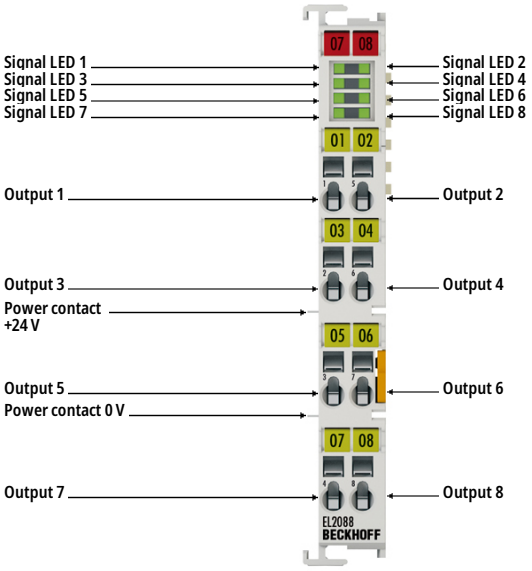
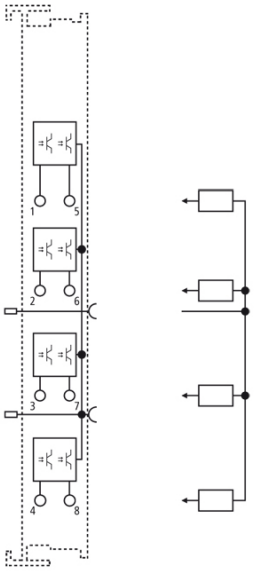
EL2088 | EtherCAT Terminal, 8-channel digital output, 24 V DC, 0.5 A, ground switching



Top view



Contact assembly

Product status: Regular delivery

The EL2088 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 contains eight channels whose signal state is indicated by LEDs.

Special features:

- ground switching
- Connection of different load types possible (ohmic, inductive, lamp load)
- Max. output current 0.5 A per channel
- Overload and short-circuit proof outputs and reverse polarity protection

Product information

Technical Data

Technical data	EL2088, ES2088
Connection technology	1-wire
Number of outputs	8
Nominal voltage	24 V DC (-15 %/+20 %)
Load type	ohmic, inductive, lamp load
Distributed clocks	–
Max. output current	0.5 A (short-circuit proof) per channel, ∑ 3 A

Short-circuit current	typ. < 7 A
Reverse voltage protection	yes
Breaking energy	< 100 mJ/channel
Switching times	typ. TON: 50 µs, typ. TOFF: 200 µs
Current consumption E-bus	typ. 110 mA
Electrical isolation	500 V (E-bus/field potential)
Current consumption power contacts	typ. 30 mA + load
Bit width in the process image	8 outputs
Configuration	no address or configuration setting
Weight	approx. 70 g
Operating/storage temperature	0...+55 °C/-25...+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
Pluggable wiring	for all ESxxxx terminals
Approvals/markings	CE, UL, ATEX
Ex marking	II 3 G Ex nA IIC T4 Gc

Housing data	**EL-12-8pin**	**ES-12-8pin**
Design form	compact terminal housing with signal LEDs	terminal housing with pluggable wiring level
Material	polycarbonate	
Dimensions (W x H x D)	12 mm x 100 mm x 68 mm	
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 BZxxx series	
Wiring	solid conductor (e), flexible conductor (f) and ferrule (a): spring actuation by screwdriver	
Connection cross-section	s*: 0.08...2.5 mm², st*: 0.08...2.5 mm², f*: 0.14...1.5 mm²	s*: 0.08...1.5 mm², st*: 0.08...1.5 mm², f*: 0.14...1.5 mm²
Connection cross-section AWG	s*: AWG 28...14, st*: AWG 28...14, f*: AWG 26...16	s*: AWG 28...16, st*: AWG 28...16, f*: AWG 26...16
Stripping length	8...9 mm	9...10 mm
Current load power contacts	I_{max}: 10 A	

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

Ordering Information

Ordering information	
EL2088	EtherCAT Terminal, 8-channel digital output, 24 V DC, 0.5 A, ground switching
ES2088	EtherCAT Terminal, 8-channel digital output, 24 V DC, 0.5 A, ground switching, pluggable wiring