



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEX DEK 16.0078X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 6	Issue 5 (2023-03-29)
Date of Issue:	2023-12-04		Issue 4 (2020-07-09)
Applicant:	Beckhoff Automation GmbH & Co. KG Hülsthorstweg 20 33415 Verl Germany		Issue 3 (2019-07-16)
Equipment:	Fieldbus Components Type BK ..., Type BC ..., Type KL ..., Type KS ..., Type EK ..., Type EKM ..., Type EL ... and Type ES ...		Issue 2 (2018-06-08)
Optional accessory:			Issue 1 (2017-06-13)
Type of Protection:	Ex ec		Issue 0 (2017-01-30)
Marking:	Ex ec IIC T4 Gc		

Approved for issue on behalf of the IECEx
Certification Body:

R. Schuller

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

2023-12-04

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Date of issue: 2023-12-04

Issue No: 6

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

Manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

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
Edition:7.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[NL/DEK/ExTR16.0109/06](#)

Quality Assessment Report:

[DE/BVS/QAR16.0010/07](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Fieldbus Components Type BK ..., Type BC ..., Type KL ..., Type KS ..., Type EK ..., Type EKM ..., Type EL ... and Type ES ... for use in I/O and Fieldbus systems.

The type code, the ambient temperature range and the temperature class of the modules shall be taken from Table 1, see Annex 1.

Electrical data

The electrical data of the supply and the input and output circuits shall be taken from Table 1, see Annex 1.

SPECIFIC CONDITIONS OF USE: YES as shown below:

The Fieldbus Components shall only be used in an area of not more than pollution degree 2, as defined in IEC 60664-1.

The Fieldbus Components shall be installed in a suitable enclosure providing a degree of protection of at least IP54 according to IEC 60079-0, taking into account the environmental conditions under which the equipment will be used.

Provisions shall be made to prevent the rated voltages from being exceeded by transient disturbances of more than 119 V.

The Fieldbus Components may only be removed or inserted when the system supply and the field supply are switched off, or when the location is known to be non-hazardous.

The Fieldbus Components may only be disconnected or connected when the system supply is switched off, or when the location is known to be non-hazardous.

Address selectors and ID switches may only be adjusted when the system supply is switched off, or when the location is known to be non-hazardous.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Type BC added to equipment field
Minor constructional changes.

Annex:

[228088300 Annex 1.pdf](#)

Annex 1 to NL/DEK/ExTR16.0109/06 and IECEx DEK 16.0078X
Table 1

Description	Type/Beckhoff No.	Temp. code	Ambient Range	Technical Data	Supply Volt.
Lightbus Bus Coupler for up to 64 Bus Terminals	BK2000	T4	-25...+60°C	---	24Vdc
Lightbus Bus Coupler for up to 64 digital Bus Terminals	BK2010	T4	-25...+60°C	---	24Vdc
Lightbus "Economy plus" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)	BK2020	T4	-25...+60°C	---	24Vdc
	BK3000	T4	-25...+60°C	---	24Vdc
PROFIBUS DP Bus Coupler for up to 64 digital Bus Terminals, 1.5 Mbaud	BK3010	T4	-25...+60°C	---	24Vdc
PROFIBUS DP/FMS Bus Coupler for up to 64 Bus Terminals, 12 Mbaud	BK3100	T4	-25...+60°C	---	24Vdc
PROFIBUS DP Bus Coupler for up to 64 digital Bus Terminals, 12 Mbaud	BK3110	T4	-25...+60°C	---	24Vdc
PROFIBUS DP "Economy plus" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension), 12 Mbaud	BK3120	T4	-25...+60°C	---	24Vdc
PROFIBUS DP "Compact" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension), 12 Mbaud	BK3150	T4	-25...+60°C	---	24Vdc
PROFIBUS DP Bus Coupler with fibre optic connection for up to 64 Bus Terminals, 1.5 Mbaud	BK3500	T4	-25...+60°C	---	24Vdc
PROFIBUS DP "Economy plus" Bus Coupler with fibre optic connection for up to 64 Bus Terminals(255 with K-bus extension), 12 Mbaud	BK3520	T4	-25...+60°C	---	24Vdc
PROFIBUS DP "Low Cost" Bus Coupler for up to 64 digital Bus Terminals, 12 Mbaud	LC3100	T4	-25...+60°C	---	24Vdc
Interbus Bus Coupler for up to 64 Bus Terminals	BK4000	T4	-25...+60°C	---	24Vdc
Interbus Bus Coupler for up to 64 digital Bus Terminals	BK4010	T4	-25...+60°C	---	24Vdc
Interbus "Economy plus" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)	BK4020	T4	-25...+60°C	---	24Vdc
Interbus Bus Coupler with fibre optic connection for up to 64 Bus Terminals	BK4500	T4	-25...+60°C	---	24Vdc
CANopen Bus Coupler for up to 64 digital Bus Terminals	BK5110	T4	-25...+60°C	---	24Vdc
CANopen "Economy plus" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)	BK5120	T4	-25...+60°C	---	24Vdc
CANopen "Compact" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)	BK5150	T4	-25...+60°C	---	24Vdc
CANopen "Low Cost" Bus Coupler version for up to 64 digital Bus Terminals (255 with K-bus extension)	LC5100	T4	-25...+60°C	---	24Vdc
CANopen "Compact" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension), Bus connection: D-sub plug, 9-pin instead of open style connector	BK5151	T4	-25...+60°C	---	24Vdc
DeviceNet Bus Coupler for up to 64 Bus Terminals	BK5200	T4	-25...+60°C	---	24Vdc

Annex 1 to NL/DEK/ExTR16.0109/06 and IECEx DEK 16.0078X

DeviceNet Bus Coupler for up to 64 digital Bus Terminals	BK5210	T4	-25...+60°C	---	24Vdc
DeviceNet "Economy plus" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)	BK5220	T4	-25...+60°C	---	24Vdc
DeviceNet "Compact" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)	BK5250	T4	-25...+60°C	---	24Vdc
DeviceNet "Low Cost" Bus Coupler for up to 64 digital Bus Terminals (255 with K-bus extension)	LC5200	T4	-25...+60°C	---	24Vdc
ControlNet Bus Coupler for up to 64 Bus Terminals	BK7000	T4	-25...+60°C	---	24Vdc
CC-Link "Compact" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)	BK7150	T4	-25...+60°C	---	24Vdc
Modbus Bus Coupler for up to 64 Bus Terminals	BK7300	T4	-25...+60°C	---	24Vdc
Modbus "Compact" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)	BK7350	T4	-25...+60°C	---	24Vdc
Fipio "Economy plus" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)	BK7420	T4	-25...+60°C	---	24Vdc
SERCOS interface Bus Coupler for up to 64 Bus Terminals, 2.4 Mbaud	BK7500	T4	-25...+60°C	---	24Vdc
SERCOS interface "Economy plus" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension) 2, 4, 8, 16 Mbaud	BK7520	T4	-25...+60°C	---	24Vdc
RS485 Bus Coupler for up to 64 Bus Terminals	BK8000	T4	-25...+60°C	---	24Vdc
RS232 Bus Coupler for up to 64 Bus Terminals	BK8100	T4	-25...+60°C	---	24Vdc
Ethernet TCP/IP Bus Coupler for up to 64 Bus Terminals; Ethernet protocols TwinCAT ADS, Modbus TCP, Beckhoff real-time Ethernet	BK9000	T4	-25...+60°C	---	24Vdc
Ethernet TCP/IP "Compact" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)	BK9050	T4	-25...+60°C	---	24Vdc
PROFINET "Compact" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)	BK9053	T4	-25...+60°C	---	24Vdc
EtherNet/IP "Compact" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)	BK9055	T4	-25...+60°C	---	24Vdc
Ethernet TCP/IP Bus Coupler for up to 64 Bus Terminals (with integrated 2-channel switch); Ethernet protocols TwinCAT ADS, Modbus TCP, Beckhoff real-time Ethernet	BK9100	T4	-25...+60°C	---	24Vdc
PROFINET Bus Coupler for up to 64 Bus Terminals (with integrated 2-channel switch)	BK9103	T4	-25...+60°C	---	24Vdc
EtherNet/IP Bus Coupler for up to 64 Bus Terminals (with integrated 2-channel switch)	BK9105	T4	-25...+60°C	---	24Vdc
USB Bus Coupler for up to 64 Bus Terminals	BK9500	T4	-25...+60°C	---	24Vdc
Bus Terminal Controller with integrated IEC 61131-3 PLC, 32 kbytes program memory, Lightbus interface	BC2000	T4	-25...+60°C	---	24Vdc

Annex 1 to NL/DEK/ExTR16.0109/06 and IECEx DEK 16.0078X

Bus Terminal Controller with integrated IEC 61131-3 PLC, 32 kbytes program memory, PROFIBUS DP interface, 12 Mbaud	BC3100	T4	-25...+60°C	---	24Vdc
"Compact" Bus Terminal Controller with integrated IEC 61131-3 PLC, 48 kbytes program memory, PROFIBUS DP interface, 12 Mbaud	BC3150	T4	-25...+60°C	---	24Vdc
Bus Terminal Controller with integrated IEC 61131-3 PLC, 32 kbytes program memory, Interbus interface	BC4000	T4	-25...+60°C	---	24Vdc
"Compact" Bus Terminal Controller with integrated IEC 61131-3 PLC, 48 kbytes program memory, CANopen interface, 1 Mbaud	BC5150	T4	-25...+60°C	---	24Vdc
"Compact" Bus Terminal Controller with integrated IEC 61131-3 PLC, 48 kbytes program memory, DeviceNet interface, 500 kbaud	BC5250	T4	-25...+60°C	---	24Vdc
Bus Terminal Controller with integrated IEC 61131-3 PLC, 32 kbytes program memory, Modbus interface	BC7300	T4	-25...+60°C	---	24Vdc
Bus Terminal Controller with integrated IEC 61131-3 PLC, 32 kbytes program memory, RS485 interface	BC8000	T4	-25...+60°C	---	24Vdc
Bus Terminal Controller with integrated IEC 61131-3 PLC, 32 kbytes program memory, RS485 interface	BC8050	T4	-25...+60°C	---	24Vdc
Bus Terminal Controller with integrated IEC 61131-3 PLC, 32 kbytes program memory, RS232C interface	BC8100	T4	-25...+60°C	---	24Vdc
Bus Terminal Controller with integrated IEC 61131-3 PLC, 32 kbytes program memory, RS232C interface	BC8150	T4	-25...+60°C	---	24Vdc
Bus Terminal Controller with integrated IEC 61131-3 PLC, 64 kbytes program memory, Ethernet TCP/IP interface; Ethernet protocols TwinCAT ADS, Modbus TCP	BC9000	T4	-25...+60°C	---	24Vdc
"Compact" Bus Terminal Controller with integrated IEC 61131-3 PLC, 48 kbytes program memory, Ethernet TCP/IP interface; Ethernet protocols TwinCAT ADS, Modbus TCP	BC9050	T4	-25...+60°C	---	24Vdc
"Economy plus" Bus Terminal Controller with integrated IEC 61131-3 PLC, 128 kbytes program memory, Ethernet TCP/IP interface; Ethernet protocols TwinCAT ADS, Modbus TCP	BC9020	T4	-25...+60°C	---	24Vdc
"Economy plus" Bus Terminal Controller with integrated IEC 61131-3 PLC, 128 kbytes program memory, Ethernet TCP/IP interface and integrated 2-channel switch; Ethernet protocols TwinCAT ADS, Modbus TCP	BC9120	T4	-25...+60°C	---	24Vdc
Bus Terminal Controller with integrated IEC 61131-3 PLC, 64 kbytes program memory, Ethernet TCP/IP interface and integrated 2-channel switch; Ethernet protocols TwinCAT ADS, Modbus TCP	BC9100	T4	-25...+60°C	---	24Vdc
2-channel digital input terminal 24 V DC, filter 3.0 ms, 4-wire system	KL/KS1002	T4	-25...+60°C	24Vdc	---

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2-channel digital input terminal 24 V DC, filter 0.2 ms, 4-wire system	KL/KS1012	T4	-25...+60°C	24Vdc	---
2-channel digital input terminal 48 V DC, filter 3.0 ms, 4-wire system	KL/KS1032	T4	-25...+60°C	48Vdc	---
2-channel digital input terminal 24 V DC, positive/negative switching, filter 3.0 ms, 4-wire system	KL/KS1052	T4	-25...+60°C	24Vdc	---
4-channel digital input terminal 24 V DC, filter 3.0 ms	KL/KS1104	T4	-25...+60°C	24Vdc	---
4-channel digital input terminal 24 V DC, filter 0.2 ms, 2 inputs 3-wire system, 2 inputs 1-wire system	KL/KS1114	T4	-25...+60°C	24Vdc	---
4-channel digital input terminal 5 V DC, filter 0.2 ms	KL/KS1124	T4	-25...+60°C	5Vdc	---
4-channel digital input terminal 24 V DC, positive/negative switching, filter 3.0 ms, 2 inputs 3-wire system, 2 inputs 1-wire system	KL/KS1154	T4	-25...+60°C	24Vdc	---
4-channel digital input terminal 24 V DC, positive/negative switching, filter 0.2 ms, 2 inputs 3-wire system, 2 inputs 1-wire system	KL/KS1164	T4	-25...+60°C	24Vdc	---
4-channel digital input terminal 24 V DC, negative switching, filter 3.0 ms, 2 inputs 3-wire system, 2 inputs 1-wire system	KL/KS1184	T4	-25...+60°C	24Vdc	---
4-channel digital input terminal 24 V DC, negative switching, filter 0.2 ms, 2 inputs 3-wire system, 2 inputs 1-wire system	KL/KS1194	T4	-25...+60°C	24Vdc	---
2-channel digital input terminal 24 V DC, with short-circuit proof sensor supply and diagnostics, filter 3.0 ms, 2 inputs 3-wire system, 4 bit input and 2 bit output	KL/KS1212	T4	-25...+60°C	24Vdc	---
2-channel digital input terminal 24 V DC, filter 0.2 ms, 4-wire system with edge triggered puls expansion 100 ms	KL/KS1232	T4	-25...+60°C	24Vdc	---
2-channel digital input terminal 24 V DC for 2-wire sensors type 2, EN 61131-2, filter 3.0 ms 2 inputs 2-wire system, 2 bit inputs	KL/KS1302	T4	-25...+60°C	24Vdc	---
4-channel digital input terminal 24 V DC for 2-wire sensors type 2, EN 61131-2, filter 3.0 ms	KL/KS1304	T4	-25...+60°C	24Vdc	---
2-channel digital input terminal 24 V DC for 2-wire sensors type 2, EN 61131-2, filter 0.2 ms 2 inputs 2-wire system, 2 bit inputs	KL/KS1312	T4	-25...+60°C	24Vdc	---
4-channel digital input terminal 24 V DC for 2-wire sensors type 2, EN 61131-2, filter 0.2 ms 4 inputs 2-wire system, 4 bit inputs	KL/KS1314	T4	-25...+60°C	24Vdc	---
2-channel digital input terminal 24 V DC for NAMUR sensors, 2-wire connection	KL/KS1352	T4	-25...+60°C	24Vdc	---
2-channel digital input terminal for break-in alarm, filter 3.0 ms	KL/KS1362	T4	-25...+60°C	24Vdc	---
2-channel digital input terminal thermistor, filter 30 ms	KL/KS1382	T4	-25...+60°C	24Vdc	---
2-channel digital input terminal 24 V DC for 2-wire sensors type 3, EN 61131-2, filter 3.0 ms	KL/KS1402	T4	-25...+60°C	24Vdc	---
4-channel digital input terminal 24 V DC for 2-wire sensors type 3, IEC 61131-2, filter 3.0 ms	KL/KS1404	T4	-25...+60°C	24Vdc	---

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8-channel digital input terminal 24 V DC, IEC 61131-2, type 3, filter 3.0 ms, 1-wire-system	KL/KS1408	T4	-25...+60°C	24Vdc	---
2-channel digital input terminal 24 V DC for 2-wire sensors type 3, EN 61131-2, filter 0.2 ms	KL/KS1412	T4	-25...+60°C	24Vdc	---
4-channel digital input terminal 24 V DC for 2-wire sensors type 3, IEC 61131-2, filter 0.2 ms	KL/KS1414	T4	-25...+60°C	24Vdc	---
8-channel digital input terminal 24 V DC, IEC 61131-2, type 3, filter 0.2 ms	KL/KS1418	T4	-25...+60°C	24Vdc	---
4-channel digital input terminal 24 V DC for 2-wire sensors type 2, EN 61131-2, filter 0.2 ms, 6 mA, 2-wire system	KL/KS1434	T4	-25...+60°C	24Vdc	---
8-channel digital input terminal 24 V DC, filter 3.0 ms, 1-wire system, negative switching	KL/KS1488	T4	-25...+60°C	24Vdc	---
8-channel digital input terminal 24 V DC, filter 0.2 ms, 1-wire system, negative switching	KL/KS1498	T4	-25...+60°C	24Vdc	---
up/down counter 24 V DC, 100 kHz, 32 bit counter	KL/KS1501	T4	-25...+60°C	24Vdc	---
2-channel, up/down counter, 24 V DC, 1 kHz, 16 bit counter	KL/KS1512	T4	-25...+60°C	24Vdc	---
2-channel digital input terminal 120 V AC to 230 V AC, 4-wire system	KL/KS1702	T4	-25...+60°C	120...230Vac	---
2-channel digital input terminal 120 V AC/DC, 4-wire system	KL/KS1712	T4	-25...+60°C	120...230Vac	---
2-channel digital input terminal 120 V AC to 230 V AC, without power contacts, 4-wire system	KL/KS1722	T4	-25...+60°C	120...230Vac	---
HD Bus Terminals, 4-channel digital input 24 V DC, 3-wire connection, filter 3.0 ms	KL1804	T4	-25...+60°C	24Vdc	---
HD Bus Terminal, 8-channel digital input 24 V DC, 2-wire connection	KL1808	T4	-25...+60°C	24Vdc	---
HD Bus Terminals, 16-channel digital input 24 V DC, filter 3.0 ms	KL1809	T4	-25...+60°C	24Vdc	---
HD Bus Terminals, 4-channel digital input 24 V DC, 3-wire connection, filter 0.2 ms	KL1814	T4	-25...+60°C	24Vdc	---
HD Bus Terminals, 16-channel digital input 24 V DC, filter 0.2 ms	KL1819	T4	-25...+60°C	24Vdc	---
HD Bus Terminal, 8-channel digital input + 8-channel digital output 24 V DC	KL1859	T4	-25...+60°C	24Vdc	---
16-channel digital input terminals 24 V DC, type 3, flat-ribbon cable connection, filter 3.0 ms	KL1862	T4	-25...+60°C	24Vdc	---
16-channel digital input 24 V DC, 3.0 ms, flat-ribbon cable connection, switching to ground potential	KL1862-0010	T4	-25...+60°C	24Vdc	---
16-channel digital input terminals 24 V DC, type 3, flat-ribbon cable connection, filter 0.2 ms	KL1872	T4	-25...+60°C	24Vdc	---
HD Bus Terminal, 16-channel digital input 24 V DC, 0 V (ground) switching	KL1889	T4	-25...+60°C	24Vdc	---
4-channel digital input terminal, TwinSAFE, 24 V DC	KL1904	T4	-25...+60°C	24Vdc	---
2-channel digital output terminal 24 V DC, 0.5 A, 4-wire system	KL/KS2012	T4	-25...+60°C	24Vdc/0,5A	---
2-channel digital output terminal 24 V DC, 2.0 A, 4-wire system	KL/KS2022	T4	-25...+60°C	24Vdc/2A	---

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2-channel digital output terminal 24 V DC, 0.5 A with polarity protection, 4-wire system	KL/KS2032	T4	-25...+60°C	24Vdc/0,5A	---
4-channel digital output terminal 24 V DC, 0.5 A,	KL/KS2114	T4	-25...+60°C	24Vdc/0,5A	---
4-channel digital output terminal 5 V DC, 0.02 A,	KL/KS2124	T4	-25...+60°C	5Vdc	---
4-channel digital output terminal 24 V DC, 0.5 A with polarity protection	KL/KS2134	T4	-25...+60°C	24Vdc/0,5A	---
4-channel digital output terminal 24 V DC, negative switching, 0.5 A	KL/KS2184	T4	-25...+60°C	24Vdc/0,5A	---
2-channel digital output terminal 24 V DC, 0.5 A, 4-wire system	KL/KS2212	T4	-25...+60°C	24Vdc/0,5A	---
4-channel digital output terminal 24 V DC, 0.5 A with polarity protection, 2-wire system	KL/KS2404	T4	-25...+60°C	24Vdc/0,5A	---
8-channel digital output terminal 24V DC, 0.5 A	KL/KS2408	T4	-25...+60°C	24Vdc/0,5A	---
4-channel digital output terminal 24 V DC, 2 A with polarity protection, 2-wire system	KL/KS2424	T4	-25...+60°C	24Vdc/2A	---
8-channel digital output terminal 24 V DC, 0.5 A, total current 3 A, 1-wire system, negative switching	KL/KS2488	T4	-25...+60°C	24Vdc/0,5A	---
2-channel pulse width output terminal 24 V DC, 0.1 A, 4-wire system	KL/KS2502	T4	-25...+60°C	24Vdc	---
2-channel pulse width output terminal 24 V DC, 1 A, 4-wire system, switching to negative potential	KL/KS2512	T4	-25...+60°C	24Vdc/0,5A	---
1-channel pulse train output terminal, 2 RS422 outputs (5 V level)	KL/KS2521	T4	-25...+60°C	5Vdc	---
2-channel triac output terminal 12...230V AC, 0,5A	KL/KS2712	T4	-25...+60°C	230Vac/0,5A	---
2-channel solid state load relay up to 230 V AC/DC, 0,3 A	KL/KS2702	T4	-25...+60°C	230Vac/0,3A	---
2-channel triac output terminal 12...230V AC, 0,5A	KL/KS2712	T4	-25...+60°C	230Vac/0,5A	---
2-channel triac output terminal 12...230 V AC, 1 A with mutually locked outputs	KL/KS2722	T4	-25...+60°C	230Vac/1A	---
4-channel digital output terminal 24 V AC/DC, 1 A, short-circuit-proof	KL/KS2784	T4	-25...+60°C	30Vac, 48Vdc / 1A	---
4-channel digital output terminal 24 V AC/DC, 1 A, potential-free, short-circuit-proof	KL/KS2794	T4	-25...+60°C	30Vac, 48Vdc / 1A	---
HD EtherCAT Terminal, 8-channel digital output 24 V DC, 0.5 A	KL2808	T4	-25...+60°C	24Vdc/0,5A	---
HD EtherCAT Terminal, 16-channel digital output 24 V DC, 0.5 A	KL2809	T4	-25...+60°C	24Vdc/0,5A	---
16-channel digital output terminal 24 V DC, 0.5 A, flat-ribbon cable connection	KL2872	T4	-25...+60°C	24Vdc/0,5A	---
16-channel digital output terminal 24 V DC, 0.5 A, flat-ribbon cable connection, switching to ground potential	KL2872-0010	T4	-25...+60°C	24Vdc/0,5A	---
HD EtherCAT Terminal, 16-channel digital output 24 V DC, 0.5 A, 0 V (ground) switching	KL2889	T4	-25...+60°C	24Vdc/0,5A	---
4-channel digital output terminal, TwinSAFE, 24 V DC, 0.5 A	KL2904	T4	-25...+60°C	24Vdc/0,5A	---
1-channel analog input terminal -10 V...+10 V, differential input, 12 bit	KL/KS3001	T4	-25...+60°C	-10V...+10V	---
2-channel analog input terminal -10 V...+10 V, differential input, 12 bit	KL/KS3002	T4	-25...+60°C	-10V...+10V	---
1-channel analog input terminal 0...20 mA, differential input, 12 bit	KL/KS3011	T4	-25...+60°C	0...20mA	---

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2-channel analog input terminal 0...20 mA, differential input, 12 bit	KL/KS3012	T4	-25...+60°C	0...20mA	---
1-channel analog input terminal 4...20 mA, differential input, 12 bit	KL/KS3021	T4	-25...+60°C	4...20mA	---
2-channel analog input terminal 4...20 mA, differential input, 12 bit	KL/KS3022	T4	-25...+60°C	4...20mA	---
1-channel loop-powered input terminal 0...20 mA, with power supply for transducers via power contacts, 12 bit	KL/KS3041	T4	-25...+60°C	0...20mA	---
2-channel loop-powered input terminal 0...20 mA, with power supply for transducers via power contacts, 12 bit	KL/KS3042	T4	-25...+60°C	0...20mA	---
4-channel analog input terminal 0...20 mA, 12 bit	KL/KS3044	T4	-25...+60°C	0...20mA	---
1-channel loop-powered input terminal 4...20 mA, with power supply for transducers via power contacts, 12 bit	KL/KS3051	T4	-25...+60°C	4...20mA	---
2-channel loop-powered input terminal 4...20 mA, with power supply for transducers via power contacts, 12 bit	KL/KS3052	T4	-25...+60°C	4...20mA	---
4-channel analog input terminal 4...20 mA, 12 bit	KL/KS3054	T4	-25...+60°C	4...20mA	---
1-channel analog input terminal 0...10 V, single-ended, 12 bit	KL/KS3061	T4	-25...+60°C	0...10V	---
2-channel analog input terminal 0...10 V, single-ended, 12 bit	KL/KS3062	T4	-25...+60°C	0...10V	---
4-channel analog input terminal 0...10 V, single-ended, 12 bit	KL/KS3064	T4	-25...+60°C	0...10V	---
2-channel analog input terminal -10 V...+10 V, differential input, 16 bit	KL/KS3102	T4	-25...+60°C	-10V...+10V	---
2-channel analog input terminal 0...20 mA, differential input, 16 bit	KL/KS3112	T4	-25...+60°C	0...20mA	---
2-channel analog input terminal 4...20 mA, differential input, 16 bit	KL/KS3122	T4	-25...+60°C	4...20mA	---
2-channel analog input terminal -10 V...+10 V, differential input, 16 bit, ±0,05 % accuracy	KL/KS3132	T4	-25...+60°C	-10V...+10V	---
2-channel analog input terminal 0...20 mA, differential input, 16 bit, ±0,05 % accuracy	KL/KS3142	T4	-25...+60°C	0...20mA	---
2-channel analog input terminal 4...20 mA, differential input, 16 bit, ±0,05 % accuracy	KL/KS3152	T4	-25...+60°C	4...20mA	---
2-channel analog input terminal 0...10 V, differential input, 16 bit, ±0,05 % accuracy	KL/KS3162	T4	-25...+60°C	0...10V	---
2-channel analog input terminal 0...2 V, differential input, 16 bit, ±0,05 % accuracy	KL/KS3172	T4	-25...+60°C	0...2V	---
2-channel analog input terminal -2 V...2 V, differential input, 16 bit, ±0,05 % accuracy	KL/KS3182	T4	-25...+60°C	-2V...+2V	---
1-channel input terminal PT100 (RTD) for resistance sensors, 16 bit, 3-wire system	KL/KS3201	T4	-25...+60°C	PT100 (RTD)	---
2-channel input terminal PT100 (RTD) for resistance sensors, 16 bit, 3-wire system	KL/KS3202	T4	-25...+60°C	PT100 (RTD)	---
4-channel input terminal PT100 (RTD) for resistance sensors, 16 bit, 2-wire system	KL/KS3204	T4	-25...+60°C	PT100 (RTD)	---
HD Bus Terminal, 8-channel input terminal PT1000, Ni1000 (RTD)	KL3208-0010	T4	-25...+60°C	PT1000, Ni1000 (RTD)	---
2-channel input terminal PT100 (RTD) for 4-wire connection, high-precision	KL/KS3222	T4	-25...+60°C	PT100 (RTD)	---
8-channel input terminal PT1000, Ni1000 (RTD) for resistance sensors, resolution	KL/KS3228	T4	-25...+60°C	PT1000, Ni1000 (RTD)	---

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0.1 °C, 1-wire system					
1-channel thermocouple input terminal, preset to type K, with wire breakage detection, 16 bit	KL3311	T4	-25...+60°C	Thermocouple	---
2-channel thermocouple input terminal, preset to type K, with wire breakage detection, 16 bit	KL3312	T4	-25...+60°C	Thermocouple	---
4-channel thermocouple input terminal, preset to type K, with wire breakage detection, 16 bit	KL3314	T4	-25...+60°C	Thermocouple	---
1-channel resistor bridge input terminal (strain gauge), 16 bit	KL/KS3351	T4	-25...+60°C	Resistor bridge	---
1-channel accurate resistance bridge evaluation, with self-calibration, 16 bit	KL/KS3356	T4	-25...+60°C	Resistor bridge	---
1-channel oscilloscope terminal, -20 mV...20 mV, 100 µs sampling time, decentralised analog value processing	KL/KS3361	T4	-25...+60°C	-20mV...+20mV	---
2-channel oscilloscope terminal, -10 V...+10 V, 100 µs sampling time, decentralised analog value processing	KL/KS3362	T4	-25...+60°C	-10V...+10V	---
4-channel analog input terminal -10 V...+10 V, 12 bit, 4 x 2-wire system	KL/KS3404	T4	-25...+60°C	-10V...+10V	---
8-channel analog input terminal -10 V...+10 V, 12 bit, 1-wire system	KL/KS3408	T4	-25...+60°C	-10V...+10V	---
4-channel analog input terminal 0...20 mA, 12 bit, 4 x 2-wire system	KL/KS3444	T4	-25...+60°C	0...20mA	---
8-channel analog input terminal 0...20 mA, 12 bit, 1-wire system	KL/KS3448	T4	-25...+60°C	0...20mA	---
4-channel analog input terminal 4...20 mA, 12 bit, 4 x 2-wire system	KL/KS3454	T4	-25...+60°C	4...20mA	---
8-channel analog input terminal 4...20 mA, 12 bit, 1-wire system	KL/KS3458	T4	-25...+60°C	4...20mA	---
4-channel analog input terminal 0...10 V, 12 bit, 4 x 2-wire system	KL/KS3464	T4	-25...+60°C	0...10V	---
8-channel analog input terminal 0...10 V, 12 bit, 1-wire system	KL/KS3468	T4	-25...+60°C	0...10V	---
1-channel analog output terminal 0...10 V, 12 bit	KL/KS4001	T4	-25...+60°C	0...10V	---
2-channel analog output terminal 0...10 V, 12 bit	KL/KS4002	T4	-25...+60°C	0...10V	---
4-channel analog output terminal 0...10 V, 12 bit	KL/KS4004	T4	-25...+60°C	0...10V	---
1-channel analog output terminal 0...20 mA, 12 bit	KL/KS4011	T4	-25...+60°C	0...20mA	---
2-channel analog output terminal 0...20 mA, 12 bit	KL/KS4012	T4	-25...+60°C	0...20mA	---
1-channel analog output terminal 4...20 mA, 12 bit	KL/KS4021	T4	-25...+60°C	4...20mA	---
2-channel analog output terminal 4...20 mA, 12 bit	KL/KS4022	T4	-25...+60°C	4...20mA	---
1-channel analog output terminal -10 V...+10 V, 12 bit	KL/KS4031	T4	-25...+60°C	-10V...+10V	---
2-channel analog output terminal -10 V...+10 V, 12 bit	KL/KS4032	T4	-25...+60°C	-10V...+10V	---
4-channel analog output terminal -10 V...+10 V, 12 bit	KL/KS4034	T4	-25...+60°C	-10V...+10V	---
2-channel analog output terminal 0...20 mA, 16 bit	KL/KS4112	T4	-25...+60°C	0...20mA	---
2-channel analog output terminal -10 V...+10 V, 16 bit	KL/KS4132	T4	-25...+60°C	-10V...+10V	---
4-channel analog output terminal 0...10 V, 12 bit, 4 x 2-wire system	KL/KS4404	T4	-25...+60°C	0...10V	---

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8-channel analog output terminal 0...10 V, 12 bit, 1-wire system	KL/KS4408	T4	-25...+60°C	0...10V	---
4-channel analog output terminal 0...20 mA, 12 bit, 4 x 2-wire system	KL/KS4414	T4	-25...+60°C	0...20mA	---
8-channel analog output terminal 0...20 mA, 12 bit, 1-wire system	KL/KS4418	T4	-25...+60°C	0...20mA	---
4-channel analog output terminal 4...20 mA, 12 bit, 4 x 2-wire system	KL/KS4424	T4	-25...+60°C	4...20mA	---
8-channel analog output terminal 4...20 mA, 12 bit, 1-wire system	KL/KS4428	T4	-25...+60°C	4...20mA	---
4-channel analog output terminal -10 V...+10 V, 12 bit, 4 x 2-wire system	KL/KS4434	T4	-25...+60°C	-10V...+10V	---
8-channel analog output terminal -10 V...+10 V, 12 bit, 1-wire system	KL/KS4438	T4	-25...+60°C	-10V...+10V	---
2-channel analog input, 2-channel analog output terminal -10 V...+10 V, 12 bit	KL/KS4494	T4	-25...+60°C	-10V...+10V	---
SSI sensor interface	KL/KS5001	T4	-25...+60°C	---	---
SSI sensor interface bidirectional for digifas® drives	KL/KS5051	T4	-25...+60°C	---	---
Incremental encoder interface with complementary inputs	KL/KS5101	T4	-25...+60°C	---	---
Incremental encoder interface with single inputs	KL/KS5111	T4	-25...+60°C	---	---
Incremental encoder interface with programmable outputs	KL/KS5121	T4	-25...+60°C	---	---
1-channel incremental encoder interface, 32 bit	KL/KS5151	T4	-25...+60°C	---	---
2-Kanal-Inkremental-Encoder-Interface, 32 Bit	KL/KS5152	T4	-25...+60°C	---	---
Serial interface RS232, 9.6 kbaud	KL/KS6001	T4	-25...+60°C	---	---
Serial interface TTY, 20 mA current loop	KL/KS6011	T4	-25...+60°C	20mA	---
Serial interface RS422/RS485, 9.6 kbaud	KL/KS6021	T4	-25...+60°C	---	---
Serial interface RS232, 115.2 kbaud	KL/KS6031	T4	-25...+60°C	---	---
Serial interface RS422/RS485, 115.2 kbaud	KL/KS6041	T4	-25...+60°C	---	---
Data exchange terminal with serial interface, 32 bit	KL/KS6051	T4	-25...+60°C	---	---
AS-Interface master terminal	KL/KS6201	T4	-25...+60°C	---	---
EIB Bus Terminal	KL/KS6301	T4	-25...+60°C	---	---
LON Bus Terminal	KL/KS6401	T4	-25...+60°C	---	---
MP-Bus master terminal	KL/KS6771	T4	-25...+60°C	---	---
DSI/DALI master and power supply terminal	KL/KS6811	T4	-25...+60°C	---	---
TwinSAFE Logic Bus Terminal with 4 digital outputs 24 V DC, 0.5 A	KL6904	T4	-25...+60°C	24Vdc/0,5A	---
Bus end terminal	KL9010	T4	-25...+60°C	---	---
Terminal bus extension, end terminal at KL9050	KL9020	T4	-25...+60°C	---	---
Terminal bus extension, coupler terminal from KL9020 or KL9050	KL9050	T4	-25...+60°C	---	---
Shield terminal, 8 x shield	KL/KS9070	T4	-25...+60°C	---	---
Isolation terminal	KL9080	T4	-25...+60°C	---	---
Power supply terminal, 24 V DC	KL/KS9100	T4	-25...+60°C	24Vdc	---
Power supply terminal with diagnostics, 24 V DC	KL/KS9110	T4	-25...+60°C	24Vdc	---
Potential distribution terminal with 2 clamps per power contact	KL/KS9180	T4	-25...+60°C	---	---
HD Bus Terminal, 16-channel potential distribution, 8x 24V contact, 8x 0V contact	KL9184	T4	-25...+60°C	24Vdc	---
Potential distribution terminal with 4 clamps per power contact	KL/KS9185	T4	-25...+60°C	---	---

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Potential distribution terminal, 8 x 24 V DC	KL/KS9186	T4	-25...+60°C	24Vdc	---
Potential distribution terminal, 8 x 0 V	KL/KS9187	T4	-25...+60°C	---	---
HD Bus Terminal, 16-channel potential distribution, 16x 24V contact	KL9188	T4	-25...+60°C	24Vdc	---
HD Bus Terminal, 16-channel potential distribution, 16x 0v contact	KL9189	T4	-25...+60°C	---	---
Power supply terminal for any voltage up to 230 V, without LED	KL/KS9190	T4	-25...+60°C	Up to 230V	---
Shield terminal, potential distribution terminal with connection to earth	KL/KS9195	T4	-25...+60°C	---	---
Power supply terminal with fuse, 24 V DC	KL9200	T4	-25...+60°C	24Vdc	---
Power supply terminal with fuse and diagnostics, 24 V DC	KL9210	T4	-25...+60°C	24Vdc	---
Power supply terminal with fuse, 125 V AC...230 V AC	KL9250	T4	-25...+60°C	125Vac...230Vac	---
Power supply terminal with fuse and diagnostics, 230 V AC	KL9260	T4	-25...+60°C	230Vac	---
Power supply terminal, up to 400 V AC	KL9290	T4	-25...+60°C	Up to 400Vac	---
Diode array terminal, 4 potential-free diodes, 1 A, to 1000 V AC/DC	KL/KS9300	T4	-25...+60°C	---	---
Diode array terminal, 7 diodes (common cathode), 1 A, to 1000 V AC/DC	KL/KS9301	T4	-25...+60°C	---	---
Diode array terminal, 7 diodes (common anode), 1 A, to 1000 V AC/DC	KL/KS9302	T4	-25...+60°C	---	---
Power supply unit terminal for the K-bus, 24 V DC, 2 A	KL/KS9400	T4	-25...+60°C	24Vdc/2A	---
Power supply unit terminal 24 V DC, output 5 V DC, 0,5 A	KL/KS9505	T4	-25...+60°C	24Vdc, output 5Vdc/0,5A	---
Power supply unit terminal 24 V DC, output 8 V DC, 0,5 A	KL/KS9508	T4	-25...+60°C	24Vdc, output 8Vdc/0,5A	---
Power supply unit terminal 24 V DC, output 10 V DC, 0,5 A	KL/KS9510	T4	-25...+60°C	24Vdc, output 10Vdc/0,5A	---
Power supply unit terminal 24 V DC, output 12 V DC, 0,5 A	KL/KS9512	T4	-25...+60°C	24Vdc, output 12Vdc/0,5A	---
Power supply unit terminal 24 V DC, output 15 V DC, 0,5 A	KL/KS9515	T4	-25...+60°C	24Vdc, output 15Vdc/0,5A	---
Surge filter field supply	KL/KS9540	T4	-25...+60°C	---	---
Surge filter system and field supply	KL/KS9550	T4	-25...+60°C	---	---
Power supply unit terminal 24V DC, 0.1A	KL/KS9560	T4	-25...+60°C	24Vdc/0,1A	---
Buffer capacitor terminal	KL/KS9570	T4	-25...+60°C	---	---
EtherCAT "Economy plus" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)	BK1120	T4	-25...+60°C	---	24Vdc
EtherCAT "Compact" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)	BK1150	T4	-25...+60°C	---	24Vdc
EtherCAT "Compact" Coupler between EtherCAT Terminals (E-bus) and Bus Terminals (K-bus), adapter terminal	BK1250	T4	-25...+60°C	---	24Vdc
EtherCAT Coupler	EK1100	T4	-25...+60°C	---	24Vdc
EtherCAT Coupler with ID switch for E-bus terminals (ELxxxx)	EK1101	T4	-25...+60°C	---	24Vdc
2-port EtherCAT junction	EK1122	T4	-25...+60°C	---	24Vdc
2-port EtherCAT junction with M8 connection	EK1122-0008	T4	-25...+60°C	---	24Vdc
EtherCAT extension for EK1000 or EK1100	EK1110	T4	-25...+60°C	---	24Vdc
EtherCAT Coupler with ID switch, multimode fibre optic for E-bus terminals (ELxxxx)	EK1501	T4	-25...+60°C	---	24Vdc

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EtherCAT Coupler with ID switch, singlemode fibre optic for E-bus terminals (ELxxxx)	EK1501-0010	T4	-25...+60°C	---	24Vdc
EtherCAT Coupler with ID switch, media converter (multimode fibre optic IN, RJ45 OUT), for E-bus terminals (ELxxxx)	EK1501-0100	T4	-25...+60°C	---	24Vdc
1-port EtherCAT multi-mode fibre optic junction	EK1521	T4	-25...+60°C	---	24Vdc
PROFIBUS Bus Coupler	EK3100	T4	-25...+60°C	---	24Vdc
CANopen Bus Coupler	EK5100	T4	-25...+60°C	---	24Vdc
DeviceNet Bus Coupler	EK5200	T4	-25...+60°C	---	24Vdc
Ethernet Bus Coupler	EK9000	T4	-25...+60°C	---	24Vdc
PROFINET RT Bus Coupler	EK9300	T4	-25...+60°C	---	24Vdc
PROFINET IRT Bus Coupler	EK9310	T4	-25...+60°C	---	24Vdc
EtherNet/IP Bus Coupler	EK9500	T4	-25...+60°C	---	24Vdc
SERCOS III Bus Coupler	EK9700	T4	-25...+60°C	---	24Vdc
EtherCAT Coupler with ID switch and diagnostics	EKM1101	T4	-25...+60°C	---	24Vdc
2-channel digital input terminal 24 V DC, 3 ms	EL/ES1002	T4	-25...+60°C	24Vdc	---
4-channel digital input terminal 24 V DC, 3 ms	EL/ES1004	T4	-25...+60°C	24Vdc	---
8-channel digital input terminal 24 V DC, 3 ms	EL/ES1008	T4	-25...+60°C	24Vdc	---
2-channel digital input terminal 24 V DC, filter 10 µs, 3-wire system	E/ESL1012	T4	-25...+60°C	24Vdc	---
4-channel digital input terminal 24 V DC, filter 10 µs, 2-wire system	EL/ES1014	T4	-25...+60°C	24Vdc	---
8-channel digital input terminal 24 V DC, filter 10 µs, 1-wire system	EL/ES1018	T4	-25...+60°C	24Vdc	---
4-channel digital input terminal 24 V DC for type 2 sensors, IEC 61131-2, filter 3.0 ms, 2-wire system	EL/ES1024	T4	-25...+60°C	24Vdc	---
4-channel digital input terminal 24 V DC for type 1 sensors, IEC 61131-2, potential-free inputs, filter 10 µs	EL/ES1034	T4	-25...+60°C	24Vdc	---
2-channel digital input terminal NAMUR	EL/ES1052	T4	-25...+60°C	---	---
4-channel digital input terminal NAMUR	EL/ES1054	T4	-25...+60°C	---	---
4-channel digital input terminal 24 V DC, negative switching, filter 3.0 ms, 2-wire system	EL/ES1084	T4	-25...+60°C	24Vdc	---
8-channel digital input terminal 24 V DC, negative switching, filter 3.0 ms, 1-wire system	EL/ES1088	T4	-25...+60°C	24Vdc	---
4-channel digital input terminal 24 V DC, negative switching, filter 10 µs, 2-wire system	EL/ES1094	T4	-25...+60°C	24Vdc	---
8-channel digital input terminal 24 V DC, negative switching, filter 10 µs, 1-wire system	EL/ES1098	T4	-25...+60°C	24Vdc	---
4-channel digital input terminal 24 V DC, filter 3.0 ms, 2 inputs 3-wire system, 2 inputs 1-wire system	EL/ES1104	T4	-25...+60°C	24Vdc	---
4-channel digital input terminal 24 V DC, filter 10 µs, 2 inputs 3-wire system, 2 inputs 1-wire system	EL/ES1114	T4	-25...+60°C	24Vdc	---
4-channel digital input terminal 5 V DC, filter 10 µs, 2 inputs 3-wire system, 2 inputs 1-wire system	EL/ES1124	T4	-25...+60°C	5Vdc	---

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4-channel digital input terminal 48 V DC, filter 10 μ s, 2 inputs 3-wire system, 2 inputs 1-wire system	EL/ES1134	T4	-25...+60°C	48Vdc	---
4-channel digital input terminal 12 V DC, filter 10 μ s, 2 inputs 3-wire system, 2 inputs 1-wire system	EL/ES1144	T4	-25...+60°C	12Vdc	---
2-channel digital input terminal 24 V DC, TON/TOFF 1 μ s	EL/ES1202	T4	-25...+60°C	24Vdc	---
2-channel digital input terminal 24 V DC, filter 1 μ s, with time stamp	EL/ES1252	T4	-25...+60°C	24Vdc	---
2-channel digital input terminal with oversampling	EL/ES1262	T4	-25...+60°C	24Vdc	---
Up/down counter 24 V DC, 100 kHz, 32 bit counter depth	EL/ES1502	T4	-25...+60°C	24Vdc	---
2-channel, up/down counter, 24 V DC, 1 kHz, 16 bit counter	EL/ES1512	T4	-25...+60°C	24Vdc	---
HD EtherCAT Terminals, 4-channel digital input 24 V DC, 3-wire connection, filter 3.0 ms	EL1804	T4	-25...+60°C	24Vdc	---
HD EtherCAT Terminal, 8-channel digital input 24 V DC, 2-wire connection	EL1808	T4	-25...+60°C	24Vdc	---
HD EtherCAT Terminals, 16-channel digital input 24 V DC, filter 3.0 ms	EL1809	T4	-25...+60°C	24Vdc	---
HD EtherCAT Terminals, 4-channel digital input 24 V DC, 3-wire connection, filter 10 μ s	EL1814	T4	-25...+60°C	24Vdc	---
HD EtherCAT Terminals, 16-channel digital input 24 V DC, filter 10 μ s	EL1819	T4	-25...+60°C	24Vdc	---
HD EtherCAT Terminal, 8-channel digital input + 8-channel digital output 24 V DC	EL1859	T4	-25...+60°C	24Vdc	---
HD EtherCAT Terminal, 16-channel digital input 24 V DC, 0 V (ground) switching	EL1889	T4	-25...+60°C	24Vdc	---
4-channel digital input terminal, TwinSAFE, 24 V DC	EL1904	T4	-25...+60°C	24Vdc	---
8-channel digital input terminal, TwinSAFE, 24 V DC, TwinSAFE Logic	EL1918	T4	-25...+60°C	24Vdc	---
2-channel digital output terminal 24 V DC, 0.5 A, 3-wire system	EL/ES2002	T4	-25...+60°C	24Vdc/0,5A	---
4-channel digital output terminal 24 V DC, 0.5 A, 2-wire system	EL/ES2004	T4	-25...+60°C	24Vdc/0,5A	---
8-channel digital output terminal 24 V DC, 0.5 A	EL/ES2008	T4	-25...+60°C	24Vdc/0,5A	---
4-channel digital output terminal 24 V DC, 0.5 A, with diagnostics	EL2014	T4	-25...+60°C	24Vdc/0,5A	---
2-channel digital output terminal 24 V DC, 2 A	EL/ES2022	T4	-25...+60°C	24Vdc/2A	---
4-channel digital output terminal 24 V DC, 2 A, 2-wire system	EL/ES2024	T4	-25...+60°C	24Vdc/2A	---
4-channel digital output terminal 12 V DC, 2 A, 2-wire system	EL2024-0010	T4	-25...+60°C	12Vdc/2A	---
2-channel digital output terminal 24 V DC, 2 A, with diagnostics, 3-wire system	EL/ES2032	T4	-25...+60°C	24Vdc/2A	---
4-channel digital output terminal 24 V DC, 2 A, with diagnostics, 2-wire system	EL/ES2034	T4	-25...+60°C	24Vdc/2A	---
4-channel digital output terminal 24 V DC, negative switching, 0.5 A, 2-wire system	EL/ES2084	T4	-25...+60°C	24Vdc/0,5A	---
8-channel digital output terminal 24 V DC, 0.5 A, total current 3 A, negative switching, 1-wire system	EL/ES2088	T4	-25...+60°C	24Vdc/0,5A	---
4-channel digital output terminal 5V DC	EL/ES2124	T4	-25...+60°C	5Vdc	---

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2-channel digital output terminal 24 V DC, TON/TOFF 1 μ s, push-pull outputs	EL/ES2202	T4	-25...+60°C	24Vdc/0,5A	---
2-channel digital output terminal 24 V DC, 0.5 A, 4-wire system, high-speed outputs with time stamp	EL/ES2252	T4	-25...+60°C	24Vdc/0,5A	---
2-channel digital output terminal 24 V DC, 0.5 A, 4-wire system, high-speed outputs with oversampling	EL/ES2262	T4	-25...+60°C	24Vdc/0,5A	---
2-channel pulse width output terminal 24 V DC, 1 A, 4-wire system	EL/ES2502	T4	-25...+60°C	24Vdc/1A	---
1-channel pulse train output terminal, 2 RS422 outputs (5 V level)	EL/ES2521	T4	-25...+60°C	24Vdc	---
1-channel pulse train output terminal, 2 outputs 24 V DC (supplied from an external source)	EL/ES2521-0024	T4	-25...+60°C	24Vdc	---
2-channel pulse width current terminals 24 V DC	EL/ES2535-0002	T4	-25...+60°C	24Vdc/ \pm 2A	---
2-channel pulse width current terminal 24 V DC, 5 A	EL2535-0005	T4	-25...+60°C	24Vdc/ \pm 5A	---
2-channel pulse width current terminal 24 V DC, 50 mA	EL2535-0050	T4	-25...+60°C	24Vdc/ \pm 50mA	---
EtherCAT Terminal, 2-channel PWM output, 12...48 V DC, 3 A, current-controlled	EL2535-0103	T4	-25...+60°C	12Vdc...48Vdc/3A	---
4-channel digital output terminal 30 V AC/DC, 2 A, solid state	EL2794	T4	-25...+60°C	30Vac/2A 30Vdc/2A	---
HD EtherCAT Terminal, 8-channel digital output 24 V DC, 0.5 A	EL2808	T4	-25...+60°C	24Vdc/0,5A	---
HD EtherCAT Terminal, 16-channel digital output 24 V DC, 0.5 A	EL2809	T4	-25...+60°C	24Vdc/0,5A	---
HD EtherCAT Terminal, 16-channel digital output 24 V DC, 0.5 A, 0 V (ground) switching	EL2889	T4	-25...+60°C	24Vdc/0,5A	---
4-channel digital output terminal, TwinSAFE, 24 V DC, 0.5 A	EL2904	T4	-25...+60°C	24Vdc/0,5A	---
1-channel analog input terminal -10 V...+10 V, single-ended, 12 bit	EL/ES3001	T4	-25...+60°C	-10V...+10V	---
2-channel analog input terminal -10 V...+10 V, single-ended, 12 bit	EL/ES3002	T4	-25...+60°C	-10V...+10V	---
4-channel analog input terminal -10 V...+10 V, single-ended, 12 bit, 4 x 2-wire system	EL/ES3004	T4	-25...+60°C	-10V...+10V	---
8-channel analog input terminal -10 V...+10 V, single-ended, 12 bit, 1-wire system	EL/ES3008	T4	-25...+60°C	-10V...+10V	---
1-channel analog input terminal 0...20 mA, differential input, 12 bit	EL/ES3011	T4	-25...+60°C	0...20mA	---
2-channel analog input terminal 0...20 mA, differential input, 12 bit	EL/ES3012	T4	-25...+60°C	0...20mA	---
4-channel analog input terminal 0...20 mA, differential input, 12 bit	EL/ES3014	T4	-25...+60°C	0...20mA	---
1-channel analog input terminal 4...20 mA, differential input, 12 bit	EL/ES3021	T4	-25...+60°C	4...20mA	---
2-channel analog input terminal 4...20 mA, differential input, 12 bit	EL/ES3022	T4	-25...+60°C	4...20mA	---
4-channel analog input terminal 4...20 mA, differential input, 12 bit	EL/ES3024	T4	-25...+60°C	4...20mA	---
1-channel analog supply terminal 0...20 mA, single-ended, 12 bit	EL/ES3041	T4	-25...+60°C	0...20mA	---
2-channel analog supply terminal 0...20 mA, single-ended, 12 bit	EL/ES3042	T4	-25...+60°C	0...20mA	---
4-channel analog input terminal 0...20 mA, single-ended, 12 bit	EL/ES3044	T4	-25...+60°C	0...20mA	---

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8-channel analog input terminal 0...20 mA, single-ended, 12 bit, 1-wire system	EL/ES3048	T4	-25...+60°C	0...20mA	---
1-channel analog supply terminal 4...20 mA, single-ended, 12 bit	EL/ES3051	T4	-25...+60°C	4...20mA	---
2-channel analog supply terminal 4...20 mA, single-ended, 12 bit	EL/ES3052	T4	-25...+60°C	4...20mA	---
4-channel analog input terminal 4...20 mA, single-ended, 12 bit, 4 x 2-wire system	EL/ES3054	T4	-25...+60°C	4...20mA	---
8-channel analog input terminal 4...20 mA, single-ended, 12 bit, 1-wire system	EL/ES3058	T4	-25...+60°C	4...20mA	---
1-channel analog input terminal 0...10 V, single-ended, 12 bit	EL/ES3061	T4	-25...+60°C	0...10V	---
2-channel analog input terminal 0...10 V, single-ended, 12 bit	EL/ES3062	T4	-25...+60°C	0...10V	---
2-channel analog input terminal 0...30 V, single-ended, 12 bit	EL3062-0030	T4	-25...+60°C	0...30V	---
4-channel analog input terminal 0...10 V, single-ended, 12 bit, 4 x 2-wire system	EL/ES3064	T4	-25...+60°C	0...10V	---
8-channel analog input terminal 0...10 V, single-ended, 12 bit, 1-wire system	EL/ES3068	T4	-25...+60°C	0...10V	---
1-channel analog input terminal -10 V...+10 V, differential input, 16 bit	EL/ES3101	T4	-25...+60°C	-10V...+10V	---
2-channel analog input terminal -10 V...+10 V, differential input, 16 bit	EL/ES3102	T4	-25...+60°C	-10V...+10V	---
4-channel analog input terminal -10 V...+10 V, differential input, 16 bit	EL/ES3104	T4	-25...+60°C	-10V...+10V	---
1-channel analog input terminal 0...20 mA, differential input, 16 bit	EL/ES3111	T4	-25...+60°C	0...20mA	---
2-channel analog input terminal 0...20 mA, differential input, 16 bit	EL/ES3112	T4	-25...+60°C	0...20mA	---
4-channel analog input terminal 0...20 mA, differential input, 16 bit	EL/ES3114	T4	-25...+60°C	0...20mA	---
1-channel analog input terminal 4...20 mA, differential input, 16 bit	EL/ES3121	T4	-25...+60°C	4...20mA	---
2-channel analog input terminal 4...20 mA, differential input, 16 bit	EL/ES3122	T4	-25...+60°C	4...20mA	---
4-channel analog input terminal 4...20 mA, differential input, 16 bit	EL/ES3124	T4	-25...+60°C	4...20mA	---
1-channel analog supply terminal 0...20 mA, single-ended, 16 bit	EL/ES3141	T4	-25...+60°C	0...20mA	---
2-channel analog supply terminal 0...20 mA, single-ended, 16 bit	EL/ES3142	T4	-25...+60°C	0...20mA	---
4-channel analog input terminal 0...20 mA, single-ended, 16 bit, 4 x 2-wire system	EL/ES3144	T4	-25...+60°C	0...20mA	---
1-channel analog supply terminal 4...20 mA, single-ended, 16 bit	EL/ES3151	T4	-25...+60°C	4...20mA	---
2-channel analog supply terminal 4...20 mA, single-ended, 16 bit	EL/ES3152	T4	-25...+60°C	4...20mA	---
4-channel analog input terminal 4...20 mA, single-ended, 16 bit, 4 x 2-wire system	EL/ES3154	T4	-25...+60°C	4...20mA	---
1-channel analog input terminal 0...10 V, single-ended, 16 bit	EL/ES3161	T4	-25...+60°C	0...10V	---
2-channel analog input terminal 0...10 V, single-ended, 16 bit	EL/ES3162	T4	-25...+60°C	0...10V	---
4-channel analog input terminal 0...10 V, single-ended, 16 bit, 4 x 2-wire system	EL/ES3164	T4	-25...+60°C	0...10V	---
4-channel analog input, -10/0...+10 V, -20/0/+4...+20 mA, 16 bit	EL3174	T4	-25...+60°C	-10/0...+10 V, -20/0/+4...+20 mA	---

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4-channel analog input, -10/0...+10 V, -20/0/+4...+20 mA, electrically isolated, 16 bit	EL3174-0002	T4	-25...+60°C	10/0...+10 V, -20/0/+4...+20 mA	---
4-channel analog input terminal, -3...+3 V, -20/0/+4...+20 mA, electrically isolated, 16 bit	EL3174-0032	T4	-25...+60°C	-3...+3 V, -20/0/+4...+20 mA	---
2-channel analog input terminal 4...20 mA, single-ended, 16 bit, HART	EL/ES3182	T4	-25...+60°C	4...20mA	---
1-channel input terminal PT100 (RTD) for resistance sensors, 16 bit, 4-wire system	EL/ES3201	T4	-25...+60°C	PT100 (RTD)	---
1-channel input terminals PT100 (RTD) for 2-, 3- or 4-wire connection, high-precision	EL3201-0010	T4	-25...+60°C	PT100 (RTD)	---
1-channel input terminals PT100 (RTD) for 2-, 3- or 4-wire connection, high-precision, with calibration certificate	EL3201-0020	T4	-25...+60°C	PT100 (RTD)	---
2-channel input terminal PT100 (RTD) for resistance sensors, 16 bit, 2-, 3-wire system	EL/ES3202	T4	-25...+60°C	PT100 (RTD)	---
2-channel input terminal PT100 (RTD) for 4-wire connection, high-precision	EL3202-0010	T4	-25...+60°C	PT100 (RTD)	---
4-channel input terminal PT100 (RTD) for resistance sensors, 16 bit, 2-wire system	EL/ES3204	T4	-25...+60°C	PT100 (RTD)	---
HD EtherCAT Terminal, 5-channel input, potentiometer measurement with sensor supply	EL3255	T4	-25...+60°C	0...10V	---
1-channel thermocouple input terminal, preset to type K, with wire breakage detection, 16 bit	EL3311	T4	-25...+60°C	Thermocouple	---
2-channel thermocouple input terminal, preset to type K, with wire breakage detection, 16 bit	EL3312	T4	-25...+60°C	Thermocouple	---
4-channel thermocouple input terminal with open-circuit recognition	EL3314	T4	-25...+60°C	Thermocouple	---
HD EtherCAT Terminal, 8-channel thermocouple input with open-circuit recognition	EL3318	T4	-25...+60°C	Thermocouple	---
1-channel resistor bridge input terminal (strain gauge), 16 bit	EL/ES3351	T4	-25...+60°C	Resistor bridge	---
1-channel input terminal, accurate resistance bridge evaluation, with self-calibration, 16 bit	EL/ES3356	T4	-25...+60°C	Resistor bridge	---
1-channel precise load cell analysis (resistor bridge), 24 bit	EL3356-0010	T4	-25...+60°C	Resistor bridge	---
2-channel analog input terminal -10...+10V, differential inputs, 24 bit	EL/ES3602	T4	-25...+60°C	-10V...+10V	---
2-channel analog input terminal -75...+75 mV, differential input, 24 bit	EL3602-0010	T4	-25...+60°C	-75mV...+75mV	---
2-channel analog input terminal 0...20 mA, differential input, 24 bit	EL/ES3612	T4	-25...+60°C	0...20mA	---
2-channel analog input terminal, ±5 V, for Condition Monitoring (IEPE)	EL3632	T4	-25...+60°C	---	---
2-channel resistance measurement terminal 10 mΩ...10 MΩ, high-precision	EL3692	T4	-25...+60°C	Resistance measurement	---
2-channel analog input terminal -10...+10 V with oversampling	EL/ES3702	T4	-25...+60°C	-10V...+10V	---
2-channel analog input terminal 0...20 mA, differential inputs, 16 bit, oversampling	EL/ES3742	T4	-25...+60°C	0...20mA	---
1-channel analog input terminal, 24 bit, oversampling, parameterisable: ±30/10/5/2.5/1.25 V, ±640/320/160/80/40/20/10/5 mV, 0...5/10	EL3751	T4	-25...+60°C	Various signal level inputs	---

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V, ± 20 mA, 0/4...20 mA, NAMUR NE43, 0...5 k Ω , RTD PT100/PT1000, Ni, KTY, $\frac{1}{4}$ bridge (350 Ω + 120 Ω), $\frac{1}{2}$ bridge (± 16 mV/V), full bridge (± 32 mV/V), potentiometer ≥ 1 k Ω					
1-channel analog output terminal 0...10 V, 12 bit	EL/ES4001	T4	-25...+60°C	0...10V	---
2-channel analog output terminal 0...10 V, 12 bit	EL/ES4002	T4	-25...+60°C	0...10V	---
4-channel analog output terminal 0...10 V, 12 bit	EL/ES4004	T4	-25...+60°C	0...10V	---
8-channel analog output terminal 0...10 V, 12 bit	EL/ES4008	T4	-25...+60°C	0...10V	---
1-channel analog output terminal 0...20 mA, 12 bit	EL/ES4011	T4	-25...+60°C	0...20mA	---
2-channel analog output terminal 0...20 mA, 12 bit	EL/ES4012	T4	-25...+60°C	0...20mA	---
4-channel analog output terminal 0...20 mA, 12 bit	EL/ES4014	T4	-25...+60°C	0...20mA	---
8-channel analog output terminal 0...20 mA, 12 bit, 1-wire system	EL/ES4018	T4	-25...+60°C	0...20mA	---
1-channel analog output terminal 4...20 mA, 12 bit	EL/ES4021	T4	-25...+60°C	4...20mA	---
2-channel analog output terminal 4...20 mA, 12 bit	EL/ES4022	T4	-25...+60°C	4...20mA	---
4-channel analog output terminal 4...20 mA, 12 bit, 4 x 2-wire system	EL/ES4024	T4	-25...+60°C	4...20mA	---
8-channel analog output terminal 4...20 mA, 12 bit, 1-wire system	EL/ES4028	T4	-25...+60°C	4...20mA	---
1-channel analog output terminal -10 V...+10 V, 12 bit	EL/ES4031	T4	-25...+60°C	-10V...+10V	---
2-channel analog output terminal -10 V...+10 V, 12 bit	EL/ES4032	T4	-25...+60°C	-10V...+10V	---
4-channel analog output terminal -10 V...+10 V, 12 bit, 4 x 2-wire system	EL/ES4034	T4	-25...+60°C	-10V...+10V	---
8-channel analog output terminal -10 V...+10 V, 12 bit, 1-wire system	EL/ES4038	T4	-25...+60°C	-10V...+10V	---
2-channel analog output terminal 0...10 V, 16 bit	EL/ES4102	T4	-25...+60°C	0...10V	---
4-channel analog output terminal 0...10 V, 16 bit	EL/ES4104	T4	-25...+60°C	0...10V	---
2-channel analog output terminal 0...20 mA, 16 bit	EL/ES4112	T4	-25...+60°C	0...20mA	---
2-channel analog output terminal -10...+10 mA, 16 bit	EL/ES4112-0010	T4	-25...+60°C	-10mA...+10mA	---
4-channel analog output terminal 0...20 mA, 16 bit	EL/ES4114	T4	-25...+60°C	0...20mA	---
2-channel analog output terminal 4...20 mA, 16 bit	EL/ES4122	T4	-25...+60°C	4...20mA	---
4-channel analog output terminal 4...20 mA, 16 bit	EL/ES4124	T4	-25...+60°C	4...20mA	---
2-channel analog output terminal -10 V...+10 V, 16 bit	EL/ES4132	T4	-25...+60°C	-10V...+10V	---
4-channel analog output terminal -10 V...+10 V, 16 bit	EL/ES4134	T4	-25...+60°C	-10V...+10V	---
2-channel analog output terminal 0...20 mA with oversampling	EL/ES4712	T4	-25...+60°C	0...20mA	---
2-channel analog output terminal -10...+10 V with oversampling	EL/ES4732	T4	-25...+60°C	-10V...+10V	---
SSI encoder interface	EL/ES5001	T4	-25...+60°C	---	---
1-channel SSI monitor terminal	EL5001-0011	T4	-25...+60°C	---	---

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2-channel SSI encoder interface	EL/ES5002	T4	-25...+60°C	---	---
1-channel SinCos encoder interface, 1 VSS	EL/ES5021	T4	-25...+60°C	---	---
Incremental encoder interface with differential input, 16 bit	EL/ES5101	T4	-25...+60°C	---	---
1-channel incremental encoder interface, 32 bit	EL/ES5151	T4	-25...+60°C	---	---
2-channel incremental encoder interface, 32 bit	EL/ES5152	T4	-25...+60°C	---	---
Serial interface RS232	EL/ES6001	T4	-25...+60°C	---	---
2-channel serial interfaces RS232, D-sub connection	EL6002	T4	-25...+60°C	---	---
Serial interface RS422/RS485	EL/ES6021	T4	-25...+60°C	---	---
Serial Communication terminal, 1 channel, RS485, timestamp receive	EL6021-1001	T4	-25...+60°C	---	---
2-channel serial interfaces RS422/RS485, D-sub connection	EL6022	T4	-25...+60°C	---	---
License key terminal for TwinCAT 3.1	EL6070	T4	-25...+60°C	---	---
EtherCAT memory terminal 128 kbyte	EL6080	T4	-25...+60°C	---	---
IO-Link terminal	EL/ES6224	T4	-25...+60°C	---	---
EtherCAT Terminal, 1-channel communication interface, ASi, master	EL/ES6201	T4	-25...+60°C	---	---
Ethernet switch port terminal	EL6601	T4	-25...+60°C	---	---
4-port Ethernet Switch terminal	EL6614	T4	-25...+60°C	---	---
PROFINET IO controller terminal	EL6631	T4	-25...+60°C	---	---
ROFINET IO device terminal	EL6631-0010	T4	-25...+60°C	---	---
PROFINET IRT controller	EL6632	T4	-25...+60°C	---	---
IEEE 1588 external synchronisation interface	EL6688	T4	-25...+60°C	---	---
EtherCAT bridge terminal	EL6692	T4	-25...+60°C	---	24Vdc
Lightbus master terminal	EL6720	T4	-25...+60°C	---	---
PROFIBUS master terminal	EL6731	T4	-25...+60°C	---	---
PROFIBUS slave terminal	EL6731-0010	T4	-25...+60°C	---	---
Interbus slave terminal	EL6740	T4	-25...+60°C	---	---
CANopen master terminal	EL6751	T4	-25...+60°C	---	---
CANopen slave terminal	EL6751-0010	T4	-25...+60°C	---	---
DeviceNet master terminal	EL6752	T4	-25...+60°C	---	---
DeviceNet slave terminal	EL6752-0010	T4	-25...+60°C	---	---
DMX master terminal	EL/ES6851	T4	-25...+60°C	---	---
TwinSAFE Logic Terminal	EL6900	T4	-25...+60°C	---	---
EtherCAT Terminal communication interface, TwinSAFE Logic	EL6910	T4	-25...+60°C	---	---
E-bus end terminal	EL9010	T4	-25...+60°C	---	---
Bus end cap	EL9011	T4	-25...+60°C	---	---
Isolation terminal	EL9080	T4	-25...+60°C	---	---
Passive potential feed terminal, 24 V DC	EL/ES9100	T4	-25...+60°C	24Vdc/10A	---
Power supply terminal with diagnostics, 24 V DC	EL/ES9110	T4	-25...+60°C	24Vdc	---
Power supply terminal, 230 V AC	KL/KS9150	T4	-25...+60°C	230Vac	---
Power supply terminal with diagnostics, 230 V AC	KL/KS9160	T4	-25...+60°C	230Vac	---
Potential distribution terminal with 2 clamps per power contact	EL/ES9180	T4	-25...+60°C	---	---
Potential distribution terminal, 8 x 2 potentials	EL9181	T4	-25...+60°C	---	---
HD Bus Terminal, 16-channel potential distribution, 8x 24V contact, 8x 0V contact	EL9184	T4	-25...+60°C	24Vdc	---

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Potential distribution terminal with 4 clamps per power contact	EL/ES9185	T4	-25...+60°C	---	---
Potential distribution terminal, 8 x 24 V DC	EL/ES9186	T4	-25...+60°C	24Vdc	---
Potential distribution terminal, 8 x 0 V	EL/ES9187	T4	-25...+60°C	---	---
HD Bus Terminal, 16-channel potential distribution, 16x 24V contact	EL9188	T4	-25...+60°C	24Vdc	---
HD Bus Terminal, 16-channel potential distribution, 16x 0v contact	EL9189	T4	-25...+60°C	---	---
shield terminal	EL/ES9195	T4	-25...+60°C	---	---
Power supply terminal with fuse, 24 V DC	EL9200	T4	-25...+60°C	24Vdc	---
Power supply terminal with fuse and diagnostics, 24 V DC	EL9210	T4	-25...+60°C	24Vdc	---
Overcurrent protection terminal, 24 V DC, 2-channel, max. Σ 10 A, adjustable, extended functionalities	EL9227-5500	T4	-25...+60°C	24Vdc/10A	---
Power supply terminal for E-bus, 24 V DC, 2 A	EL/ES9400	T4	-25...+60°C	24Vdc/2A	---
Power supply terminal for E-bus, 24 V DC, 2 A with diagnostics	EL/ES9410	T4	-25...+60°C	24Vdc/2A	---
Power supply unit terminal 24 V DC, output 5 V DC, 0.5 A	EL/ES9505	T4	-25...+60°C	24Vdc, output 5Vdc/0,5A	---
Power supply unit terminal 24 V DC, output 8 V DC, 0.5 A	EL/ES9508	T4	-25...+60°C	24Vdc, output 8Vdc/0,5A	---
Power supply unit terminal 24 V DC, output 10 V DC, 0.5 A	EL/ES9510	T4	-25...+60°C	24Vdc, output 10Vdc/0,5A	---
Power supply unit terminal 24 V DC, output 12 V DC, 0.5 A	EL/ES9512	T4	-25...+60°C	24Vdc, output 12Vdc/0,5A	---
Power supply unit terminal 24 V DC, output 15 V DC, 0.5 A	EL/ES9515	T4	-25...+60°C	24Vdc, output 15Vdc/0,5A	---
AS-Interface potential feed terminal with filter	EL9520	T4	-25...+60°C	---	---
Surge filter field supply	EL/ES9540	T4	-25...+60°C	---	---
System terminal, surge filter and field supply	EL/ES9540-0010	T4	-25...+60°C	---	---
System terminal, surge filter system and field supply	EL/ES9550	T4	-25...+60°C	---	---
Buffer capacitor terminal	EL/ES9570	T4	-25...+60°C	---	---