80C1, SAFEIN:Diagnosis Test: Implausible Inputs detected. Module:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
80C1	32961
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x80C1, SAFEIN:Diagnosis Test: Implausible Inputs detected. Module:0x%x

3.490 80C2, SAFEIN:Diagnosis Test: Implausible Inputs detected (INFO). Parameter1:0xXX / Parameter2:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
80C2	32962
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x80C2, SAFEIN:Diagnosis Test: Implausible Inputs detected (INFO). Parameter1:0x%x / Parameter2:0x%x

3.491 80E0, SAFEIN:Init HAL Fault.ReturnState:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
80E0	32992
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x80E0, SAFEIN:Init HAL Fault.ReturnState:0x%x

3.492 80E1, SAFEIN:Init Fault. Module:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
80E1	32993
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x80E1, SAFEIN:Init Fault. Module:0x%x

3.493 80F0, SAFEIN: Testpulse is parametrized but not enabled (Diag Testpulse for Inputs active). Module:0xXX / Channel:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
80F0	33008
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x80F0, SAFEIN: Testpulse is parametrized but not enabled (Diag Testpulse for Inputs active). Module:0x%x / Channel:0x%x

3.494 80F1, SAFEIN: Testpulse is parametrized but not enabled (Diag TestPulse active). Module:0xXX / Channel:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
80F1	33009
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x80F1, SAFEIN: Testpulse is parametrized but not enabled (Diag TestPulse active). Module:0x%x / Channel:0x%x

3.495 80F2, SAFEIN: Testfilter-Time too long. Parameter1:0xXX / Parameter2:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
80F2	33010
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x80F2, SAFEIN: Testfilter-Time too long. Parameter1:0x%x / Parameter2:0x%x

3.496 80F3, SAFEIN: Inputfilter-Time too short. Parameter1:0xXX / Parameter2:0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
80F3	33011
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0x80F3, SAFEIN: Inputfilter-Time too short. Parameter1:0x%x / Parameter2:0x%x*

3.497 80F4, SAFEIN: Wrong parameters detected for Module:0xXX / Channel:0xXX. Please check parameters!

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
80F4	33012
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0x80F4, SAFEIN: Wrong parameters detected for Module:0x%x / Channel:0x%x. Please check parameters!

3.498 A081, Transition Pre-Op to Safe-Op not successful. Safetycard not detected.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A081	41089
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xA081, Transition Pre-Op to Safe-Op not successful.
Safetycard not detected.

3.499 D000, ENCODER: Module: 0xXX. No Error

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D000	53248
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD000, ENCODER: Module: 0x%x. No Error

3.500 D010, ENCODER: Module: 0xXX in State 0xXX. Microcontroller async detected. Info: 0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D010	53264
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD010, ENCODER: Module: 0x%x in State 0x%x. Microcontroller async detected. Info: 0x%x.*

3.501 D021, ENCODER: Module: 0xXX in State 0xXX. Encoder is in State 'to enable' and Voltage is too low. Info: 0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D021	53281
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD021, ENCODER: Module: 0x%x in State 0x%x. Encoder is in State 'to enable' and Voltage is too low. Info: 0x%x.

3.502 D022, ENCODER: Module: 0xXX in State 0xXX. Encoder is in State 'to enable' but requested disable. Info: 0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D022	53282
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD022, ENCODER: Module: 0x%x in State 0x%x. Encoder is in State 'to enable' but requested disable. Info: 0x%x.

3.503 D071, ENCODER: Module: 0xXX in State 0xXX. Encoder is in State 'to disable' and Voltage is too high. Info: 0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D071	53361
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD071, ENCODER: Module: 0x%x in State 0x%x. Encoder is in State 'to disable' and Voltage is too high. Info: 0x%x.

3.504 D072, ENCODER: Module: 0xXX in State 0xXX. Encoder is in State 'to enable' and Voltage is too high. Info: 0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D072	53362
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD072, ENCODER: Module: 0x%x in State 0x%x. Encoder is in State 'to enable' and Voltage is too high. Info: 0x%x.

3.505 D073, ENCODER: Module: 0xXX in State 0xXX. Encoder is in State 'enabled' and Voltage is too high. Info: 0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D073	53363
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD073, ENCODER: Module: 0x%x in State 0x%x. Encoder is in State 'enabled' and Voltage is too high. Info: 0x%x.

3.506 D074, ENCODER: Module: 0xXX in State 0xXX. Encoder is in State 'to disable' but requested enable. Info: 0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D074	53364
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD074, ENCODER: Module: 0x%x in State 0x%x. Encoder is in State 'to disable' but requested enable. Info: 0x%x.

3.507 D180, Primary MC: SAFETY FEEDBACK Module: 0xXX in State 0xXX. No Error

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D180	53632
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD180, Primary MC: SAFETY FEEDBACK Module: 0x%x in State 0x%x. No Error

3.508 D181, Primary MC: SAFETY FEEDBACK Module: 0xXX in State 0xXX. No new Position received

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D181	53633
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD181, Primary MC: SAFETY FEEDBACK Module: 0x%x in State 0x%x. No new Position received*

3.509 D182, Primary MC: SAFETY FEEDBACK Module: 0xXX. Invalid Position. Errorcode: 0xXX Info: 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D182	53634
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD182, Primary MC: SAFETY FEEDBACK Module: 0x%x.
Invalid Position. Errorcode: 0x%x Info: 0x%x

**3.510 D183, Primary MC: SAFETY FEEDBACK Module: 0xXX in State 0xXX.
DriveApplication reports Feedback Error 0xXX**

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D183	53635
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD183, Primary MC: SAFETY FEEDBACK Module: 0x%x
in State 0x%x. DriveApplication reports Feedback Error 0x%x

3.511 D184, Primary MC: SAFETY FEEDBACK Module: 0xXX. Safety OCT Feedback not supported by Hardware

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D184	53636
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD184, Primary MC: SAFETY FEEDBACK Module: 0x%x.
Safety OCT Feedback not supported by Hardware

3.512 D185, Primary MC: SAFETY FEEDBACK Module: 0xXX. EnDat2.2 Feedback not supported by Hardware

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D185	53637
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD185, Primary MC: SAFETY FEEDBACK Module: 0x%x.
EnDat2.2 Feedback not supported by Hardware

3.513 D186, Primary MC: SAFETY FEEDBACK Invalid drive application data received. Invalid CRC. Module Id: II Calculated CRC: 0xXX Received CRC: 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D186	53638
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD186, Primary MC: SAFETY FEEDBACK Invalid drive application data received. Invalid CRC. Module Id: %d Calculated CRC: 0x%x Received CRC: 0x%x

3.514 D187, Primary MC: SAFETY FEEDBACK Invalid drive application data received. Invalid Command: 0xXX Module Id: II type: 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D187	53639
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD187, Primary MC: SAFETY FEEDBACK Invalid drive application data received. Invalid Command: 0x%x Module Id: %d type: 0x%x

3.515 D188, Primary MC: SAFETY FEEDBACK Module: 0xXX. configured Safety User Parameter CRC (0xXX) did not match with Feedback Parameter CRC

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D188	53640
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD188, Primary MC: SAFETY FEEDBACK Module: 0x%x.
configured Safety User Parameter CRC (0x%x) did not match with
Feedback Parameter CRC

3.516 D189, Primary MC: SAFETY FEEDBACK Module: 0xXX. Module state sync error. local: 0xXX other: 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D189	53641
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD189, Primary MC: SAFETY FEEDBACK Module: 0x%x.
Module state sync error. local: 0x%x other: 0x%x

3.517 D18A, Primary MC: SAFETY FEEDBACK: FPGA is not validated with this firmware. Elapsed time: II seconds

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D18A	53642
Class	Type
Warning	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD18A, Primary MC: SAFETY FEEDBACK: FPGA is not validated with this firmware. Elapsed time: %d seconds

3.518 D18B, Primary MC: SAFETY FEEDBACK Module: 0xXX. Stored Feedback Parameter CRC (0xXX) and Safety User Parameter CRC (0xXX) did not match

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D18B	53643
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD18B, Primary MC: SAFETY FEEDBACK Module: 0x%x.
Stored Feedback Parameter CRC (0x%x) and Safety User Parameter CRC (0x%x) did not match

3.519 D18C, Primary MC: SAFETY FEEDBACK Module: 0xXX. Encoder Safety User Parameter CRC configured but Drive Application (Slot Configuration) not set

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D18C	53644
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD18C, Primary MC: SAFETY FEEDBACK Module: 0x%x.
Encoder Safety User Parameter CRC configured but Drive Application (Slot Configuration) not set

3.520 D18D, Primary MC: SAFETY FEEDBACK Module: 0xXX. Cannot enable because module is not configured. State: 0xXX DriveAppl: 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D18D	53645
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD18D, Primary MC: SAFETY FEEDBACK Module: 0x%x.
Cannot enable because module is not configured. State: 0x%x
DriveAppl: 0x%x

3.521 D18E, Primary MC: SAFETY FEEDBACK Module: 0xXX. Double used Parameter CRC (0xXX). Info: 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D18E	53646
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD18E, Primary MC: SAFETY FEEDBACK Module: 0x%x.
Double used Parameter CRC (0x%x). Info: 0x%x

3.522 D18F, Primary MC: SAFETY FEEDBACK Module: 0xXX. Encoder Voltage not enabled. State: 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D18F	53647
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD18F, Primary MC: SAFETY FEEDBACK Module: 0x%x.
Encoder Voltage not enabled. State: 0x%x

3.523 D190, Primary MC: SAFETY FEEDBACK Module: 0xXX. Encoder data buffer overrun. State: 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D190	53648
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD190, Primary MC: SAFETY FEEDBACK Module: 0x%x.
Encoder data buffer overrun. State: 0x%x

3.524 D191, Primary MC: SAFETY FEEDBACK Module: 0xXX. Cannot read Encoder info block. Return Code: 0xXX Info: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D191	53649
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD191, Primary MC: SAFETY FEEDBACK Module: 0x%x.
Cannot read Encoder info block. Return Code: 0x%x Info: %d

3.525 D192, Primary MC: SAFETY FEEDBACK Invalid drive application data received. Module Id exceeded: II Expected max: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D192	53650
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD192, Primary MC: SAFETY FEEDBACK Invalid drive application data received. Module Id exceeded: %d Expected max: %d

3.526 D193, Primary MC: SAFETY FEEDBACK Invalid drive application data received. Data length too long: II Expected max: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D193	53651
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD193, Primary MC: SAFETY FEEDBACK Invalid drive application data received. Data length too long: %d Expected max: %d

3.527 D194, Primary MC: SAFETY FEEDBACK Invalid drive application data received. Data length too short: II Expected min: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D194	53652
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD194, Primary MC: SAFETY FEEDBACK Invalid drive application data received. Data length too short: %d Expected min: %d

3.528 D195, Primary MC: SAFETY FEEDBACK Module: 0xXX. Invalid drive application data received. Not allowed in this state: II Command: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D195	53653
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD195, Primary MC: SAFETY FEEDBACK Module: 0x%x.
Invalid drive application data received. Not allowed in this state: %d
Command: %d

3.529 D196, Primary MC: SAFETY FEEDBACK Module: 0xXX. Error during position calculation. Info: 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D196	53654
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD196, Primary MC: SAFETY FEEDBACK Module: 0x%x.
Error during position calculation. Info: 0x%x

3.530 D197, Primary MC: SAFETY FEEDBACK Invalid Safety FPGA interface version. Info: 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D197	53655
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD197, Primary MC: SAFETY FEEDBACK Invalid Safety FPGA interface version. Info: 0x%x

3.531 D198, Primary MC: SAFETY FEEDBACK Module: 0xXX. Invalid Safedrive Settings Parameter II. value: 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D198	53656
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD198, Primary MC: SAFETY FEEDBACK Module: 0x%x.
Invalid Safedrive Settings Parameter %d. value: 0x%x

3.532 D199, Primary MC: SAFETY FEEDBACK Module: 0xXX. Not supported by this firmware. CRC: 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D199	53657
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD199, Primary MC: SAFETY FEEDBACK Module: 0x%x.
Not supported by this firmware. CRC: 0x%x

3.533 D19A, Primary MC: SAFETY FEEDBACK Module: 0xXX. Safe user parameter position shift value is too large. SingleturnPositionBits: II PositionShiftValue: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D19A	53658
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD19A, Primary MC: SAFETY FEEDBACK Module: 0x%x.
 Safe user parameter position shift value is too large. SingleturnPositionBits: %d PositionShiftValue: %d

3.534 D19B, Primary MC: SAFETY FEEDBACK Module: 0xXX. Motor exchange cannot performed. Stored and current Encoder Parameter mismatch (Subidx: II). Current Encoder Index: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D19B	53659
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD19B, Primary MC: SAFETY FEEDBACK Module: 0x%x.
Motor exchange cannot performed. Stored and current Encoder Parameter mismatch (Subidx: %d). Current Encoder Index: %d

3.535 D19C, Primary MC: SAFETY FEEDBACK Module: 0xXX. Motor exchange cannot performed because other module II is in fault state with errorcode 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D19C	53660
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD19C, Primary MC: SAFETY FEEDBACK Module: 0x%x.
 Motor exchange cannot performed because other module %d is in
 fault state with errorcode 0x%x

3.536 D19D, Primary MC: SAFETY FEEDBACK Module: 0xXX. Motor exchange detected and successfully done.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D19D	53661
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD19D, Primary MC: SAFETY FEEDBACK Module: 0x%x.
Motor exchange detected and successfully done.

3.537 D19E, Primary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: EnableForSetReferencingPosition is disabled but reference position is not zero. Ref SingleturnPos: II RefMultiturnPos: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D19E	53662
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD19E, Primary MC: SAFETY FEEDBACK Module: 0x%x.
 SafeUserParameter: EnableForSetReferencingPosition is disabled
 but reference position is not zero. Ref SingleturnPos: %d RefMulti-
 turnPos: %d

3.538 D19F, Primary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: MinimumReferencePostion (Singleturn:0xXX Multiturn:II) is larger than MaximumReferencePosition

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D19F	53663
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD19F, Primary MC: SAFETY FEEDBACK Module: 0x%x.
 SafeUserParameter: MinimumReferencePostion (Singleturn:0x%x
 Multiturn:%d) is larger than MaximumReferencePosition

3.539 D1A0, Primary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: ReferenceSafePosition (Singleturn:0xXX Multiturn:II) is too small. Position exceeded minimum Range

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D1A0	53664
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD1A0, Primary MC: SAFETY FEEDBACK Module: 0x%x.
SafeUserParameter: ReferenceSafePosition (Singleturn:0x%x Multiturn:%d) is too small. Position exceeded minimum Range

3.540 D1A1, Primary MC: SAFETY FEEDBACK SafeUserParameter: Cyclic FRAM data size is not large enough. Allocated size: II Requested size: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D1A1	53665
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD1A1, Primary MC: SAFETY FEEDBACK SafeUserParameter: Cyclic FRAM data size is not large enough. Allocated size: %d Requested size: %d

3.541 D1A2, Primary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: Difference between minimal and maximal configured position is too large. Difference: Singleturn:0xXX Multiturn:II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D1A2	53666
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD1A2, Primary MC: SAFETY FEEDBACK Module: 0x%x.
 SafeUserParameter: Difference between minimal and maximal configured position is too large. Difference: Singleturn:0x%x Multiturn: %d

3.542 D1A3, Primary MC: SAFETY FEEDBACK Module: 0xXX. Referencing of position in automatic mode is required. No stored position found.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D1A3	53667
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD1A3, Primary MC: SAFETY FEEDBACK Module: 0x%x.
Referencing of position in automatic mode is required. No stored position found.

3.543 D1A4, 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 (Hex.)	Diagnostic Code (Dez.)
D1A4	53668
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD1A4, Primary MC: SAFETY FEEDBACK Module: 0x%x.
Referencing of position cannot be achieved because motor speed is too high. current Speed: %d configured limit: %d

3.544 D1A5, Primary MC: SAFETY FEEDBACK Module: 0xXX. Position deviation on startup is too large. Difference: Singleturn:0xXX Multiturn:II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D1A5	53669
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD1A5, Primary MC: SAFETY FEEDBACK Module: 0x%x.
Position deviation on startup is too large. Difference: Single-
turn:0x%x Multiturn:%d

3.545 D1A6, Primary MC: SAFETY FEEDBACK Module: 0xXX. Referenced position exceeded configured minimum range. Current position: Singleturn:0xXX Multiturn:II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D1A6	53670
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD1A6, Primary MC: SAFETY FEEDBACK Module: 0x%x.
Referenced position exceeded configured minimum range. Current
position: Singleturn:0x%x Multiturn:%d

3.546 D1A7, Primary MC: SAFETY FEEDBACK Module: 0xXX. Referenced position exceeded configured maximum range. Current position: Singleturn:0xXX Multiturn:II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D1A7	53671
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD1A7, Primary MC: SAFETY FEEDBACK Module: 0x%x.
Referenced position exceeded configured maximum range. Current
position: Singleturn:0x%x Multiturn:%d

3.547 D1A8, Primary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: ReferenceSafePosition (Singleturn:0xXX Multiturn:II) is too large. Position exceeded maximum Range

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D1A8	53672
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD1A8, Primary MC: SAFETY FEEDBACK Module: 0x%x.
SafeUserParameter: ReferenceSafePosition (Singleturn:0x%x Multiturn:%d) is too large. Position exceeded maximum Range

3.548 D1A9, Primary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: Referencing Optional Parameter size is invalid. Info: 0xXX. 0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D1A9	53673
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD1A9, Primary MC: SAFETY FEEDBACK Module: 0x%x.
SafeUserParameter: Referencing Optional Parameter size is invalid.
Info: 0x%x. 0x%x.

3.549 D1AA, 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 (Hex.)	Diagnostic Code (Dez.)
D1AA	53674
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD1AA, Primary MC: SAFETY FEEDBACK Module: 0x%x. Invalid feedback configuration. Same encoder type on primary and secondary feedback is not permitted. Other Module: %d type:%d

3.550 D1AB, Primary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: Invalid referencing operation mode selected: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D1AB	53675
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD1AB, Primary MC: SAFETY FEEDBACK Module: 0x%x. SafeUserParameter: Invalid referencing operation mode selected: %d

3.551 D1AC, Primary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: ManualReferencing option and SpeedatReferencePosition is not zero. value: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D1AC	53676
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD1AC, Primary MC: SAFETY FEEDBACK Module: 0x%x. SafeUserParameter: ManualReferencing option and SpeedatReferencePosition is not zero. value: %d

3.552 D1AD, Primary MC: SAFETY FEEDBACK Module: 0xXX. Position Referencing is not supported because no Multiturn Feedback detected.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D1AD	53677
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD1AD, Primary MC: SAFETY FEEDBACK Module: 0x%x. Position Referencing is not supported because no Multiturn Feedback detected.*

3.553 D1AE, Primary MC: SAFETY FEEDBACK Module: 0xXX. Shifted Singleturn Position exceeds 32bit. SingleturnPosBits: II PositionShiftBits: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D1AE	53678
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD1AE, Primary MC: SAFETY FEEDBACK Module: 0x%x. Shifted Singleturn Position exceeds 32bit. SingleturnPosBits: %d PositionShiftBits: %d

3.554 D1AF, Primary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: Online change of Referencing mode is not permitted. Current: II New: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D1AF	53679
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD1AF, Primary MC: SAFETY FEEDBACK Module: 0x%x.
SafeUserParameter: Online change of Referencing mode is not permitted. Current: %d New: %d

3.555 D1B0, Primary MC: SAFETY FEEDBACK Module: 0xXX. Manual Referencing requires download of new Safe User Parameter because position range exceeded.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D1B0	53680
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD1B0, Primary MC: SAFETY FEEDBACK Module: 0x%x.
Manual Referencing requires download of new Safe User Parameter because position range exceeded.

**3.556 D280, Secondary MC: SAFETY FEEDBACK Module: 0xXX in State 0xXX.
No Error**

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D280	53888
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD280, Secondary MC: SAFETY FEEDBACK Module:
0x%x in State 0x%x. No Error

3.557 D281, Secondary MC: SAFETY FEEDBACK Module: 0xXX in State 0xXX. No new Position received

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D281	53889
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD281, Secondary MC: SAFETY FEEDBACK Module: 0x%x in State 0x%x. No new Position received

3.558 D282, Secondary MC: SAFETY FEEDBACK Module: 0xXX. Invalid Position. Errorcode: 0xXX Info: 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D282	53890
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD282, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Invalid Position. Errorcode: 0x%x Info: 0x%x

3.559 D283, Secondary MC: SAFETY FEEDBACK Module: 0xXX in State 0xXX. DriveApplication reports Feedback Error 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D283	53891
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD283, Secondary MC: SAFETY FEEDBACK Module: 0x%x in State 0x%x. DriveApplication reports Feedback Error 0x%x

3.560 D284, Secondary MC: SAFETY FEEDBACK Module: 0xXX. Safety OCT Feedback not supported by Hardware

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D284	53892
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD284, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Safety OCT Feedback not supported by Hardware

3.561 D285, Secondary MC: SAFETY FEEDBACK Module: 0xXX. EnDat2.2 Feedback not supported by Hardware

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D285	53893
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD285, Secondary MC: SAFETY FEEDBACK Module: 0x%x. EnDat2.2 Feedback not supported by Hardware

3.562 D286, Secondary MC: SAFETY FEEDBACK Invalid drive application data received. Invalid Command. Module Id: II type: 0xXX Command: 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D286	53894
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD286, Secondary MC: SAFETY FEEDBACK Invalid drive application data received. Invalid Command. Module Id: %d type: 0x%x Command: 0x%x

3.563 D287, Secondary MC: SAFETY FEEDBACK Invalid drive application data received. Invalid Command: 0xXX Module Id: II type: 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D287	53895
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD287, Secondary MC: SAFETY FEEDBACK Invalid drive application data received. Invalid Command: 0x%x Module Id: %d type: 0x%x

3.564 D288, Secondary MC: SAFETY FEEDBACK Module: 0xXX. configured Safety User Parameter CRC (0xXX) did not match with Feedback Parameter CRC

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D288	53896
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD288, Secondary MC: SAFETY FEEDBACK Module: 0x%x. configured Safety User Parameter CRC (0x%x) did not match with Feedback Parameter CRC

3.565 D289, Secondary MC: SAFETY FEEDBACK Module: 0xXX. Module state sync error. local: 0xXX other: 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D289	53897
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD289, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Module state sync error. local: 0x%x other: 0x%x

3.566 D28A, Secondary MC: SAFETY FEEDBACK: FPGA is not validated with this firmware. Elapsed time: II seconds

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D28A	53898
Class	Type
Warning	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD28A, Secondary MC: SAFETY FEEDBACK: FPGA is not validated with this firmware. Elapsed time: %d seconds

3.567 D28B, Secondary MC: SAFETY FEEDBACK Module: 0xXX. Stored Feedback Parameter CRC (0xXX) and Safety User Parameter CRC (0xXX) did not match

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D28B	53899
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD28B, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Stored Feedback Parameter CRC (0x%x) and Safety User Parameter CRC (0x%x) did not match

3.568 D28C, Secondary MC: SAFETY FEEDBACK Module: 0xXX. Encoder Safety User Parameter CRC configured but Drive Application (Slot Configuration) not set

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D28C	53900
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD28C, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Encoder Safety User Parameter CRC configured but Drive Application (Slot Configuration) not set

3.569 D28D, Secondary MC: SAFETY FEEDBACK Module: 0xXX. Cannot enable because module is not configured. State: 0xXX DriveAppl: 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D28D	53901
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD28D, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Cannot enable because module is not configured. State: 0x%x DriveAppl: 0x%x

3.570 D28E, Secondary MC: SAFETY FEEDBACK Module: 0xXX. Double used Parameter CRC (0xXX). Info: 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D28E	53902
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD28E, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Double used Parameter CRC (0x%x). Info: 0x%x

3.571 D28F, Secondary MC: SAFETY FEEDBACK Module: 0xXX. Encoder Voltage not enabled. State: 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D28F	53903
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD28F, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Encoder Voltage not enabled. State: 0x%x

3.572 D290, Secondary MC: SAFETY FEEDBACK Module: 0xXX. Encoder data buffer overrun. State: 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D290	53904
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD290, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Encoder data buffer overrun. State: 0x%x

3.573 D291, Secondary MC: SAFETY FEEDBACK Module: 0xXX. Cannot read Encoder info block. Return Code: 0xXX Info: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D291	53905
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD291, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Cannot read Encoder info block. Return Code: 0x%x Info: %d

3.574 D292, Secondary MC: SAFETY FEEDBACK Invalid drive application data received. Module Id exceeded: II Expected max: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D292	53906
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD292, Secondary MC: SAFETY FEEDBACK Invalid drive application data received. Module Id exceeded: %d Expected max: %d

3.575 D293, Secondary MC: SAFETY FEEDBACK Invalid drive application data received. Data length too long: II Expected max: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D293	53907
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD293, Secondary MC: SAFETY FEEDBACK Invalid drive application data received. Data length too long: %d Expected max: %d

3.576 D294, Secondary MC: SAFETY FEEDBACK Invalid drive application data received. Data length too short: II Expected min: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D294	53908
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD294, Secondary MC: SAFETY FEEDBACK Invalid drive application data received. Data length too short: %d Expected min: %d

3.577 D295, Secondary MC: SAFETY FEEDBACK Module: 0xXX. Invalid drive application data received. Not allowed in this state: II Command: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D295	53909
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD295, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Invalid drive application data received. Not allowed in this state: %d Command: %d

3.578 D296, Secondary MC: SAFETY FEEDBACK Module: 0xXX. Error during position calculation. Info: 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D296	53910
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD296, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Error during position calculation. Info: 0x%x

3.579 D297, Secondary MC: SAFETY FEEDBACK Invalid Safety FPGA interface version. Info: 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D297	53911
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD297, Secondary MC: SAFETY FEEDBACK Invalid Safety FPGA interface version. Info: 0x%x

3.580 D298, Secondary MC: SAFETY FEEDBACK Module: 0xXX. Invalid Safedrive Settings Parameter II. value: 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D298	53912
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD298, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Invalid Safedrive Settings Parameter %d. value: 0x%x

3.581 D299, Secondary MC: SAFETY FEEDBACK Module: 0xXX. Not supported by this firmware. CRC: 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D299	53913
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD299, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Not supported by this firmware. CRC: 0x%x

3.582 D29A, Secondary MC: SAFETY FEEDBACK Module: 0xXX. Safe user parameter position shift value is too large. SingleturnPositionBits: II PositionShiftValue: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D29A	53914
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD29A, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Safe user parameter position shift value is too large. SingleturnPositionBits: %d PositionShiftValue: %d

3.583 D29B, Secondary MC: SAFETY FEEDBACK Module: 0xXX. Motor exchange cannot performed. Stored and current Encoder Parameter mismatch (Subidx: II). Current Encoder Index: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D29B	53915
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD29B, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Motor exchange cannot performed. Stored and current Encoder Parameter mismatch (Subidx: %d). Current Encoder Index: %d

3.584 D29C, Secondary MC: SAFETY FEEDBACK Module: 0xXX. Motor exchange cannot performed because other module II is in fault state with errorcode 0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D29C	53916
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD29C, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Motor exchange cannot performed because other module %d is in fault state with errorcode 0x%x

3.585 D29D, Secondary MC: SAFETY FEEDBACK Module: 0xXX. Motor exchange detected and successfully done.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D29D	53917
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD29D, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Motor exchange detected and successfully done.*

3.586 D29E, Secondary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: EnableForSetReferencingPosition is disabled but reference position is not zero. Ref SingleturnPos: II RefMultiturnPos: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D29E	53918
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD29E, Secondary MC: SAFETY FEEDBACK Module: 0x%x. SafeUserParameter: EnableForSetReferencingPosition is disabled but reference position is not zero. Ref SingleturnPos: %d RefMultiturnPos: %d

3.587 D29F, Secondary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: MinimumReferencePosition (Singleturn:0xXX Multiturn:II) is larger than MaximumReferencePosition

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D29F	53919
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD29F, Secondary MC: SAFETY FEEDBACK Module: 0x%x. SafeUserParameter: MinimumReferencePosition (Singleturn:0x%x Multiturn:%d) is larger than MaximumReferencePosition

3.588 D2A0, Secondary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: ReferenceSafePosition (Singleturn:0xXX Multiturn:II) is too small. Position exceeded minimum Range

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D2A0	53920
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD2A0, Secondary MC: SAFETY FEEDBACK Module: 0x%x. SafeUserParameter: ReferenceSafePosition (Singleturn:0x%x Multiturn:%d) is too small. Position exceeded minimum Range

3.589 D2A1, Secondary MC: SAFETY FEEDBACK SafeUserParameter: Cyclic FRAM data size is not large enough. Allocated size: II Requested size: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D2A1	53921
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD2A1, Secondary MC: SAFETY FEEDBACK SafeUser-Parameter: Cyclic FRAM data size is not large enough. Allocated size: %d Requested size: %d

3.590 D2A2, Secondary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: Difference between minimal and maximal configured position is too large. Difference: Singleturn:0xXX Multiturn:II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D2A2	53922
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD2A2, Secondary MC: SAFETY FEEDBACK Module: 0x%x. SafeUserParameter: Difference between minimal and maximal configured position is too large. Difference: Singleturn:0x%x Multiturn:%d

3.591 D2A3, Secondary MC: SAFETY FEEDBACK Module: 0xXX. Referencing of position in automatic mode is required. No stored position found.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D2A3	53923
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD2A3, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Referencing of position in automatic mode is required. No stored position found.

3.592 D2A4, 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 (Hex.)	Diagnostic Code (Dez.)
D2A4	53924
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD2A4, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Referencing of position cannot be achieved because motor speed is too high. current Speed: %d configured limit: %d

3.593 D2A5, Secondary MC: SAFETY FEEDBACK Module: 0xXX. Position deviation on startup is too large. Difference: Singleturn:0xXX Multiturn:II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D2A5	53925
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD2A5, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Position deviation on startup is too large. Difference: Singleturn:0x%x Multiturn:%d

3.594 D2A6, Secondary MC: SAFETY FEEDBACK Module: 0xXX. Referenced position exceeded configured minimum range. Current position: Singleturn:0xXX Multiturn:II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D2A6	53926
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD2A6, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Referenced position exceeded configured minimum range. Current position: Singleturn:0x%x Multiturn:%d

3.595 D2A7, Secondary MC: SAFETY FEEDBACK Module: 0xXX. Referenced position exceeded configured maximum range. Current position: Singleturn:0xXX Multiturn:II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D2A7	53927
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD2A7, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Referenced position exceeded configured maximum range. Current position: Singleturn:0x%x Multiturn:%d

3.596 D2A8, Secondary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: ReferenceSafePosition (Singleturn:0xXX Multiturn:II) is too large. Position exceeded maximum Range

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D2A8	53928
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD2A8, Secondary MC: SAFETY FEEDBACK Module: 0x%x. SafeUserParameter: ReferenceSafePosition (Singleturn:0x%x Multiturn:%d) is too large. Position exceeded maximum Range

3.597 D2A9, Secondary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: Referencing Optional Parameter size is invaild. Info: 0xXX. 0xXX.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D2A9	53929
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD2A9, Secondary MC: SAFETY FEEDBACK Module: 0x%x. SafeUserParameter: Referencing Optional Parameter size is invaild. Info: 0x%x. 0x%x.

3.598 D2AA, 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 (Hex.)	Diagnostic Code (Dez.)
D2AA	53930
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD2AA, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Invalid feedback configuration. Same encoder type on primary and secondary feedback is not permitted. Other Module: %d type:%d

3.599 D2AB, Secondary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: Invalid referencing operation mode selected: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D2AB	53931
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD2AB, Secondary MC: SAFETY FEEDBACK Module: 0x%x. SafeUserParameter: Invalid referencing operation mode selected: %d

3.600 D2AC, Secondary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: ManualReferencing option and SpeedatReferencePosition is not zero. value: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D2AC	53932
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD2AC, Secondary MC: SAFETY FEEDBACK Module: 0x%x. SafeUserParameter: ManualReferencing option and SpeedatReferencePosition is not zero. value: %d

3.601 D2AD, Secondary MC: SAFETY FEEDBACK Module: 0xXX. Position Referencing is not supported because no Multiturn Feedback detected.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D2AD	53933
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD2AD, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Position Referencing is not supported because no Multiturn Feedback detected.

3.602 D2AE, Secondary MC: SAFETY FEEDBACK Module: 0xXX. Shifted Singleturn Position exceeds 32bit. SingleturnPosBits: II PositionShiftBits: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D2AE	53934
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD2AE, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Shifted Singleturn Position exceeds 32bit. SingleturnPosBits: %d PositionShiftBits: %d

3.603 D2AF, Secondary MC: SAFETY FEEDBACK Module: 0xXX. SafeUserParameter: Online change of Referencing mode is not permitted. Current: II New: II

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D2AF	53935
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD2AF, Secondary MC: SAFETY FEEDBACK Module: 0x%x. SafeUserParameter: Online change of Referencing mode is not permitted. Current: %d New: %d

3.604 D2B0, Secondary MC: SAFETY FEEDBACK Module: 0xXX. Manual Referencing requires download of new Safe User Parameter because position range exceeded.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D2B0	53936
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD2B0, Secondary MC: SAFETY FEEDBACK Module: 0x%x. Manual Referencing requires download of new Safe User Parameter because position range exceeded.

3.605 D300, SafeMotion Axis A Diag Message 1

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D300	54016
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD300, SafeMotion Axis A Diag Message 1*

3.606 D301, SafeMotion Axis A Diag Message 2

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D301	54017
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD301, SafeMotion Axis A Diag Message 2

3.607 D302, SafeMotion Axis A Diag Message 3

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D302	54018
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD302, SafeMotion Axis A Diag Message 3*

3.608 D303, SafeMotion Axis A Diag Message 4

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D303	54019
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD303, SafeMotion Axis A Diag Message 4

3.609 D304, SafeMotion Axis A Diag Message 5

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D304	54020
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD304, SafeMotion Axis A Diag Message 5*

3.610 D305, SafeMotion Axis A Diag Message 6

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D305	54021
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD305, SafeMotion Axis A Diag Message 6

3.611 D306, SafeMotion Axis A Diag Message 7

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D306	54022
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD306, SafeMotion Axis A Diag Message 7*

3.612 D307, SafeMotion Axis A Diag Message 8

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D307	54023
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD307, SafeMotion Axis A Diag Message 8

3.613 D308, SafeMotion Axis A Diag Message 9

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D308	54024
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD308, SafeMotion Axis A Diag Message 9*

3.614 D309, SafeMotion Axis A Diag Message 10

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D309	54025
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD309, SafeMotion Axis A Diag Message 10

3.615 D30A, SafeMotion Axis A Diag Message 11

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D30A	54026
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD30A, SafeMotion Axis A Diag Message 11*

3.616 D30B, SafeMotion Axis A Diag Message 12

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D30B	54027
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD30B, SafeMotion Axis A Diag Message 12

3.617 D30C, SafeMotion Axis A Diag Message 13

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D30C	54028
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD30C, SafeMotion Axis A Diag Message 13*

3.618 D30D, SafeMotion Axis A Diag Message 14

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D30D	54029
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD30D, SafeMotion Axis A Diag Message 14*

3.619 D30E, SafeMotion Axis A Diag Message 15

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D30E	54030
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD30E, SafeMotion Axis A Diag Message 15*

3.620 D30F, SafeMotion Axis A Diag Message 16

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D30F	54031
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD30F, SafeMotion Axis A Diag Message 16*

3.621 D310, SafeMotion Axis B Diag Message 1

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D310	54032
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD310, SafeMotion Axis B Diag Message 1*

3.622 D311, SafeMotion Axis B Diag Message 2

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D311	54033
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD311, SafeMotion Axis B Diag Message 2

3.623 D312, SafeMotion Axis B Diag Message 3

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D312	54034
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD312, SafeMotion Axis B Diag Message 3*

3.624 D313, SafeMotion Axis B Diag Message 4

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D313	54035
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD313, SafeMotion Axis B Diag Message 4

3.625 D314, SafeMotion Axis B Diag Message 5

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D314	54036
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD314, SafeMotion Axis B Diag Message 5*

3.626 D315, SafeMotion Axis B Diag Message 6

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D315	54037
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD315, SafeMotion Axis B Diag Message 6*

3.627 D316, SafeMotion Axis B Diag Message 7

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D316	54038
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD316, SafeMotion Axis B Diag Message 7*

3.628 D317, SafeMotion Axis B Diag Message 8

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D317	54039
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD317, SafeMotion Axis B Diag Message 8*

3.629 D318, SafeMotion Axis B Diag Message 9

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D318	54040
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD318, SafeMotion Axis B Diag Message 9*

3.630 D319, SafeMotion Axis B Diag Message 10

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D319	54041
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD319, SafeMotion Axis B Diag Message 10

3.631 D31A, SafeMotion Axis B Diag Message 11

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D31A	54042
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD31A, SafeMotion Axis B Diag Message 11*

3.632 D31B, SafeMotion Axis B Diag Message 12

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D31B	54043
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: 0xD31B, SafeMotion Axis B Diag Message 12

3.633 D31C, SafeMotion Axis B Diag Message 13

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D31C	54044
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD31C, SafeMotion Axis B Diag Message 13*

3.634 D31D, SafeMotion Axis B Diag Message 14

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D31D	54045
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD31D, SafeMotion Axis B Diag Message 14*

3.635 D31E, SafeMotion Axis B Diag Message 15

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D31E	54046
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD31E, SafeMotion Axis B Diag Message 15*

3.636 D31F, SafeMotion Axis B Diag Message 16

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D31F	54047
Class	Type
Info	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD31F, SafeMotion Axis B Diag Message 16*

3.637 D320, The Safety Control Task watchdog has bveen expired

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
D320	54048
Class	Type
Error	Safety Module error
Standard Reaction	Reset
No	A reset is not possible. The drive detected a fatal hard- or software error.

Internal: *0xD320, The Safety Control Task watchdog has bveen expired*

4 Diagmessages of DeviceDebugSlot

4.1 FFFF, Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FFFF	65535
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xFFFF, Internal Error, Additional Errorcode 0x%x

5 Diagmessages of AxisMainSlot

5.1 0000, No Error

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

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0000	0
Class	Type
Info	Information
Standard Reaction	Reset
No	Information: No reset required.
Possible Causes	Solutions
An Axis entered the error free state.	

Internal: 0x0000, No Error

5.2 2340, Short circuit (motor-side)

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

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2340	9024
Class	Type
Error	Overcurrent error
Standard Reaction	Reset
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 an high voltage test or check the winding resistance.

Internal: 0x2340, Short circuit (motor-side)

5.3 2380, Continuous over current (device output side) Phase U

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

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2380	9088
Class	Type
Error	Overcurrent error
Standard Reaction	Reset
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 an high voltage test or check the winding resistance.

Internal: *0x2380, Continuous over current (device output side) Phase U*

5.4 2381, Continuous over current (device output side) Phase V

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

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2381	9089
Class	Type
Error	Overcurrent error
Standard Reaction	Reset
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 an high voltage test or check the winding resistance.

Internal: 0x2381, Continuous over current (device output side)
Phase V

5.5 2382, Continuous over current (device output side) Phase W

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

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2382	9090
Class	Type
Error	Overcurrent error
Standard Reaction	Reset
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 an high voltage test or check the winding resistance.

Internal: 0x2382, Continuous over current (device output side)
Phase W

5.6 2383, Phase U current offset out of range

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

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2383	9091
Class	Type
Error	Error
Standard Reaction	Reset
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 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.

Internal: 0x2383, Phase U current offset out of range

5.7 2384, Phase V current offset out of range

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

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2384	9092
Class	Type
Error	Error
Standard Reaction	Reset
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 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.

Internal: 0x2384, Phase V current offset out of range

5.8 2385, Phase W current offset out of range

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

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2385	9093
Class	Type
Error	Error
Standard Reaction	Reset
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 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.

Internal: 0x2385, Phase W current offset out of range

5.9 2386, Motor brake current offset out of range

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

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2386	9094
Class	Type
Error	Error
Standard Reaction	Reset
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 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 device might be influenced by an external magnetic field.	Check the environment of this device for magnetic components.

Internal: 0x2386, Motor brake current offset out of range

5.10 3180, Phase failure motor

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

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3180	12672
Class	Type
Error	Motor connection error
Standard Reaction	Reset
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.

Internal: 0x3180, Phase failure motor

5.11 3220, DC link under-voltage

An under-voltage occurred in the DC link circuit.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3220	12832
Class	Type
Error	Undervoltage error
Standard Reaction	Reset
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)

Internal: 0x3220, DC link under-voltage

5.12 3280, DC link is not ready

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3280	12928
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x3280, DC link is not ready

5.13 4310, Drive overtemperature shut down

The drive temperature has reached a critical value.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
4310	17168
Class	Type
Error	Drive overtemperature shut down
Standard Reaction	Reset
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

Internal: 0x4310, Drive overtemperature shut down

5.14 5180, 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 (Hex.)	Diagnostic Code (Dez.)
5180	20864
Class	Type
Error	Safety STO error
Standard Reaction	Reset
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.

Internal: *0x5180, Output stage STO active.*

5.15 5184, Supply DC link circuit is not ready

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5184	20868
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x5184, Supply DC link circuit is not ready

5.16 5187, Power supply communication is not established

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5187	20871
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x5187, Power supply communication is not established

5.17 5441, Positive limit switch active

Positive limit switch reached

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5441	21569
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x5441, Positive limit switch active

5.18 5442, Negative limit switch active

Negative limit switch reached

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5442	21570
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x5442, Negative limit switch active

5.19 5443, Loss of the hardware enable

The configured hardware enable input has been deactivated by an external event, even though the AX8000 was under control.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5443	21571
Class	Type
Error	Error
Standard Reaction	Reset
Closed loop ramp	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
Problems with the digital inputs	Check the digital inputs

Internal: 0x5443, Loss of the hardware enable

5.20 5444, Loss of the hardware enable (Reaction TorqueOff)

The configured hardware enable input has been deactivated by an external event, even though the AX8000 was under control.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5444	21572
Class	Type
Error	Error
Standard Reaction	Reset
Torque off	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
Problems with the digital inputs	Check the digital inputs

Internal: 0x5444, Loss of the hardware enable (Reaction TorqueOff)

5.21 5445, Fast stop switch active

Positive limit switch reached

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5445	21573
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x5445, Fast stop switch active

5.22 54B1, Positive limit switch active

Positive limit switch reached

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
54B1	21681
Class	Type
Warning	Warning
Standard Reaction	Reset
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.

Internal: 0x54B1, Positive limit switch active

5.23 54B2, Negative limit switch active

Negative limit switch reached

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
54B2	21682
Class	Type
Warning	Warning
Standard Reaction	Reset
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.

Internal: 0x54B2, Negative limit switch active

5.24 54B3, Fast stop switch active

Positive limit switch reached

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
54B3	21683
Class	Type
Warning	Warning
Standard Reaction	Reset
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.

Internal: *0x54B3, Fast stop switch active*

5.25 5595, Modulo remainder will not be stored.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5595	21909
Class	Type
Warning	Warning
Standard Reaction	Reset
No	Warning: No reset required.
Possible Causes	Solutions
Persistent memory is not present.	

Internal: 0x5595, Modulo remainder will not be stored.

5.26 589C, Persistent Data Error

The content of the persistent data memory seems to be corrupted.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
589C	22684
Class	Type
Error	Error
Standard Reaction	Reset
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 AX8000 to the Beckhoff branch office that is responsible for you.

Internal: 0x589C, Persistent data seems to be corrupted. (0x%x)

5.27 589E, Persistent data memory error. Primary position offset.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
589E	22686
Class	Type
Error	Error
Standard Reaction	Reset
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 AX8000 to the Beckhoff branch office that is responsible for you.

Internal: 0x589E, Persistent data memory error. Primary position offset.

5.28 589F, Persistent data memory error. Secondary position offset.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
589F	22687
Class	Type
Error	Error
Standard Reaction	Reset
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 AX8000 to the Beckhoff branch office that is responsible for you.

Internal: *0x589F, Persistent data memory error. Secondary position offset.*

5.29 58A0, Persistent data memory error. Modulo remainder.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
58A0	22688
Class	Type
Error	Error
Standard Reaction	Reset
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 AX8000 to the Beckhoff branch office that is responsible for you.

Internal: 0x58A0, Persistent data memory error. Modulo remainder.

5.30 6183, Internal Watchdog Error

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6183	24963
Class	Type
Error	Error
Standard Reaction	Reset
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 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.

Internal: 0x6183, Internal Watchdog Error

5.31 638A, The Axis seems not to be parameterized.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
638A	25482
Class	Type
Error	Error
Standard Reaction	Reset
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'.

Internal: 0x638A, The Axis seems not to be parameterized.

5.32 6390, Factor Group Parameters: Feed constant illegal feed

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

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6390	25488
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x6390, Factor Group Parameters: Feed constant illegal feed

5.33 6391, Factor Group Parameters: Feed constant illegal shaft revolutions

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

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6391	25489
Class	Type
Error	Error
Standard Reaction	Reset
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'.

Internal: 0x6391, Factor Group Parameters: Feed constant illegal shaft revolutions

5.34 6392, 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 (Hex.)	Diagnostic Code (Dez.)
6392	25490
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x6392, Factor Group Parameters: Gear ratio illegal Motor shaft revolutions

5.35 6393, 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 (Hex.)	Diagnostic Code (Dez.)
6393	25491
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x6393, Factor Group Parameters: Gear ratio illegal Driving shaft revolutions

5.36 6394, 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 (Hex.)	Diagnostic Code (Dez.)
6394	25492
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x6394, Factor Group Parameters: Position encoder resolution illegal encoder increments

5.37 6395, 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 (Hex.)	Diagnostic Code (Dez.)
6395	25493
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x6395, Factor Group Parameters: Position encoder resolution illegal motor revolutions

5.38 6396, additional Factor Group Parameters: Feed constant illegal feed

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

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6396	25494
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x6396, additional Factor Group Parameters: Feed constant illegal feed

5.39 6397, 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 (Hex.)	Diagnostic Code (Dez.)
6397	25495
Class	Type
Error	Error
Standard Reaction	Reset
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'.

Internal: 0x6397, additional Factor Group Parameters: Feed constant illegal shaft revolutions

5.40 6398, 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 (Hex.)	Diagnostic Code (Dez.)
6398	25496
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x6398, additional Factor Group Parameters: Gear ratio illegal Motor shaft revolutions

5.41 6399, 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 (Hex.)	Diagnostic Code (Dez.)
6399	25497
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x6399, additional Factor Group Parameters: Gear ratio illegal Driving shaft revolutions

5.42 639A, 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 (Hex.)	Diagnostic Code (Dez.)
639A	25498
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x639A, additional Factor Group Parameters: Position encoder resolution illegal encoder increments

5.43 639B, 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 (Hex.)	Diagnostic Code (Dez.)
639B	25499
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: *0x639B, additional Factor Group Parameters: Position encoder resolution illegal motor revolutions*

5.44 639C, 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 (Hex.)	Diagnostic Code (Dez.)
639C	25500
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x639C, Velocity factor illegal. A possible Value would be %u/%u.

5.45 639D, 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 (Hex.)	Diagnostic Code (Dez.)
639D	25501
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x639D, Acceleration factor illegal. A possible Value would be %u/%u.

5.46 639E, 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 (Hex.)	Diagnostic Code (Dez.)
639E	25502
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: *0x639E, Scaling index object 0x%x does not fit the Factor group parameters for the first Encoder*

5.47 639F, 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 (Hex.)	Diagnostic Code (Dez.)
639F	25503
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: *0x639F, Scaling index object 0x%x does not fit the Factor group parameters for the second Encoder*

5.48 63A0, Motor or Primary Feedback changed

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
63A0	25504
Class	Type
Error	Error
Standard Reaction	Reset
Axis is inoperable	Execute Extended Reset-Command (Fault reset with 'Unlock extended fault reset' Parameter).

Internal: 0x63A0, Motor or Primary Feedback changed

5.49 63A1, Secondary Feedback changed

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
63A1	25505
Class	Type
Error	Error
Standard Reaction	Reset
Axis is inoperable	Execute Extended Reset-Command (Fault reset with 'Unlock extended fault reset' Parameter).

Internal: 0x63A1, Secondary Feedback changed

5.50 63A2, 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 (Hex.)	Diagnostic Code (Dez.)
63A2	25506
Class	Type
Error	Error
Standard Reaction	Reset
Axis is inoperable	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
A position offset should used in the position control loop, but no position offset has been saved.	Calibrate the axis and save the new position offset.

Internal: 0x63A2, Offset position actual value: No position offset existing in source 'encoder memory'

5.51 63A3, 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 (Hex.)	Diagnostic Code (Dez.)
63A3	25507
Class	Type
Error	Error
Standard Reaction	Reset
Axis is inoperable	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
A position offset should used in the position control loop, but no position offset has been saved.	Calibrate the axis and save the new position offset.

Internal: 0x63A3, Offset additional position actual value: No position offset existing in source 'encoder memory'

5.52 63A4, 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 (Hex.)	Diagnostic Code (Dez.)
63A4	25508
Class	Type
Error	Error
Standard Reaction	Reset
Axis is inoperable	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
A position offset should used in the position control loop, but no position offset has been saved.	Calibrate the axis and save the new position offset.

Internal: 0x63A4, Offset position actual value: No position offset existing in source 'drive memory'

5.53 63A5, 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 (Hex.)	Diagnostic Code (Dez.)
63A5	25509
Class	Type
Error	Error
Standard Reaction	Reset
Axis is inoperable	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
A position offset should used in the position control loop, but no position offset has been saved.	Calibrate the axis and save the new position offset.

Internal: 0x63A5, Offset additional position actual value: No position offset existing in source 'drive memory'

5.54 63A6, 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 (Hex.)	Diagnostic Code (Dez.)
63A6	25510
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x63A6, Jerk factor illegal. A possible Value would be %u/%u.

5.55 63A7, 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 (Hex.)	Diagnostic Code (Dez.)
63A7	25511
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x63A7, The range %u of the Position range limit is below the minimum accepted value of %u.

5.56 63A8, 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 (Hex.)	Diagnostic Code (Dez.)
63A8	25512
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x63A8, Position range limit Inc with remainder is not supported for primary feedback.

5.57 63A9, 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 (Hex.)	Diagnostic Code (Dez.)
63A9	25513
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x63A9, Position range limit Inc with remainder is not supported for secondary feedback.

5.58 63AA, Object 0xXX/XX changed in EtherCAT SafeOP or OP.

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

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
63AA	25514
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: *0x63AA, Object 0x%X/%X changed in EtherCAT SafeOP or OP.*

5.59 63AB, 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 (Hex.)	Diagnostic Code (Dez.)
63AB	25515
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x63AB, Offset position actual value: Found an internal encoder position offset. No other offset can be selected.

5.60 63AC, 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 (Hex.)	Diagnostic Code (Dez.)
63AC	25516
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x63AC, Offset additional position actual value: Found an internal encoder position offset. No other offset can be selected.

5.61 63AE, Modulo calculation primary feedback: No saved data could be loaded

Modulo calculation primary feedback: No saved data could be loaded

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
63AE	25518
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x63AE, Modulo calculation primary feedback: No saved data could be loaded

5.62 63AF, 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 (Hex.)	Diagnostic Code (Dez.)
63AF	25519
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x63AF, Modulo calculation primary feedback: No saved data could be loaded. Remainder Changed.

5.63 63B7, 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 (Hex.)	Diagnostic Code (Dez.)
63B7	25527
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x63B7, Modulo calculation primary feedback: The absolute range of encoder is too small or incompatible

5.64 7180, Motor brake: Current monitoring error.

The motor brake current monitoring detected an insufficient current.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7180	29056
Class	Type
Error	Motor Brake connection error
Standard Reaction	Reset
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).

Internal: 0x7180, Motor brake: Current monitoring error.

5.65 7380, Current sensor motor phase U

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7380	29568
Class	Type
Error	Error
Standard Reaction	Reset
Open 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.

Internal: 0x7380, Current sensor motor phase U

5.66 7381, Current sensor motor phase V

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7381	29569
Class	Type
Error	Error
Standard Reaction	Reset
Open 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.

Internal: 0x7381, Current sensor motor phase V

5.67 7382, Current sensor motor phase W

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7382	29570
Class	Type
Error	Error
Standard Reaction	Reset
Open 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.

Internal: 0x7382, Current sensor motor phase W

5.68 7398, Physical position sensor required

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7398	29592
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x7398, *Physical position sensor required*

5.69 7399, Simulation feedback module required

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7399	29593
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x7399, Simulation feedback module required

5.70 8182, EtherCAT Statemachine shutdown with enabled Axis

The EtherCAT Statemachine received a shutdown command, while the Axis was enabled.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8182	33154
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x8182, EtherCAT Statemachine shutdown with enabled Axis

5.71 8183, 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 (Hex.)	Diagnostic Code (Dez.)
8183	33155
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: *0x8183, Controlword output cycle counter monitoring*

5.72 8184, 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 (Hex.)	Diagnostic Code (Dez.)
8184	33156
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: *0x8184, Dynoutput cycle counter monitoring*

5.73 8185, Axis needs an extended fault reset command

The Axis received a fault reset command but needs an extended fault reset command

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8185	33157
Class	Type
Error	Error
Standard Reaction	Reset
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

Internal: *0x8185, Axis needs an extended fault reset command*

5.74 8187, PWM carrier signal PLL not locked to EtherCAT DC SYNC0

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8187	33159
Class	Type
Error	Error
Standard Reaction	Reset
Closed loop ramp	Execute Reset-Command (Fault reset).

Internal: 0x8187, PWM carrier signal PLL not locked to EtherCAT DC SYNC0

5.75 8190, 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 (Hex.)	Diagnostic Code (Dez.)
8190	33168
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x8190, Axis fault reset command is not possible - internal hardware error

5.76 8191, 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 (Hex.)	Diagnostic Code (Dez.)
8191	33169
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: *0x8191, Axis fault reset command is not possible because at least one of the present errors cannot be reset.*

5.77 8690, Autotuning command: Out of position range

Permissible movement exceeded.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8690	34448
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x8690, Autotuning command: Out of position range

5.78 8691, 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 (Hex.)	Diagnostic Code (Dez.)
8691	34449
Class	Type
Error	Error
Standard Reaction	Reset
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

Internal: 0x8691, Advanced Tuning command: Excitation signal amplitude to high

5.79 8A80, Illegal Modes Of Operation

The modes of operation was set to an illegal value.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8A80	35456
Class	Type
Error	Error
Standard Reaction	Reset
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).

Internal: 0x8A80, Illegal Modes Of Operation

5.80 8A81, Illegal Modes Of Operation change

The modes of operation was changed in an illegal transition while the axis was enabled.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8A81	35457
Class	Type
Error	Error
Standard Reaction	Reset
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).

Internal: 0x8A81, Illegal Modes Of Operation change

5.81 8A82, 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 (Hex.)	Diagnostic Code (Dez.)
8A82	35458
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x8A82, Error reaction "NC Handling" had a timeout

5.82 A017, Pdo Mapping Error: Object has to be mapped always.

The Object has to be mapped always.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
A017	40983
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xA017, Pdo Mapping Error: Object 0x%x/%x has to be mapped always.

5.83 FF01, Init Timeout

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FF01	65281
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: *0xFF01, Init Timeout*

5.84 FF07, 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 (Hex.)	Diagnostic Code (Dez.)
FF07	65287
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xFF07, Error reaction forced: Torque Off

5.85 FF08, 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 (Hex.)	Diagnostic Code (Dez.)
FF08	65288
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xFF08, Error reaction forced: Shorted Coils Brake

5.86 FF09, 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 (Hex.)	Diagnostic Code (Dez.)
FF09	65289
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xFF09, Error reaction forced: Open Loop Ramp

5.87 FF0A, 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 (Hex.)	Diagnostic Code (Dez.)
FF0A	65290
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xFF0A, Error reaction forced: Closed Loop Ramp

5.88 FF0B, 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 (Hex.)	Diagnostic Code (Dez.)
FF0B	65291
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xFF0B, Error reaction forced: NC handling

5.89 FF0C, Error reaction TorqueOff with emergency brake

The Axis performed a torque off Errorreaction with an emergency brake.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FF0C	65292
Class	Type
Info	TorqueOff with emergency brake
Standard Reaction	Reset
No	Information: No reset required.

Internal: 0xFF0C, Error reaction TorqueOff with emergency brake

5.90 FF0D, Propagated error received, react with Torque Off.

Propagated error received, react with Torque Off

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FF0D	65293
Class	Type
Error	Error
Standard Reaction	Reset
Torque off	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
A propagated error was received.	Check the sending axis.

Internal: 0xFF0D, Propagated error received, react with Torque Off.

5.91 FF0E, Propagated error received, react with Shorted Coils Brake.

Propagated error received, react with Shorted Coils Brake.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FF0E	65294
Class	Type
Error	Error
Standard Reaction	Reset
Shorted coils brake	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
A propagated error was received.	Check the sending axis.

Internal: *0xFF0E, Propagated error received, react with Shorted Coils Brake.*

5.92 FF0F, Propagated error received, react with Closed Loop Ramp.

Propagated error received, react with Shorted Coils Brake.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FF0F	65295
Class	Type
Error	Error
Standard Reaction	Reset
Closed loop ramp	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
A propagated error was received.	Check the sending axis.

Internal: 0xFF0F, Propagated error received, react with Closed Loop Ramp.

5.93 FF10, Propagated error received, react with NC handling.

Propagated error received, react with Shorted Coils Brake.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FF10	65296
Class	Type
Error	Error
Standard Reaction	Reset
Nc handling	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
A propagated error was received.	Check the sending axis.

Internal: 0xFF10, Propagated error received, react with NC handling.

5.94 FF11, Error reaction shorted coils brake with emergency brake

The Axis performed a "Shorted coils brake" Errorreaction with an emergency brake.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FF11	65297
Class	Type
Info	TorqueOff with emergency brake
Standard Reaction	Reset
No	Information: No reset required.

Internal: *0xFF11, Error reaction shorted coils brake with emergency brake*

5.95 FF12, Error reaction TorqueOff Timeout

The Axis performed a torque off Errorreaction with an emergency brake.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FF12	65298
Class	Type
Error	TorqueOff with emergency brake
Standard Reaction	Reset
Torque off	Execute Reset-Command (Fault reset).

Internal: *0xFF12, Error reaction TorqueOff Timeout*

5.96 FFFF, Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FFFF	65535
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xFFFF, Internal Error, Additional Errorcode 0x%x

6 Diagmessages of InterpolatorSlot

6.1 6320, Parameter error in Object 0xXX/XX

The mentioned parameter contains a not accepted value.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6320	25376
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x6320, Parameter error in Object 0x%x/%x

6.2 6386, Parameter Interpolator: Illegal NC-Task cycle time

Parameter Interpolator: To low NC-Task cycle time for this interpolation sub mode select. The feed forward control may not work as expected.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6386	25478
Class	Type
Warning	Warning
Standard Reaction	Reset
No	Warning: No reset required.
Possible Causes	Solutions
Parameter Interpolator: To low NC-Task cycle time for this interpolation sub mode select.	Adjust NC-Task cycle time.

Internal: 0x6386, Parameter Interpolator: Illegal NC-Task cycle time

6.3 8188, Process data synchronization lost

The process data synchronization is not available any more.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8188	33160
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x8188, Process data synchronization lost

6.4 8680, Position Demand Value outside of the specified Position Range Limits

Position Demand Value outside of the specified Position Range Limits

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8680	34432
Class	Type
Error	Error
Standard Reaction	Reset
Closed loop ramp	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
Parameter Interpolator: To low NC-Task cycle time for this interpolation sub mode select.	Adjust NC-Task cycle time.

Internal: 0x8680, Position Demand Value outside of the specified Position Range Limits

6.5 A01A, 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 (Hex.)	Diagnostic Code (Dez.)
A01A	40986
Class	Type
Error	Error
Standard Reaction	Reset
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

Internal: 0xA01A, TxPdo Mapping Error: Object 0x%x/%x has to be mapped for modes of operation %d.

6.6 FFFF, Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FFFF	65535
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xFFFF, Internal Error, Additional Errorcode 0x%x

7 Diagmessages of PositionControlSlot

7.1 8611, Following error

The servo drive has detected a following error.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8611	34321
Class	Type
Error	Error
Standard Reaction	Reset
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 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.

Internal: 0x8611, Following error

7.2 FFFF, Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FFFF	65535
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xFFFF, Internal Error, Additional Errorcode 0x%x

8 Diagmessages of VelocityControlSlot

8.1 3183, 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 (Hex.)	Diagnostic Code (Dez.)
3183	12675
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x3183, The bipolar velocity limit is higher than 1/4 of position range limit per EtherCAT Sync1 cycle.

8.2 7186, Detected moving axis on enable transition.

The Axis was moving in the disabled State and was now stopped during the enable transition.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7186	29062
Class	Type
Error	Error
Standard Reaction	Reset
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)

Internal: 0x7186, Detected moving axis on enable transition.

8.3 8480, Overspeed error

The speed of the axis is higher than the parameterized maximum value in the Velocity error tolerance Object

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8480	33920
Class	Type
Error	Overspeed error
Standard Reaction	Reset
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.

Internal: 0x8480, Overspeed error

8.4 8481, Error reaction "Closed loop ramp" had a timeout

A closed loop error reaction was aborted because of a timeout.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8481	33921
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x8481, Error reaction "Closed loop ramp" had a timeout

8.5 8482, The maximum accepted collision torque is exceeded.

The maximum accepted collision torque is exceeded.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8482	33922
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x8482, The maximum accepted collision torque is exceeded.

8.6 8483, Gain scheduling data invalid.

The gain scheduling data is invalid.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
8483	33923
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x8483, Gain scheduling data invalid.

8.7 FFFF, Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FFFF	65535
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xFFFF, Internal Error, Additional Errorcode 0x%x

9 Diagmessages of BiquadFilterSlot

9.1 6320, Parameter error in object 0xXX/XX

The mentioned parameter contains a not accepted value.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6320	25376
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x6320, Parameter error in object 0x%x/%x

9.2 63AB, The filter parameterization is not valid

The parameterization of the filter is not valid

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
63AB	25515
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x63AB, The filter parameterization is not valid

9.3 FFFF, Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FFFF	65535
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xFFFF, Internal Error, Additional Errorcode 0x%x

10 Diagmessages of TorqueControlSlot

10.1 2330, Earth leakage (motor-side)

The luvw sum Monitoring detected an Error.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2330	9008
Class	Type
Error	Motor connection error
Standard Reaction	Reset
Closed loop ramp	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
luvw sum (0x3242/14) raised above the parameter luvw sum max (0x3243/07)	Please check the Motor connection and validate the parameter value.

Internal: 0x2330, Earth leakage (motor-side)

10.2 2390, Amplifier overload utilization

The parametrized utilization limit has been reached.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2390	9104
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x2390, Amplifier overload utilization

10.3 3181, 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 (Hex.)	Diagnostic Code (Dez.)
3181	12673
Class	Type
Error	Overspeed error
Standard Reaction	Reset
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.

Internal: 0x3181, Phase frequency (motor-side) raised above 600 Hz

10.4 3182, Velocity actual Value raised above the max channel accepted velocity

Velocity actual Value raised above the max channel accepted velocity

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3182	12674
Class	Type
Error	Overspeed error
Standard Reaction	Reset
Nc handling	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
Velocity actual Value raised above the max channel accepted velocity	Reduce your target velocity.

Internal: 0x3182, Velocity actual Value raised above the max channel accepted velocity

10.5 6320, Parameter error in object 0xXX/XX

The mentioned parameter contains a not accepted value.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6320	25376
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x6320, Parameter error in object 0x%x/%x

10.6 6388, 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 (Hex.)	Diagnostic Code (Dez.)
6388	25480
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x6388, Parameter Torque Control: The value in object 0x%x/%x is higher than the motor peak current (0x%x/%x).

10.7 6389, 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 (Hex.)	Diagnostic Code (Dez.)
6389	25481
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x6389, Parameter Torque Control: The value in object 0x%x/%x is higher than the configured peak current (0x%x/%x).

10.8 638F, 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 (Hex.)	Diagnostic Code (Dez.)
638F	25487
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x638F, Parameter Torque Control: The value in Object 0x%x/%x is higher than the Motor maximum voltage slope (0x%x/%x).

10.9 63AD, Motor torque/ force characteristic is not valid for internal calculation.

Motor torque/ force characteristic is not valid for internal calculation.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
63AD	25517
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x63AD, Motor torque/ force characteristic is not valid for internal calculation.

10.10 63B6, Parameter Torque Control: Invalid device total output current sum

The device total output current sum is too high. (Sum of all axes.)

Diagnostic Code (Hex.)	Diagnostic Code (Dec.)
63B6	25526
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x63B6, Parameter Torque Control: Invalid device total output current sum

10.11 FFFF, Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FFFF	65535
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xFFFF, Internal Error, Additional Errorcode 0x%x

11 Diagmessages of FeedbackSlot

11.1 7320, 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 (Hex.)	Diagnostic Code (Dez.)
7320	29472
Class	Type
Error	Feedback error
Standard Reaction	Reset
Open loop ramp	Execute Reset-Command (Fault reset).
Possible Causes	Solutions

Internal: 0x7320, HpfdSl: Encoder error (position invalid), Id=0x%X, Arg=0x%X

11.2 7380, 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)

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7380	29568
Class	Type
Error	Feedback error
Standard Reaction	Reset
Axis is inoperable	Execute Reset-Command (Fault reset).

Internal: 0x7380, HpfDsl: Encoder start sequence failed, Id=0x%X, Arg=0x%X

11.3 7381, 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 (Hex.)	Diagnostic Code (Dez.)
7381	29569
Class	Type
Error	Feedback error
Standard Reaction	Reset
Axis is inoperable	Execute Reset-Command (Fault reset).

Internal: 0x7381, HpfDsl: Encoder shutdown failed, Id=0x%X, Arg=0x%X

11.4 7382, HpfdSl: Parameter access error, Id=0xXX, Cmd=II, RID=0xXX, Offset=II, Len=II, LongMsgErrorCode=0xXX

Encoder paramteter 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 (Hex.)	Diagnostic Code (Dez.)
7382	29570
Class	Type
Error	Feedback error
Standard Reaction	Reset
Nc handling	Execute Reset-Command (Fault reset).

Internal: 0x7382, HpfdSl: Parameter access error, Id=0x%X, Cmd=%d, RID=0x%X, Offset=%d, Len=%d, LongMsgErrorCode=0x%X

11.5 7383, HpfDsl: Internal error, Id=0xXX, Arg=0xXX

Internal version check failed:

- Id=0x1: Invalid IpCore register layout
- Id=0x2: Invalid IpCore version
- Id=0x3: No line error counter available.
- Id=0x4: No Safety-IpCore

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7383	29571
Class	Type
Error	Feedback error
Standard Reaction	Reset
Axis is inoperable	Execute Reset-Command (Fault reset).

Internal: 0x7383, HpfDsl: Internal error, Id=0x%X, Arg=0x%X

11.6 7384, 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 (Hex.)	Diagnostic Code (Dez.)
7384	29572
Class	Type
Error	Feedback error
Standard Reaction	Reset
Nc handling	Execute Reset-Command (Fault reset).

Internal: 0x7384, HpfDsl: Cyclic monitoring error, Id=0x%X, Arg=0x%X

11.7 7385, 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 (Hex.)	Diagnostic Code (Dez.)
7385	29573
Class	Type
Warning	Warning
Standard Reaction	Reset
No	Warning: No reset required.

Internal: 0x7385, HpfdSl: Encoder file processing, Id=0x%X, WarnArg=0x%X

11.8 7386, HpfDsl: Found no encoder (No link to an encoder)!

The HpfDSL master indicates no communication link to an encoder (motor feedback system).

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7386	29574
Class	Type
Error	Feedback error
Standard Reaction	Reset
Axis is inoperable	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
No physical encoder connection.	Check and fix the encoder connection.

Internal: 0x7386, HpfDsl: Found no encoder (No link to an encoder)!

11.9 7387, 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 (Hex.)	Diagnostic Code (Dez.)
7387	29575
Class	Type
Error	Feedback error
Standard Reaction	Reset
Axis is inoperable	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
No physical encoder connection.	Check and fix the encoder connection.

Internal: 0x7387, HpfDsl: The encoder doesn't meet the specified policies. Resolutionpolicy=%d [Encoder=%d, Requirement=%d], Rangepolicy=%d [Encoder=%d, Requirement=%d]

11.10 7388, HpFDsl: Encoder power off (triggered from SafeCu), Id=0xXX, Arg=0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7388	29576
Class	Type
Error	Feedback error
Standard Reaction	Reset
Shorted coils brake	Execute Reset-Command (Fault reset).

Internal: 0x7388, HpFDsl: Encoder power off (triggered from SafeCu), Id=0x%X, Arg=0x%X

11.11 7389, HpFDsl: Encoder interface resistance check failed. Measured resistance is too low! R=II Ohm

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7389	29577
Class	Type
Error	Feedback error
Standard Reaction	Reset
Shorted coils brake	Execute Reset-Command (Fault reset).

Internal: 0x7389, HpFDsl: Encoder interface resistance check failed.
Measured resistance is too low! R=%d Ohm

11.12 738A, Loaded fpga is not verified.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
738A	29578
Class	Type
Warning	Warning
Standard Reaction	Reset
No	Warning: No reset required.
Possible Causes	Solutions
The loaded fpga is not 'Safe-Motion' verified.	Use a release firmware version.

Internal: 0x738A, HpFDsl: Found no verification code for the loaded fpga.

11.13 738B, HpfDsl: Internal warning! The error inducer is available.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
738B	29579
Class	Type
Warning	Warning
Standard Reaction	Reset
No	Warning: No reset required.

Internal: *0x738B, HpfDsl: Internal warning! The error inducer is available.*

11.14 738C, 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 (Hex.)	Diagnostic Code (Dez.)
738C	29580
Class	Type
Error	Feedback error
Standard Reaction	Reset
Closed loop ramp	Execute Reset-Command (Fault reset).

Internal: 0x738C, HpfDsl: Encoder seems to be offline for %u cycles. (InternalDbg: %u)

11.15 738D, HpfDsl: Invalid encoder parameter, see SubIdx UU

The CoE encoder parameter (SubIdx xxx) is invalid.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
738D	29581
Class	Type
Error	Feedback error
Standard Reaction	Reset
Axis is inoperable	Execute Reset-Command (Fault reset).

Internal: 0x738D, HpfDsl: Invalid encoder parameter, see SubIdx %u

11.16 738E, HpfDsl: Encoder file processing error, FileId=0xXX, Arg=0xXX

An error ocured 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 (Hex.)	Diagnostic Code (Dez.)
738E	29582
Class	Type
Error	Feedback error
Standard Reaction	Reset
Axis is inoperable	Execute Reset-Command (Fault reset).

Internal: 0x738E, HpfDsl: Encoder file processing error,
FileId=0x%X, Arg=0x%X

11.17 738F, HpfDsl: SafeCU monitored encoder status flag is set! The next fault reset triggers an encoder restart. EncST7..4=0xXX, EncST3..0=0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
738F	29583
Class	Type
Warning	Warning
Standard Reaction	Reset
No	Warning: No reset required.

Internal: 0x738F, HpfDsl: SafeCU monitored encoder status flag is set! The next fault reset triggers an encoder restart. EncST7..4=0x%X, EncST3..0=0x%X

11.18 7390, HpfDsl: Status dump, Encoder Status after IImS: Summary=0xXX, Regs 7..4=0xXX, Regs 3..0=0xXX

Content of the encoder status regs 0x47...0x44 and 0x43..0x40.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7390	29584
Class	Type
Error	Feedback error
Standard Reaction	Reset
Shorted coils brake	Execute Reset-Command (Fault reset).

Internal: 0x7390, HpfDsl: Status dump, Encoder Status after %dms:
Summary=0x%X, Regs 7..4=0x%X, Regs 3..0=0x%X

11.19 7391, HpfdSl: Status dump, Max occurred position deviation=UU mdeg

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7391	29585
Class	Type
Error	Feedback error
Standard Reaction	Reset
Shorted coils brake	Execute Reset-Command (Fault reset).

Internal: 0x7391, HpfdSl: Status dump, Max occurred position deviation=%u mdeg

11.20 7392, HpfdSl: Status dump, Error counter VPOS=UU, ACC=UU, VRT=UU, POS=UU, LINK=UU, Encoding=UU

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7392	29586
Class	Type
Error	Feedback error
Standard Reaction	Reset
Shorted coils brake	Execute Reset-Command (Fault reset).

Internal: 0x7392, HpfdSl: Status dump, Error counter VPOS=%u, ACC=%u, VRT=%u, POS=%u, LINK=%u, Encoding=%u

11.21 7393, 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 (Hex.)	Diagnostic Code (Dez.)
7393	29587
Class	Type
Error	Feedback error
Standard Reaction	Reset
Closed loop ramp	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
A safety error is present.	Check and clear the safety error.

Internal: 0x7393, HpfdSl: A safety error condition is blocking the encoder voltage.

11.22 7394, HpFDsl: An overload or an open load state is detected on the 2WireInterface.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7394	29588
Class	Type
Warning	Warning
Standard Reaction	Reset
No	Warning: No reset required.

Internal: 0x7394, HpFDsl: An overload or an open load state is detected on the 2WireInterface.

11.23 FFFF, Hpfdsl: Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FFFF	65535
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xFFFF, Hpfdsl: Internal Error, Additional Errorcode 0x%x

12 Diagmessages of MotorSlot

12.1 6320, Parameter error in Object 0xXX/XX

The mentioned parameter contains a not accepted value.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6320	25376
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x6320, Parameter error in Object 0x%x/%x

12.2 6387, Parameter Motor. The configured DCLink Max Voltage is higher then the Motor Max Voltage.

The configured DCLink Max Voltage is higher then the Motor Max Voltage.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6387	25479
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x6387, Parameter Motor. The configured DCLink Max Voltage is higher then the Motor Max Voltage.

12.3 638A, The Axis seems not to be parameterized.

No motor was parameterized for this axis

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
638A	25482
Class	Type
Error	Error
Standard Reaction	Reset
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'.

Internal: 0x638A, The Axis seems not to be parameterized.

12.4 638B, 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 (Hex.)	Diagnostic Code (Dez.)
638B	25483
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x638B, Parameter Torque Current curve: Unable to calculate Torque Current curve.

12.5 638C, Motor type does not match

The parameterized motor type is not valid

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
638C	25484
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x638C, Motor type does not match

12.6 638D, Connected Motor is compatible to the configured Motor

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
638D	25485
Class	Type
Info	Information
Standard Reaction	Reset
No	Information: No reset required.

Internal: *0x638D, Connected Motor is compatible to the configured Motor*

12.7 638E, The Motor brake is automatically unlocked

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
638E	25486
Class	Type
Info	Information
Standard Reaction	Reset
No	Information: No reset required.

Internal: *0x638E, The Motor brake is automatically unlocked*

12.8 7122, Motor error or commutation malfunction

Motor error or commutation malfunction

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7122	28962
Class	Type
Error	Commutation error
Standard Reaction	Reset
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)

Internal: 0x7122, Motor error or commutation malfunction

12.9 7181, Motor thermal utilization has reached the warning level

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7181	29057
Class	Type
Warning	Thermal utilization warning
Standard Reaction	Reset
No	Warning: No reset required.

Internal: *0x7181, Motor thermal utilization has reached the warning level*

12.10 7182, Motor thermal utilization has left the warning level

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7182	29058
Class	Type
Info	Thermal utilization warning is gone information
Standard Reaction	Reset
No	Information: No reset required.

Internal: 0x7182, Motor thermal utilization has left the warning level

12.11 7183, Motor thermal utilization has reached the Error Level

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7183	29059
Class	Type
Warning	Thermal utilization warning
Standard Reaction	Reset
No	Warning: No reset required.

Internal: 0x7183, Motor thermal utilization has reached the Error Level

12.12 7184, Motor overload shut down

The thermal motor model has detected an overload and turned off

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7184	29060
Class	Type
Error	Motor overload shut down
Standard Reaction	Reset
Nc handling	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
The thermal motor model has detected an overload and turned off	Reduced the motor load.

Internal: 0x7184, Motor overload shut down

12.13 7185, Motor overtemperature shut down

The thermal sensor of the motor has detected an overtemperature and turned off

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7185	29061
Class	Type
Error	Motor overtemperature shut down
Standard Reaction	Reset
Nc handling	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
The thermal sensor of the motor has detected an overtemperature and turned off	Reduced the motor temperature.

Internal: 0x7185, Motor overtemperature shut down

12.14 7186, 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 (Hex.)	Diagnostic Code (Dez.)
7186	29062
Class	Type
Error	Error
Standard Reaction	Reset
Axis is inoperable	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
A commutation offset should used, but no position offset has been saved.	Calibrate the axis and save the new commutation offset.

Internal: 0x7186, Commutation offset source: No commutation offset existing in source 'encoder memory'

12.15 7187, Cogging compensation init error, Additional Errorcode 0xXX

The initialization of the cogging compensation failed.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7187	29063
Class	Type
Error	Error
Standard Reaction	Reset
Axis is inoperable	Execute Reset-Command (Fault reset).

Internal: 0x7187, Cogging compensation init error, Additional Errorcode 0x%x

12.16 7188, Motor overtemperature warning

The motor temperature has reached the warning level.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7188	29064
Class	Type
Warning	Information
Standard Reaction	Reset
No	Information: No reset required.
Possible Causes	Solutions
The motor temperature has reached the warning level.	Reduced the motor temperature.

Internal: 0x7188, Motor overtemperature warning

12.17 7189, Invalid motor temperature sensor characteristic

The motor temperature sensor characteristic data is invalid.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7189	29065
Class	Type
Error	Motor overtemperature shut down
Standard Reaction	Reset
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.

Internal: 0x7189, Invalid motor temperature sensor characteristic

12.18 718A, Invalid motor temperature sensor data

The data of the motor temperature sensor is invalid.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
718A	29066
Class	Type
Error	Motor overtemperature shut down
Standard Reaction	Reset
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.

Internal: 0x718A, Invalid motor temperature sensor data

12.19 718B, Invalid motor inductance characteristic

The motor inductance characteristic data is invalid.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
718B	29067
Class	Type
Error	Error
Standard Reaction	Reset
Axis is inoperable	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
The current values of motor inductance characteristic are not rising.	Check values of the motor inductance characteristic object.

Internal: *0x718B, Invalid motor inductance characteristic*

12.20 718C, Sensorless control timeout error

The motor commutation position could not be estimated within the configured time.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
718C	29068
Class	Type
Error	Error
Standard Reaction	Reset
Shorted coils brake	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
The sensorless position estimation failed.	Check sensorless control parameter settings.

Internal: 0x718C, Sensorless control timeout error

12.21 718D, Sensorless control commutation position lost

The commutation position deviation exceeds the configured threshold.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
718D	29069
Class	Type
Error	Error
Standard Reaction	Reset
Shorted coils brake	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
The commutation position deviation exceeds the configured threshold.	Check sensorless control parameter settings.

Internal: 0x718D, Sensorless control commutation position lost

12.22 718E, Commutation offset not valid

The commutation offset is not valid.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
718E	29070
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x718E, Commutation offset not valid

12.23 718F, Commutation offset command parameter error

Commutation offset command method is not suitable for automatic commutation offset calibration.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
718F	29071
Class	Type
Error	Error
Standard Reaction	Reset
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 chose a suitable method.

Internal: 0x718F, Commutation offset command parameter error

12.24 7190, Commutation offset command excessive current deviation

Excessive current deviation during commutation offset command execution.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7190	29072
Class	Type
Error	Error
Standard Reaction	Reset
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 .

Internal: 0x7190, Commutation offset command excessive current deviation

12.25 7191, Commutation offset command feedback direction error

Commutation offset command feedback direction error.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7191	29073
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x7191, Commutation offset command feedback direction error

12.26 7192, Commutation offset command free movement check failed

Free movement check after commutation offset measurement failed.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7192	29074
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: *0x7192, Commutation offset command free movement check failed*

12.27 7193, Field weakening not supported in selected motor control mode

Field weakening not supported in selected motor control mode.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7193	29075
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x7193, Field weakening not supported in selected motor control mode

12.28 7194, Cogging compensation error, Id=0xXX, Arg=0xXX

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7194	29076
Class	Type
Error	Error
Standard Reaction	Reset
Axis is inoperable	Execute Reset-Command (Fault reset).

Internal: 0x7194, Cogging compensation error, Id=0x%X, Arg=0x%X

12.29 7195, Cogging compensation warning, Id=0xXX, Arg=0xXX

Cogging compensation warning.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7195	29077
Class	Type
Warning	Information
Standard Reaction	Reset
No	Information: No reset required.
Possible Causes	Solutions
The motor temperature has reached the warning level.	Reduced the motor temperature.

Internal: 0x7195, Cogging compensation warning, Id=0x%X, Arg=0x%X

12.30 7196, Position overflow detected

Field weakening not supported in selected motor control mode.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7196	29078
Class	Type
Error	Error
Standard Reaction	Reset
Closed loop ramp	Execute Extended Reset-Command (Fault reset with 'Unlock extended fault reset' Parameter).
Possible Causes	Solutions
The drive detected a position overflow, what is not expected on a linear encoder.	Use your linear encoder offset settings to prevent the overflow.

Internal: 0x7196, Position overflow detected

12.31 7197, The module in the torque control slot is not compatible with the configured motor

Wrong module in torque control slot.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7197	29079
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0x7197, The module in the torque control slot is not compatible with the configured motor

12.32 FFFF, Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FFFF	65535
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xFFFF, Internal Error, Additional Errorcode 0x%x

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13.1 FFFF, Internal Error, Additional Errorcode 0xXX

Internal Error

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FFFF	65535
Class	Type
Error	Error
Standard Reaction	Reset
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.

Internal: 0xFFFF, Internal Error, Additional Errorcode 0x%x

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