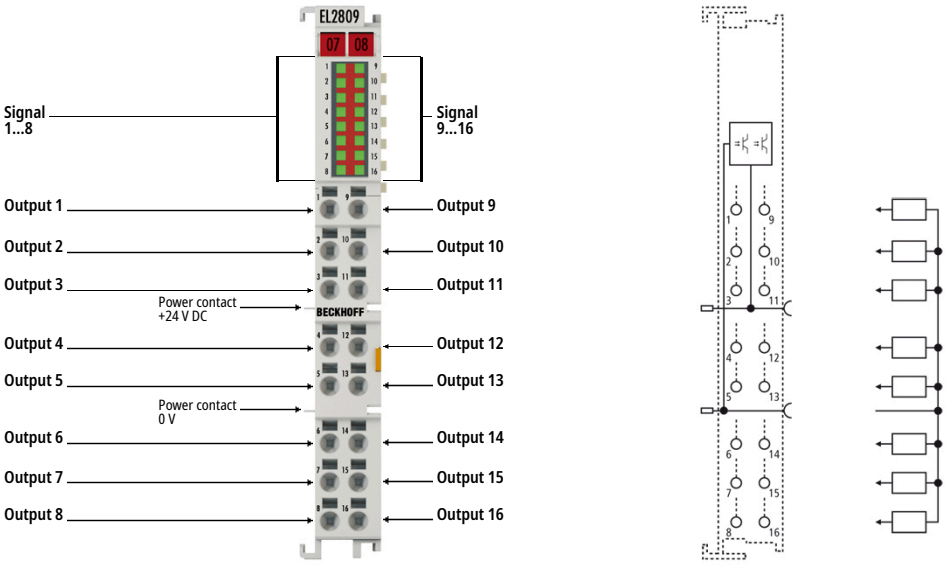
EL2809 | EtherCAT Terminal, 16-channel digital output, 24 V DC, 0.5 A

Image similar, may contain optional accessories



EL2809 | EtherCAT Terminal, 16-channel digital output, 24 V DC, 0.5 A

Product status: regular delivery

The EL2809 digital output terminal connects the binary 24 V DC control signals from the automation device on to the actuators at the process level with electrical isolation. The EtherCAT Terminal has 16 channels, whose signal states are indicated by LEDs. The power contacts are connected through. The connection technology is particularly suitable for single-ended inputs. All components have to use the same reference point as the EL2809. In the EL2809 the outputs are supplied via the 24 V DC power contact.

Special features:

- connection of different load types possible (resistive, inductive, lamp load)
- max. output current 0.5 A per channel
- overload and short-circuit proof outputs and reverse polarity protection
- tool-free connection by direct plug-in technology for solid wire conductors
- space-saving use in the control cabinet
- direct connection of multi-channel actuators in 1-wire connection technology in the smallest space
- increased packing density with 16 connection points in the housing of a 12 mm terminal block

Product information

Technical data

Technical data	EL2809
Connection technology	1-wire

Technical data	EL2809
Number of outputs	16
Nominal voltage	24 V DC (-15%/+20%)
Load type	resistive, inductive, lamp load
Distributed clocks	–
Max. output current	0.5 A (short-circuit proof) per channel
Short-circuit current	typ. < 2 A
Reverse polarity protection	yes
Switching-off energy	< 150 mJ/channel
Switching times	typ. TON: 60 µs, typ. TOFF: 300 µs
Current consumption E-bus	typ. 140 mA
Current consumption power contacts	typ. 35 mA + load
Bit width in the process image	16 outputs
Configuration	no address or configuration setting
Electrical isolation	500 V (E-bus/field potential)
Weight	approx. 70 g
Operating temperature	-25...+60°C
Storage temperature	-40...+85°C
Relative humidity	95%, no condensation
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protect. rating/installation pos.	IP20/variable
Approvals/markings	CE, CCC, UL, ATEX, IECEx, DNV, cFMus
Ex marking	ATEX: II 3G Ex ec IIC T4 Gc IECEx: Ex ec IIC T4 Gc cFMus: Class I, Division 2, Groups A, B, C, D Class I, Zone 2, AEx ec IIC T4 Gc

Housing data	EL-12-16pin
Design form	HD (High Density) housing with signal LEDs
Material	polycarbonate
Installation	on 35 mm DIN rail, conforming to EN 60715 with lock
Side by side mounting by means of	double slot and key connection
Marking	labeling of the BZxxxx series

Housing data	EL-12-16pin
Wiring	solid conductors (s): direct plug-in technology; fine-stranded conductors (st) and ferrule (f): spring actuation by screwdriver
Connection cross-section	s*: 0.08...1.5 mm^2, st*: 0.25...1.5 mm^2, f*: 0.14...0.75 mm^2
Connection cross-section AWG	s*: AWG28...16, st*: AWG22...16, f*: AWG26...19
Stripping length	8...9 mm
Current load power contacts	I_{max}: 10 A
Dimensions (W x H x D)	12 mm x 100 mm x 68 mm

*s: solid wire; st: stranded wire; f: with ferrule

Material Compliance

Material compliance	EL2809
REACH SVHC	no
POP	compliant
RoHS	compliant with exemption
RoHS exemption	7c-I: Lead-containing electrical and electronic components in glass and ceramic materials, excluding dielectric ceramics in capacitors
China-RoHS	www.beckhoff.com/china-rohs-io
CA Prop65	www.beckhoff.com/prop65
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