ANZEx

Australian/New Zealand Certification Scheme
for Explosion Protected Equipment

Certificate of Conformity

Ex EQUIPMENT

Certificate No.: **ANZEx 20.3004X**	*Current Issue:* 1	*Date of Issue:* 2025-07-15

Applicant: **Beckhoff Automation GmbH & Co.KG**
Hülshorstweg 20
33415 Verl
Germany

Equipment: I/O Terminal Series type ELX****-****-****

Type of Explosion Protection: Intrinsic Safety "i", Increased Safety "e"

Explosion Protection Marking:

Ex ec IIC T4 Gc	for power supply terminals type ELX9560-****-**** and type ELX9410-****-****
Ex ec [ia Ga] IIC T4 Gc [Ex ia Da] IIIC [Ex ia Ma] I	for all other terminals

This certificate is granted subject to the requirements as set out in
Joint Accreditation System of Australia and New Zealand Publications
ANZEx System Rules 2020 & ANZEx Certified Equipment Scheme Rules 2021

Signed for and on behalf of issuing body

Name & Position *Debbie Wouters – Acting Quality & Certification Manager*

This certificate is not transferable and remains the property of the issuing body.
The status of this certificate can be confirmed through the database located at www.anzex.com.au

Certificate issued by:

TestSafe Australia
919 Londonderry Road, Londonderry NSW 2753 Australia

JAS-ANZ
WWW.JAS-ANZ.ORG/REGISTER

NSW GOVERNMENT SafeWork NSW Test Safe AUSTRALIA

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Manufacturer : **Beckhoff Automation GmbH & Co.KG**
Hülshorstweg 20
33415 Verl
Germany

Manufacturing Location(s): As above.

STANDARDS:

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0:2017	Explosive atmospheres Part 0: Equipment – General requirements
IEC 60079-11:2011	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-7:2017	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

This Certificate does not indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

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Schedule

Equipment Description:

The I/O system terminals type ELX****-****-**** is a modular I/O system with contacts rated in the type of protection "ec" (supply contact / E-bus connector / spring-blade contact).

It consists of at least a power supply unit ELX9560, one of the signal terminals and a bus end cover ELX9012 resp. EtherCAT extension EK1110 to cover the power and E-bus contacts.

An integrated E-bus interface connects to ELX signal terminals right of the ELX9560 power supply unit and EK1110 right of the signal terminals. The signal terminals can be combined in any way. Their intrinsically safe output circuits (resp. switching circuits for ELX2792-****-****), type of protection Ex ia, can be led into areas which require EPL Ga, EPL Da or EPL Ma equipment. The ELX9410 power supply terminal for E-bus is used to refresh the non-intrinsically safe E-bus signal.

A fin at the front of the ELX9410 ensures the separation between the connection facilities of the signal terminal (intrinsically safe circuits) and the ELX9410 (non-intrinsically safe circuits).

There are 2 possible constellations to use the ELX9410:

- An additional ELX9560 power supply terminal followed by further ELX signal terminals can be connected to the right side of the ELX9410.
- Two ELX9410 terminals can be installed in direct succession for continuing the same terminal strand with standard Beckhoff EtherCAT Terminals.

The power supply unit ELX9560 and some signal terminals are available in 2 variants depending on the hardware version. These variants in different combinations are listed in the parameters. The Hardware version is marked on the power supply units as “HW:xx” where xx denotes the version number. The Hardware version is marked on the power supply units as “HW:xx” where xx denotes the version number.

Listing of all separately certified equipment used

Subject and type	Certificate	Standards
EtherCAT extension EK1110	IECEx DEK 16.0078X	IEC 60079-0:2017 IEC 60079-7:2017

Electrical Ratings/Parameters

1. Non-intrinsically safe circuits in level of protection ec.

1.1 Power supply terminal type **ELX9560-****-****

1.1.1 Power supply circuit

Spring contacts: red (24V), blue (0V)

Connection cross-section:

solid conductor and flexible conductor: 0.08…2.5 mm², ferrule: 0.14…1.0 mm²

Rated nominal input voltage (-15 %, +20 %)	DC 24 V
Rated maximal current In	750 mA
Maximum voltage U_m	AC 253 V

1.1.2 E-bus circuit

E-bus connector

Rated nominal voltage	DC 5 V
Rated current	40 mA
Maximum voltage U_m	AC 253 V

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1.2 Power supply terminal for E-bus type **ELX9410-****-****

1.2.1 Supply circuit

Clamp contacts 5 (Input 24V), 6 (Input 0V)

Rated nominal input voltage (-15 %, +20 %)	DC 24 V
Maximum voltage U_m	AC 253 V

1.2.2 E-bus circuit

E-bus connector

Rated nominal voltage	DC 5 V
Rated current	40 mA
Maximum voltage U_m	AC 253 V

1.3 EtherCAT extension type **EK1110-xxxx**

1.3.1 Ethernet circuit

Ethernet RJ45 connector X1

Rated nominal voltage (-15 %, +20 %)	U_n	DC	3.3	V
Rated power	P_n		160	mW
Maximum voltage	U_m	AC	253	V

1.3.2 E-bus circuit

E-bus connector

Rated nominal voltage (-15 %, +20 %)	U_n	DC	5	V
Rated current	I_n		130	mA
Maximum voltage	U_m	AC	253	V

The front terminal contacts are not fitted

2 Intrinsically safe output circuits in level of protection “ia” for connection of intrinsically safe sensors or actuators

2.1 Signal terminal type **ELX1052-****-****

Channel 1: Clamp contacts 4 (Uv1), 1 (Input 1, I1)

Channel 2: Clamp contacts 8 (Uv2), 5 (Input 2, I2)

Each channel

Maximum output voltage U_o	10.75 V
Maximum output current I_o	12 mA

Linear output characteristics

Maximum output power P_o	33 mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB/IIIC	IIC
Co [µF]	58	66	15	2.14
Lo [mH]	100	100	100	100

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2.2 Signal terminal type **ELX1054-****-******
Channel 1: Clamp contacts 2 (Uv1), 1 (Input 1, I1)
Channel 2: Clamp contacts 6 (Uv2), 5 (Input 2, I2)
Channel 3: Clamp contacts 3 (Uv3), 4 (Input 3, I3)
Channel 4: Clamp contacts 7 (Uv4), 8 (Input 4, I4)

Each channel

Maximum output voltage U_o	10.72 V
Maximum output current I_o	10.4 mA
Linear output characteristics	
Maximum output power P_o	28 mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB/IIIC	IIC
Co [µF]	58	66	15	2.14
Lo [mH]	100	100	100	100

2.3 Signal terminal type **ELX1058-****-******
Channel 1: Clamp contacts 9 (Uv1), 1 (Input 1)
Channel 2: Clamp contacts 10 (Uv2), 2 (Input 2)
Channel 3: Clamp contacts 11 (Uv3), 3 (Input 3)
Channel 4: Clamp contacts 12 (Uv4), 4 (Input 4)
Channel 5: Clamp contacts 13 (Uv5), 5 (Input 5)
Channel 6: Clamp contacts 14 (Uv6), 6 (Input 6)
Channel 7: Clamp contacts 15 (Uv7), 7 (Input 7)
Channel 8: Clamp contacts 16 (Uv8), 8 (Input 8)

Each channel

Maximum output voltage U_o	10.72 V
Maximum output current I_o	10.4 mA
Linear output characteristics	
Maximum output power P_o	28 mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB/IIIC	IIC
Co [µF]	58	66	15	2.14
Lo [mH]	100	100	100	100

2.4 Signal terminal type **ELX2002-****-******
Channel 1: Clamp contacts 1 (+Output1, +O1), 3 (-Output1, -O1)
Channel 2: Clamp contacts 5 (+Output2, +O2), 7(-Output2, -O2)

Each channel:

The output values depend on the connected power supply unit:

2.4.1 When connected to ELX9560-****-**** **HW:xx** with xx < 05
(Variants with Hardware version below 05)

Maximum output voltage	U_o	27.7	V

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Maximum output current	I_o	111	mA
Linear output characteristics			
Maximum output power	P_o	768	mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.45	2.2	0.663	0.085
L_o [mH]	24	16	9.2	0.094

2.4.2 When connected to ELX9560-****-**** **HW:xx** with xx ≥ 05
(Variants with Hardware version 05 or above)

Maximum output voltage	U_o	27	V
Maximum output current	I_o	109	mA
Linear output characteristics			
Maximum output power	P_o	730	mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.75	2.33	0.705	0.09
L_o [mH]	25	17	9.9	0.47

2.5 Signal terminal type **ELX2008-****-****
Channel 1: Clamp contacts 1 (+Output1, +O1), 2 (-Output1, -O1)
Channel 2: Clamp contacts 5 (+Output2, +O2), 6(-Output2, -O2)
Channel 3: Clamp contacts 4 (+Output3, +O3), 3 (-Output3, -O3)
Channel 4: Clamp contacts 8 (+Output4, +O4), 7(-Output4, -O4)
Channel 5: Clamp contacts 9 (+Output5, +O5), 10 (-Output5, -O5)
Channel 6: Clamp contacts 13 (+Output6, +O6), 14(-Output6, -O6)
Channel 7: Clamp contacts 12 (+Output7, +O7), 11 (-Output7, -O7)
Channel 8: Clamp contacts 16 (+Output8, +O8), 15(-Output8, -O8)
Each channel:
The output values depend on the hardware versions of connected power supply unit and signal terminal:

2.5.1 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-****-****	Signal terminal type **ELX2008-****-****
HW:xx with xx	< 05	< 01

Maximum output voltage	U_o	27.7	V
Maximum output current	I_o	111	mA
Linear output characteristics			
Maximum output power	P_o	773	mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.45	2.2	0.663	0.085
L_o [mH]	24	16	9.2	0.094

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2.5.2 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-******-****	Signal terminal type **ELX2008-******-****
HW:xx with xx	≥ 05	< 01

Maximum output voltage	U_o	27	V
Maximum output current	I_o	109	mA
Linear output characteristics			
Maximum output power	P_o	735	mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.75	2.33	0.705	0.09
L_o [mH]	25	17	9.9	0.47

2.5.3 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-******-****	Signal terminal type **ELX2008-******-****
HW:xx with xx	< 05	≥ 01

Maximum output voltage	U_o	27.7	V
Maximum output current	I_o	109	mA
Linear output characteristics			
Maximum output power	Po	751	mW

Maximum external capacitance Co or maximum external inductance Lo:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.45	2.2	0.663	0.085
L_o [mH]	25	17	9.6	0.18

2.5.4 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-******-****	Signal terminal type **ELX2008-******-****
HW:xx with xx	≥ 05	≥ 01

Maximum output voltage	U_o	27	V
Maximum output current	I_o	106	mA
Linear output characteristics			
Maximum output power	P_o	713	mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.75	2.33	0.705	0.09
L_o [mH]	27	19	11	0.63

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2.6 Signal terminal type **ELX3152-****-******
Channel 1: Clamp contacts 1 (Uv1), 2 (GND, -I1), 3 (Input1, +I1)
Channel 2: Clamp contacts 5 (Uv2), 6 (GND, -I2), 7 (Input2, +I2)

Each channel:
The output values depend on the hardware versions of connected power supply unit and signal terminal:

2.6.1 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-****-******	Signal terminal type **ELX3152-****-******
HW:xx with xx	< 05	< 02

Maximum output voltage	U_o	27.7	V
Maximum output current	I_o	85	mA
Linear output characteristics			
Maximum output power	P_o	565	mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.45	2.2	0.663	0.085
L_o [mH]	43	30	18	2

2.6.2 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-****-******	Signal terminal type **ELX3152-****-******
HW:xx with xx	≥ 05	< 02

Maximum output voltage	U_o	27	V
Maximum output current	I_o	80	mA
Linear output characteristics			
Maximum output power	Po	540	mW

Maximum external capacitance Co or maximum external inductance Lo:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.75	2.33	0.705	0.09
L_o [mH]	49	35	21	2.8

2.6.3 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-****-******	Signal terminal type **ELX3152-****-******
HW:xx with xx	< 05	≥ 02

Maximum output voltage	U_o	27.7	V
Maximum output current	I_o	76	mA
Linear output characteristics			
Maximum output power	P_o	522	mW

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Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.45	2.2	0.663	0.085
L_o [mH]	55	39	23	3.1

2.6.4 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-****-******	Signal terminal type **ELX3152-****-******
HW:xx with xx	≥ 05	≥ 02

Maximum output voltage	U_o	27	V
Maximum output current	I_o	74	mA
Linear output characteristics			
Maximum output power	P_o	496	mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.75	2.33	0.705	0.09
L_o [mH]	59	42	25	3.7

2.7 Signal terminal type **ELX3158-****-******
Channel 1: Clamp contacts 1 (Input1, I1), 9 (Uv1)
Channel 2: Clamp contacts 5 (Input2, I2), 13 (Uv2)
Channel 3: Clamp contacts 2 (Input3, I3), 10 (Uv3)
Channel 4: Clamp contacts 6 (Input4, I4), 14 (Uv4)
Channel 5: Clamp contacts 3 (Input5, I5), 11 (Uv5)
Channel 6: Clamp contacts 7 (Input6, I6), 15 (Uv6)
Channel 7: Clamp contacts 4 (Input7, I7), 12 (Uv7)
Channel 8: Clamp contacts 8 (Input8, I8), 16 (Uv8)

Each channel:
The output values depend on the hardware versions of connected power supply unit and signal terminal:

2.7.1 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-****-******	Signal terminal type **ELX3158-****-******
HW:xx with xx	< 05	< 01

Maximum output voltage	U_o	27.7	V
Maximum output current	I_o	85	mA
Linear output characteristics			
Maximum output power	P_o	565	mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.45	2.2	0.663	0.085
L_o [mH]	43	30	18	2

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2.7.2 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-******-****	Signal terminal type **ELX3158-******-****
HW:xx with xx	≥ 05	< 01

Maximum output voltage	U_o	27	V
Maximum output current	I_o	80	mA
Linear output characteristics			
Maximum output power	P_o	535	mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.75	2.33	0.705	0.09
L_o [mH]	49	35	21	2.8

2.7.3 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-******-****	Signal terminal type **ELX3158-******-****
HW:xx with xx	< 05	≥ 01

Maximum output voltage	U_o	27.7	V
Maximum output current	I_o	76	mA
Linear output characteristics			
Maximum output power	P_o	522	mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.45	2.2	0.663	0.085
L_o [mH]	55	39	23	3.1

2.7.4 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-******-****	Signal terminal type **ELX3158-******-****
HW:xx with xx	≥ 05	≥ 01

Maximum output voltage	U_o	27	V
Maximum output current	I_o	74	mA
Linear output characteristics			
Maximum output power	Po	496	mW

Maximum external capacitance Co or maximum external inductance Lo:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.75	2.33	0.705	0.09
L_o [mH]	59	42	25	3.7

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2.8 Signal terminal type **ELX3181-****-******
Channel 1: Clamp contacts 8 (Uv1), 7(Input1, I1)

The output value depends on the hardware versions of connected power supply unit and signal terminal:

2.8.1 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-******-****	Signal terminal type **ELX3181-******-****
HW:xx with xx	< 05	< 02

Maximum output voltage	U_o	27.7	V
Maximum output current	I_o	85	mA
Linear output characteristics			
Maximum output power	P_o	565	mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.45	2.2	0.663	0.085
L_o [mH]	43	30	18	2

2.8.2 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-******-****	Signal terminal type **ELX3181-******-****
HW:xx with xx	≥ 05	< 02

Maximum output voltage	U_o	27	V
Maximum output current	I_o	80	mA
Linear output characteristics			
Maximum output power	P_o	535	mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.75	2.33	0.705	0.09
L_o [mH]	49	35	21	2.8

2.8.3 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-******-****	Signal terminal type **ELX3181-******-****
HW:xx with xx	< 05	≥ 02

Maximum output voltage	Uo	27.7	V
Maximum output current	Io	76	mA
Linear output characteristics			
Maximum output power	Po	522	mW

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Maximum external capacitance Co or maximum external inductance Lo:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.45	2.2	0.663	0.085
L_o [mH]	55	39	23	3.1

2.8.4 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-********-******	Signal terminal type **ELX3181-********-******
HW:xx with xx	≥ 05	≥ 02

Maximum output voltage	U_o	27	V
Maximum output current	I_o	74	mA
Linear output characteristics			
Maximum output power	P_o	496	mW

Maximum external capacitance Co or maximum external inductance Lo:

	I	IIA	IIB / IIIC	IIC
Co [µF]	3.75	2.33	0.705	0.09
Lo [mH]	59	42	25	3.7

2.9 Signal terminal type **ELX3184-********-******

Channel 1: Clamp contacts 4 (Uv1), 2 (I1)
Channel 2: Clamp contacts 8 (Uv2), 6 (I2)
Channel 3: Clamp contacts 12 (Uv3), 10 (I3)
Channel 4: Clamp contacts 16 (Uv4), 14(I4)

The output values depend on the hardware versions of connected power supply unit and signal terminal:

2.9.1 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-********-******	Signal terminal type **ELX3184-********-******
HW:xx with xx	< 05	< 01

Maximum output voltage	Uo	27.7	V
Maximum output current	Io	81	mA
Linear output characteristics			
Maximum output power	Po	561	mW

Maximum external capacitance Co or maximum external inductance Lo:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.45	2.2	0.663	0.085
L_o [mH]	43	34	20	2.4

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2.9.2 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-******-****	Signal terminal type **ELX3184-******-****
HW:xx with xx	≥ 05	< 01

Maximum output voltage	Uo	27	V
Maximum output current	Io	79	mA
Linear output characteristics			
Maximum output power	Po	534	mW

Maximum external capacitance Co or maximum external inductance Lo:

	I	IIA	IIB / IIIC	IIC
Co [µF]	3.75	2.33	0.705	0.09
Lo [mH]	49	36	20	3

2.9.3 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-******-****	Signal terminal type **ELX3184-******-****
HW:xx with xx	< 05	≥ 01

Maximum output voltage	U_o	27.7	V
Maximum output current	I_o	76	mA
Linear output characteristics			
Maximum output power	P_o	522	mW

Maximum external capacitance Co or maximum external inductance Lo:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.45	2.2	0.663	0.085
L_o [mH]	55	39	23	3.1

2.9.4 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-******-****	Signal terminal type **ELX3184-******-****
HW:xx with xx	≥ 05	≥ 01

Maximum output voltage	U_o	27	V
Maximum output current	I_o	74	mA
Linear output characteristics			
Maximum output power	P_o	496	mW

Maximum external capacitance Co or maximum external inductance Lo:

	I	IIA	IIB / IIIC	IIC
Co [µF]	3.75	2.33	0.705	0.09
Lo [mH]	59	42	25	3.7

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2.10 Signal terminal type **ELX3202-****-******
Channel 1: Clamp contacts 1 (+RL1), 2 (+R1), 5 (-RL1), 6 (-R1)
Channel 2: Clamp contacts 3 (+RL2), 4 (+R2), 7 (-RL2), 8 (-R2)

Each channel

Maximum output voltage U_o 4.94 V
Maximum output current I_o 12 mA

Linear output characteristics
Maximum output power P_o 15 mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB/IIIC	IIC
Co [µF]	1000	1000	1000	100
Lo [mH]	100	100	100	100

2.11 Signal terminal type **ELX3204-****-******
Channel 1: Clamp contacts 1 (+R1), 5 (-R1)
Channel 2: Clamp contacts 2 (+R2), 6 (-R2)
Channel 3: Clamp contacts 3 (+R3), 7 (-R3)
Channel 4: Clamp contacts 4 (+R4), 8 (-R4)

Each channel
Maximum output voltage U_o 4.94 V
Maximum output current I_o 12 mA

Linear output characteristics
Maximum output power P_o 15 mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB/IIIC	IIC
Co [µF]	1000	1000	1000	100
Lo [mH]	100	100	100	100

2.12 Signal terminal type **ELX3252-******-****
Channel 1: Clamp contacts 1 (-R1), 5 (+R1), 2 (RL1)
Channel 2: Clamp contacts 4 (-R2), 8 (+R2), 3 (RL2) Each

channel:

Maximum output voltage	U_o	4.94	V
Maximum output current	I_o	12	mA
Linear output characteristics			
Maximum output power	P_o	16	mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I, IIA, IIB, IIIC	IIC
C_o [µF]	1000	100
L_o [mH]	100	100

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2.13 Signal terminal type **ELX3312-****-******
Channel 1: Clamp contacts 1 (+TC1), 5 (-TC1)
Channel 2: Clamp contacts 2 (+TC2), 6 (-TC2)

Each channel

Maximum output voltage U_o 4.94 V
Maximum output current I_o 0.5 mA

Linear output characteristics
Maximum output power P_o 0.5 mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB/IIIC	IIC
Co [µF]	1000	1000	1000	100
Lo [mH]	100	100	100	100

2.14 Signal terminal type **ELX3314-****-******
Channel 1: Clamp contacts 1 (+TC1), 5 (-TC1)
Channel 2: Clamp contacts 2 (+TC2), 6 (-TC2)
Channel 3: Clamp contacts 3 (+TC3), 7 (-TC3)
Channel 4: Clamp contacts 4 (+TC4), 8 (-TC4)

Each channel

Maximum output voltage U_o 4.94 V
Maximum output current I_o 0.5 mA

Linear output characteristics
Maximum output power P_o 0.5 mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB/IIIC	IIC
Co [µF]	1000	1000	1000	100
Lo [mH]	100	100	100	100

2.15 Signal terminal type **ELX3351-****-******
Channel 1: Clamp contacts 2 (+UD), 6 (-UD), 3 (+UR), 7 (-UR), 4 (+UV), 8 (-UV)
Maximum output voltage U_o 11.76 V
Maximum output current I_o 146 mA

Linear output characteristics
Maximum output power P_o 214 mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB/IIIC	IIC
Co [µF]	40	39	9.9	1.5
Lo [mH]	20	13.3	6.6	1.7

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2.16 Signal terminal type **ELX4154-****-******
Channel 1: Clamp contacts 9 (Output 1, 01), 5 (GND)
Channel 2: Clamp contacts 10 (Output 2, 02), 6 (GND)
Channel 3: Clamp contacts 11 (Output 3, 03), 7 (GND)
Channel 4: Clamp contacts 12 (Output 4, 04), 8 (GND)

Each channel:
The output values depend on the hardware versions of connected power supply unit and signal terminal:

2.16.1 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-****-******	Signal terminal type **ELX4154-****-******
HW:xx with xx	< 05	< 02

Maximum output voltage	U_o	27.7	V
Maximum output current	I_o	85	mA
Linear output characteristics			
Maximum output power	P_o	565	mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.45	2.2	0.663	0.085
L_o [mH]	43	30	18	2

2.16.2 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-****-******	Signal terminal type **ELX4154-****-******
HW:xx with xx	≥ 05	< 02

Maximum output voltage	U_o	27	V
Maximum output current	I_o	80	mA
Linear output characteristics			
Maximum output power	Po	535	mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.75	2.33	0.705	0.09
L_o [mH]	49	35	21	2.8

2.16.3 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-****-******	Signal terminal type **ELX4154-****-******
HW:xx with xx	< 05	≥ 02

Maximum output voltage	U_o	27.7	V
Maximum output current	I_o	76	mA

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Linear output characteristics
Maximum output power P_o 522 mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.45	2.2	0.663	0.085
L_o [mH]	55	39	23	3.1

2.16.4 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-******-****	Signal terminal type **ELX4154-******-****
HW:xx with xx	≥ 05	≥ 02

Maximum output voltage U_o 27 V
Maximum output current I_o 74 mA
Linear output characteristics
Maximum output power P_o 496 mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.75	2.33	0.705	0.09
L_o [mH]	59	42	25	3.7

2.17 Signal terminal type **ELX4181-****-******
Channel 1: Clamp contacts 8 (Output 1, O1), 6 (GND)
The output value depends on the hardware versions of connected power supply unit and signal terminal:

2.17.1 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-******-****	Signal terminal type **ELX4181-******-****
HW:xx with xx	< 05	< 03

Maximum output voltage U_o 27.7 V
Maximum output current I_o 85 mA
Linear output characteristics
Maximum output power Po 565 mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.45	2.2	0.663	0.085
L_o [mH]	43	30	18	2

2.17.2 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-******-****	Signal terminal type **ELX4181-******-****
HW:xx with xx	≥ 05	< 03

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Maximum output voltage	U_o	27	V
Maximum output current	I_o	80	mA
Linear output characteristics			
Maximum output power	P_o	535	mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.75	2.33	0.705	0.09
L_o [mH]	49	35	21	2.8

2.17.3 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-****-******	Signal terminal type **ELX4181-****-******
HW:xx with xx	< 05	≥ 03

Maximum output voltage	U_o	27.7	V
Maximum output current	I_o	76	mA
Linear output characteristics			
Maximum output power	P_o	522	mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.45	2.2	0.663	0.085
L_o [mH]	55	39	23	3.1

2.17.4 These parameters apply to the combination of hardware versions from the table:

Hardware Version	Power supply type **ELX9560-****-******	Signal terminal type **ELX4181-****-******
HW:xx with xx	≥ 05	≥ 03

Maximum output voltage	U_o	27	V
Maximum output current	I_o	74	mA
Linear output characteristics			
Maximum output power	Po	496	mW

Maximum external capacitance Co or maximum external inductance Lo:

	I	IIA	IIB / IIIC	IIC
C_o [µF]	3.75	2.33	0.705	0.09
L_o [mH]	59	42	25	3.7

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2.18 Signal terminal type **ELX5151-****-******
Channel 1: Clamp contacts 4 (Uv1), 1 (A)
Channel 2: Clamp contacts 8 (Uv2), 5 (B)

Each channel

Maximum output voltage U_o	10.72 V
Maximum output current I_o	12.4 mA

Linear output characteristics
Maximum output power P_o 33 mW

Maximum external capacitance C_o or maximum external inductance L_o:

	I	IIA	IIB/IIIC	IIC
Co [µF]	58	66	15	2.14
Lo [mH]	100	100	100	100

3 Intrinsically safe switching circuits in level of protection ia

Signal terminal type **ELX2792-****-******

Channel 1: Clamp contacts 14 (NO_1), 11 (COM_1), 12 (NC_1)
Channel 2: Clamp contacts 24 (NO_2), 21 (COM_2), 22 (NC_2)

Each channel:

Nominal switching voltage		AC/DC ≤ 30	V
Nominal switching current		AC ≤ 0.5	A
		DC ≤ 1	A
Maximum input voltage	U_i	AC/DC 30	V
Maximum input current	I_i	internally limited	
Maximum input power	P_i	internally limited	
Effective internal capacitance	C_i	0.9	nF
Effective internal inductance	Li	negligible	

4 Ambient temperature range -25 °C ≤ T_a ≤ 60 °C

Specific Conditions of Use:

1. The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
2. The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP54 in accordance with IEC 60079-0.
3. Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment.
4. The circuits shall be limited to overvoltage Category II as defined in IEC 60664-1.
5. The Terminal system is suitable for use in a temperature range of -25 °C to +60 °C.
6. Do not disconnect energized terminals.

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7. The last terminal of each segment is to be covered by a bus end cover ELX9012 unless two ELX9410 terminals are installed in direct succession for continuing the same terminal segment with standard Beckhoff EtherCAT terminals (e.g. EL/ES/EK).
8. An additional ELX9560 power supply terminal, followed by further ELX signal terminals can be connected to the right side of the ELX9410.

Manufacturer's Documents/Drawings associated with this issue:

Document Number	Pages / Sheets	Document Title	Revision	Date
Overall				
BA_ELXxxxx_SystemDesc	40	Overall descriptions and technical specifications	0.0.3	2018-07-20
BA_ELXxxxx_TecDrawing_SeparationDistances-1	1	Determination of minimum clearance and creepage distances: External connections of a single ELX9560 and to other ELX signal terminals	1.0	2018-03-01
BA_ELXxxxx_TecDrawing_SeparationDistances-2	2	Determination of minimum clearance and creepage distances: External connections of a single ELX9410 and a single following ELX9560	1.0	2018-02-22
BA_ELXxxxx_TecDrawing_SeparationDistances-3	1	Determination of minimum clearance and creepage distances: External connections of a single ELX signal terminal	1.0	2018-02-22
BA_ELXxxxx_TecDrawing_SeparationDistances-4	2	Determination of minimum clearance and creepage distances: External connections of a two consecutive ELX9410 and a single following non ELX terminal	1.0	2018-08-01
BA_ELXxxxx_TecDrawing_SeparationDistances-5	1	Determination of minimum clearance and creepage distances: External connections of a single 24 mm of a single ELX signal terminal	1.0	2019-01-16
BA_ELXxxxx_TecDrawing_SeparationDistances-8	5	Determination of minimum clearance and creepage distances for ELX-12-16pin (HD) enclosures	1.0	2020-02-20
BA_ELXxxxx_enclosure_overview	3	Overview of the different ELX enclosures	1.0	2020-02-25
BA_ELXxxxx_DS_Con-Series750_Front_HD	1	Serie 750	1.0	2019-12-04
BA_ELXxxxx_TecDrawing_Separat ion Distances-6	1	*Arbeitsbaugruppe FadenmaB ELX-EK1110 (Determination of minimum clearance and creepage distances: External connections of ELX- EK1110)	1.0	2023-11-13
BA_ELXxxxx_TecDrawing_Separat ion Distances-7	1	*Arbeitsbaugruppe FadenmaB HD-EK1110 (Determination of minimum clearance and creepage distances: External connections of HD- EK1110)	1.0	2023-11-13
BA_ELX_ANZEx_Label	2	*Application Instructions for ANZEx labels	1.1.0	2025-05-13
ELX9560-**-****, HW:xx with xx < 05 (Variants with hardware version below 05):**				
ELX9012, ELX9410 and ELX9560	38	*Operating manual ELX9012, ELX9410 and ELX9560	1.9.0	2025-06-24
BA_ELX0000_Schematic	4	ELX0000 Schematics	1.0	2017-11-16

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Document Number	Pages / Sheets	Document Title	Revision	Date
BA_ELX0000_BOM	1	ELX0000 BOM	1.0	2018-07-20
BA_ELX0000_Assembly	4	ELX0000 Assembly	1.0	2017-11
BA_ELX0000_Layout	2	ELX0000 Layout	1.0	2017-11
BA_ELX9560O_Schematic	4	ELX9560O Schematics	1.0	2017-11-17
BA_ELX9560O_BOM	1	ELX9560O BOM	1.0	2018-07-20
BA_ELX9560O_Layout	4	ELX9560O Layout	1.0	2018-05-20
BA_ELX9560O_Assembly	4	ELX9560O Assembly	1.0	2018-05-20
BA_ELX9560R2_Schematic	5	ELX9560R2 Schematics	3.0	2019-02-12
BA_ELX9560R2_BOM	2	ELX9560R2 BOM	3.0	2019-02-12
BA_ELX9560R2_Assembly	4	ELX9560R2 Assembly	3.0	2019-02-12
BA_ELX9560R2_Layout	4	ELX9560R2 Layout	3.0	2019-02-12
BA_ELX9560L_Schematic	4	ELX9560L Schematics	1.0	2018-07-20
BA_ELX9560L_BOM	1	ELX9560L BOM	1.0	2018-07-20
BA_ELX9560L_Assembly	4	ELX9560L Assembly	1.0	2018-07-20
BA_ELX9560L_Layout	4	ELX9560L Layout	1.0	2018-07-20
ELX9560-**-****, HW:xx with xx ≥ 05 (Variants with hardware version 05 or above):**				
ELX9012, ELX9410 and ELX9560	38	*Operating manual ELX9012, ELX9410 and ELX9560	1.9.0	2025-06-24
BA_ELX9560R_Schematic	5	*ELX9560R Schematics	9.0	2022-08-17
BA_ELX9560R_BOM	3	*ELX9560R BOM	9.0	2022-12-08
BA_ELX9560R_Assembly	4	*ELX9560R Assembly	9.0	2022-08-17
BA_ELX9560R_Layout	4	*ELX9560R Layout	9.0	2022-12-08
BA_ELX9560O_Schematic	4	*ELX9560O Schematics	6.0	2020-04-30
BA_ELX9560O_BOM	1	*ELX9560O BOM	6.0	2021-05-03
BA_ELX9560O_Assembly	4	*ELX9560O Assembly	6.0	2020-02
BA_ELX9560O_Layout	4	*ELX9560O Layout	6.0	2021-05-03
BA_ELX9560L_Schematic	4	*ELX9560L Schematics	4.0	2021-01-15
BA_ELX9560L_BOM	1	*ELX9560L BOM	4.0	2021-05-03
BA_ELX9560L_Assembly	4	*ELX9560L Assembly	4.0	2021-01
BA_ELX9560L_Layout	4	*ELX9560L Layout	4.0	2021-05-03
ELX9410-*-***				
ELX9012, ELX9410 and ELX9560	38	*Operating manual ELX9012, ELX9410 and ELX9560	1.9.0	2025-06-24

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Document Number	Pages / Sheets	Document Title	Revision	Date
BA_ELX9410_Schematic	6	Schematic	2.0	2018-10-16
BA_ELX9410_BOM	2	BOM	2.0	2018-10-16
BA_ELX9410_Layout	4	Layout	2.0	2018-10-16
BA_ELX9410_Assembly	4	Assembly	2.0	2018-10-16
ELX1052-**-****				
ELX1052, ELX1054 and ELX1058	121	*Operating manual ELX1052, ELX1054 and ELX1058	2.3.0	2025-06-24
BA_ELX1052_Schematic	6	Schematics	1.0	2018-03-20
BA_ELX1052_BOM	3	BOM	1.0	2018-07-20
BA_ELX1052_Assembly	4	Assembly	1.0	2018-03-20
BA_ELX1052_Layout	4	Layout	1.0	2018-02
ELX1054-**-****				
ELX1052, ELX1054 and ELX1058	121	*Operating manual ELX1052, ELX1054 and ELX1058	2.3.0	2025-06-24
BA_ELX1054_Schematic	8	Schematic	1.0	2018-08-22
BA_ELX1054_BOM	4	BOM	1.0	2018-10-01
BA_ELX1054_Layout	4	Layout	1.0	2018 - 08
BA_ELX1054_Assembly	4	Assembly	1.0	2018 – 08
ELX1058-**-****				
ELX1052, ELX1054 and ELX1058	121	*Operating manual ELX1052, ELX1054 and ELX1058	2.3.0	2025-06-24
BA_ELX1058_Schematic	8	*Schematics	2.0	2020-10-08
BA_ELX1058_BOM	5	*BOM	3.0	2021-05-03
BA_ELX1058_Layout	4	*Layout	3.0	2021-05-03
BA_ELX1058_Assembly	4	*Assembly	3.0	2021-04
BA_ELK1058_TR_Rth-D812	6	* Ermittlung des thermischen Widerstandes R_{eJA} der Z-Diode 0812	1.0	2020-01-28
ELX2002-**-****				
ELX2002 and ELX2008	38	*Operating manual ELX2002 and ELX2008	2.3.0	2025-06-24
BA_ELX2002_Schematic	5	Schematics	1.0	2018-02-09
BA_ELX2002_BOM	2	BOM	1.0	2018-07-20
BA_ELX2002_Assembly	4	Assembly	1.0	2018-02-27
BA_ELX2002_Layout	4	Layout	1.0	2018-02
ELX2008-**-****				

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Document Number	Pages / Sheets	Document Title	Revision	Date
ELX2002 and ELX2008	38	*Operating manual ELX2002 and ELX2008	2.3.0	2025-06-24
BA_ELX2008L_Schematic	6	*Schematics	1.2	2024-06-07
BA_ELX2008L_BOM	3	*BOM	1.2	2024-06-07
BA_ELX2008L_Assembly	6	*Assembly	1.2	2024-06-07
BA_ELX2008L_Layout	4	Layout	1.0	2019 - 02
BA_ELX2008R_Schematic	6	*Schematics	1.2	2024-06-07
BA_ELX2008R_BOM	2	*BOM	1.2	2024-06-07
BA_ELX2008R_Assembly	6	*Assembly	1.2	2024-06-07
BA_ELX2008R_Layout	4	Layout	1.0	2019 - 02
ELX2792-**-****				
ELX2792	34	*Operating Manual ELX2792	1.1.0	2025-06-24
BA_ELX2792_Schematic	1 of 7	*Schematics	1.0	2022-08-29
BA_ELX2792_Schematic	2 of 7	*Schematics	1.0	2022-08-25
BA_ELX2792_Schematic	3 of 7	*Schematics	1.0	2022-11-07
BA_ELX2792_Schematic	4 of 7	*Schematics	1.0	2022-09-07
BA_ELX2792_Schematic	5 of 7	*Schematics	1.0	2022-11-07
BA_ELX2792_Schematic	6 of 7	*Schematics	1.0	2022-09-09
BA_ELX2792_Schematic	7 of 7	*Schematics	1.0	2022-09-08
BA_ELX2792_BOM	5	*BOM	1.0	2022-12-08
BA_ELX2792_Assembly	1,2 of 4	*Assembly	1.0	2022-09
BA_ELX2792_Assembly	3,4 of 4	*Assembly	1.0	2022-11
BA_ELX2792_Layout	4	*Layout	1.0	2022-12-08
ELX3152-**-****				
ELX3152 and ELX3158	151	*Operating Manual ELX3152 and ELX3158	2.4.0	2025-06-24
BA_ELX3152_Schematic	7	*Schematics	2.0	2024-06-07
BA_ELX3152_BOM	4	*BOM	2.0	2024-06-07
BA_ELX3152_Assembly	6	*Assembly	2.0	2024-06-07
BA_ELX3152_Layout	4	Layout	1.0	2017-11
ELX3158-**-****				
ELX3152 and ELX3158	151	*Operating Manual ELX3152 and ELX3158	2.4.0	2025-06-24
BA_ELX3158L_Schematic	7	*Schematics	5.0	2020-10-08
BA_ ELX3158L_BOM	4	*BOM	5.0	2020-10-08

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Document Number	Pages / Sheets	Document Title	Revision	Date
BA_ ELX3158L_Layout	4	*Layout	5.0	2020-10-08
BA_ ELX3158L_Assembly	4	*Assembly	5.0	2020-10-08
BA_ELX3158R_Schematic	4	*Schematics	2.1	2024-06-07
BA_ELX3158R_BOM	2	*BOM	2.1	2024-06-07
BA_ELX3158R_Assembly	6	*Assembly	2.1	2024-06-07
BA_ELX3158R_Layout	4	*Layout	2.0	2020-09-02
ELX3181-**-****				
ELX3181 and ELX3184	156	*Operating manual ELX3181 and ELX3184	2.3.0	2025-06-24
BA_ELX3181_Schematic	8	*Schematics	1.1	2024.06.07
BA_ELX3181_BOM	5	*BOM	1.1	2024.06.07
BA_ELX3181_Assembly	6	*Assembly	1.1	2024.06.07
BA_ELX3181_Layout	4	Layout	1.0	2018.02
ELX3184-**-****				
ELX3181 and ELX3184	156	*Operating manual ELX3181 and ELX3184	2.3.0	2025-06-24
BA_ELX3184L_Schematic	7	*Schematics	2.1	2024-06-07
BA_ELX3184L_BOM	4	*BOM	2.1	2024-06-07
BA_ELX3184L_Assembly	6	*Assembly	2.1	2024-06-07
BA_ELX3184R_Schematic	7	*Schematics	2.1	2024-06-07
BA_ELX3184R_BOM	3	*BOM	2.1	2024-06-07
BA_ELX3184R_Assembly	6	*Assembly	2.1	2024-06-07
BA_ELX3184_Layout	4	*Layout	2.0	2021-10-05
ELX3202-**-****				
ELX3202 and ELX3204	78	*Operating manual ELX3202 and ELX3204	1.6.0	2025-06-24
BA_ELX3202_Schematic	8	*Schematics	2.0	2023-11-13
BA_ELX3202_BOM	5	*BOM	2.0	2023-11-13
BA_ELX3202_Assembly	4	*Assembly	2.0	2023-11-13
BA_ELX3202_Layout	4	*Layout	1.0	2017-10-15
ELX3204-**-****				
ELX3202 and ELX3204	78	*Operating manual ELX3202 and ELX3204	1.6.0	2025-06-24
BA_ELX3204_Schematic	8	*Schematics	2.0	2023-11-13
BA_ELX3204_BOM	5	*BOM	2.0	2023-11-13
BA_ELX3204_Assembly	4	*Assembly	2.0	2023-11-13

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Document Number	Pages / Sheets	Document Title	Revision	Date
BA_ELX3204_Layout	4	*Layout	1.0	2017-10-15
ELX3252-**-****				
ELX3252	114	*Operating manual ELX3252	1.2.0	2025-06-24
BA_ELX3252_Schematic	8	*Schematics	1.0	2020-01-02
BA_ELX3252_BOM	5	*BOM	1.0	2020-07-03
BA_ELX3252_Assembly	4	*Assembly	1.0	2020-01
BA_ELX3252_Layout	4	*Layout	1.0	2020-07-03
ELX3312-**-****				
ELX3312 and ELX3314	91	*Operating manual ELX3312 and ELX3314	1.5.0	2025-06-24
BA_ELX3312_Schematic	8	*Schematics	2.0	2023-11-13
BA_ELX3312_BOM	4	*BOM	2.0	2023-11-13
BA_ELX3312_Assembly	4	*Assembly	2.0	2023-11-13
BA_ELX3312_Layout	4	*Layout	1.0	2017-10-15
ELX3314-**-****				
ELX3312 and ELX3314	91	*Operating manual ELX3312 and ELX3314	1.5.0	2025-06-24
BA_ELX3314_Schematic	8	*Schematics	2.0	2023-11-13
BA_ELX3314_BOM	5	*BOM	2.0	2023-11-13
BA_ELX3314_Assembly	4	*Assembly	2.0	2023-11-13
BA_ELX3314_Layout	4	Layout	1.0	2017-10-15
BA_ELX3314_TR_Rth-D620	7	*Prufung der Z-Dioden Belastung	2.0	2023-08-23
BA_ELX3314_TR_Rth-D700	7	*Prufung der Z-Dioden Belastung	2.0	2023-08-18
ELX3351-**-****				
ELX3351	87	*Operating manual ELX3351	1.7.0	2025-06-24
BA_ELX3351_Schematic	8	*Schematics	2.0	2021-10-05
BA_ELX3351_BOM	6	*BOM	2.0	2021-10-05
BA_ELX3351_Assembly	4	*Assembly	2.0	2021-10-05
BA_ELX3351_Layout	4	*Layout	2.0	2018-02-20
ELX4154-**-****				
ELX4154	114	*Operating manual ELX4154	1.4.0	2025-06-25
BA_ELX4154L_Schematic	7	*Schematics	1.1	2020-09-02
BA_ELX4154L_BOM	5	*BOM	1.0	2020-09-02
BA_ELX4154L_Assembly	4	*Assembly	1.0	2020-09-02

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Certificate No.: **ANZEx 20.3004X**	*Current Issue:* 1	*Date of Issue:* 2025-07-15

Document Number	Pages / Sheets	Document Title	Revision	Date
BA_ELX4154L_Layout	4	*Layout	1.0	2020-09-02
BA_ELX4154R_Schematic	5	*Schematics	1.1	2024-06-07
BA_ELX4154R_BOM	2	*BOM	1.1	2024-06-07
BA_ELX4154R_Assembly	6	*Assembly	1.1	2024-06-07
BA_ELX4154R_Layout	4	*Layout	1.0	2020-09-02
ELX4181-**-****				
ELX4181	116	*Operating manual ELX4181	2.2.0	2025-06-24
BA_ELX4181_Schematic	8	*Schematics	2.0	2024-06-07
BA_ELX4181_BOM	5	*BOM	2.0	2024-06-07
BA_ELX4181_Assembly	6	*Assembly	2.0	2024-06-07
BA_ELX4181_Layout	4	*Layout	1.0	2018-07-26
ELX5151-**-****				
ELX5151	150	*Operating manual ELX5151	1.7.0	2025-06-24
BA_ELX5151_Schematics	7	*Schematics	2.0	2024-06-07
BA_ELX5151_BOM	4	*BOM	2.0	2024-06-07
BA_ELX5151_Assembly	4	*Assembly	2.0	2024-06-07
BA_ELX5151_Layout	4	*Layout	2.0	2024-06-07

Note: An * is included before the title of documents that are new or revised.

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Additional Information:

I/O Terminal Series type ELX****-****-****
Instead of the *** in the complete denomination letters and numerals will be inserted which characterize the different modifications:

Type ELX * * * * - * * * * - * * * *

9560 Power supply terminal
9410 Power supply terminal for E-bus
1052 2-channel digital input terminal NAMUR
1054 4-channel digital input terminal NAMUR
1058 8-channel digital input terminal NAMUR
2002 2-channel digital output terminal
2008 8-channel digital output terminal
2792 2-channel solid state relay output, potential-free
3152 2-channel analog input terminal 0/4…20 mA
3158 8-channel analog input terminal 4…20 mA
3181 1-channel analog input terminal 4…20 mA, HART
3184 4-channel analog input terminal 4…20 mA, HART
3202 2-channel analog input terminal RTD
3204 4-channel analog input terminal RTD
3252 2-channel analog input terminal potentiometer. 16 bit
3312 2-channel analog input terminal thermocouple
3314 4-channel analog input terminal thermocouple
3351 1-channel analog input terminal strain gauge
4154 4-channel analog output terminal 4…20 mA
4181 1-channel analog output terminal 0/4…20 mA, HART
5151 1-channel incremental encoder interface NAMUR

Software variant
(Not Ex-relevant, for information purposes only)

EtherCAT revision
(Not Ex-relevant, for information purposes only)

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Register of Issues and Variations
includes the current issue

Issue 0 dated 2020-07-07

Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs: DE/BVS/ExTR18.0031/04, DEKRA

QAR No. & Issuing CB: DE/BVS/QAR16.0010/03, DEKRA

File Reference: 2019/016311

Issue 1 (current issue) dated 2025-07-25

Variations Included in this Issue

- The new signal terminals were introduced:
  2-channel analog input terminal potentiometer, 16 bit, Ex i, ELX3252***_****
  8-channel analog input terminal 0/4…20 mA, single-ended, 16 bit, ELX3158-****_****
  4-channel analog output terminal 0/4…20 mA, single-ended, 16 bit, ELX4154-****_****
  4-channel analog input terminal 4…20 mA HART, ELX3184-****_****
  2-channel solid state relay output, potential free terminal ELX2792-****_****

- A new hardware version of power supply terminal ELX9560 is introduced.
  Due to the design change, the output voltage of the new variant is limited to 27 V
  (the former variant's output voltage was limited to 27. 7 V).
  To be able to distinguish the variants with output voltages 27 V and 27. 7 V, the hardware version is marked on the power supply terminals:
  HW:xx where xx denotes the hardware version.
  Variants with hardware versions below 05 have output voltage 27.7 V.
  Variants with hardware versions 05 or above have output voltage 27 V.

- The following terminals were modified:
  o ELX1058 8-channel digital input terminal NAMUR, Ex i
  o ELX3158 8-channel analog input terminal 4 .. . 20 mA, single-ended, 16 bit, Ex i

- For the I/O-terminal series, the following terminals were redesigned:
  o 1-channel analog input terminal strain gauge type ELX3351-****-****
  o 8-channel digital output terminal, type ELX2008-****-****
  o 2-channel analog input terminal 4…20 mA, type ELX3152-****-****
  o 8-channel analog input terminal 4…20 mA, type ELX3158-****-****
  o 1-channel analog input terminal 4…20 mA, HART, type ELX3181-****-****
  o 4-channel analog input terminal 4…20 mA, HART, type ELX3184-****-****
  o 2-channel analog input terminal RTD, type ELX3202-****-****
  o 4-channel analog input terminal RTD, type ELX3204-****-****
  o 2-channel analog input terminal thermocouple, type ELX3312-****-****
  o 4-channel analog input terminal thermocouple, type ELX3314-****-****
  o 4-channel analog output terminal 4…20 mA, type ELX4154-****-****
  o 1-channel analog output terminal 4…20 mA, HART, type ELX4181-****-****
  o 1-channel incremental encoder interface NAMUR, type ELX5151-****-****

Certificate of Conformity
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Certificate No.: **ANZEx 20.3004X**	*Current Issue:* 1	*Date of Issue:* 2025-07-15

- Approval for use of separately certified EtherCAT extension type EK1110.
- Documentation update.

Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs:	DE/BVS/ExTR18.0031/05-10, DEKRA
QAR No. & Issuing CB:	DE/BVS/QAR16.0010/09, DEKRA
File Reference:	2024/017777