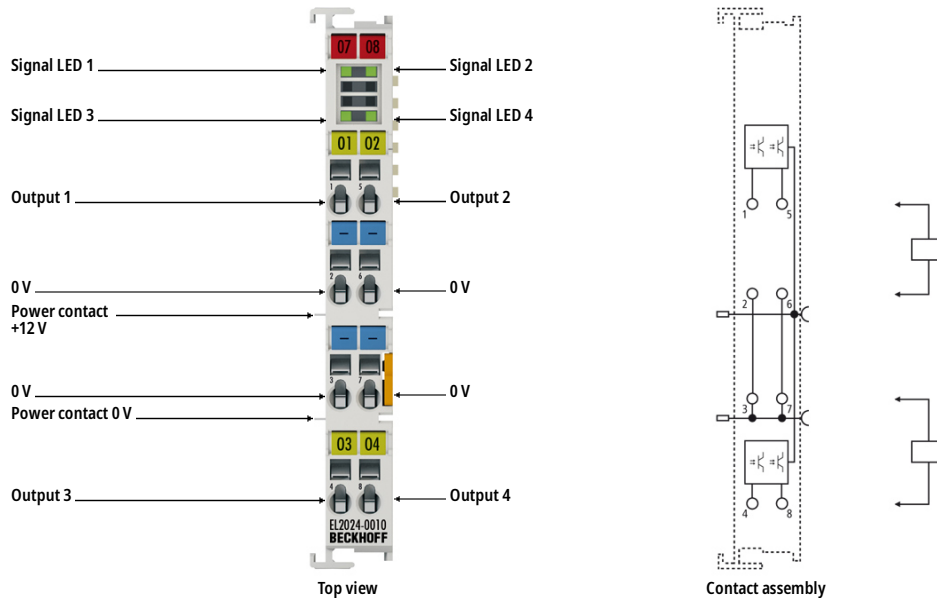


# EL2024-0010 | EtherCAT Terminal, 4-channel digital output, 12 V DC, 2 A



**i Product status:** Regular delivery

The EL2024-0010 digital output terminal connects binary 12 V DC control signals to the actuators with electrical isolation. Four channels are available, which indicate their signal state via LEDs. The EL2024-0010 facilitates direct connection of four 2-wire actuators because it has four ground connection points.

Special features:

- 12 V DC outputs
- Connection of different load types possible (ohmic, inductive, lamp load)
- Max. output current 2 A per channel
- Short-circuit-proof outputs and reverse polarity protection
- Suitable for automotive applications, for example

## Product information

### Technical Data

Technical data	EL2024-0010
Connection technology	2-wire
Number of outputs	4
Nominal voltage	12 V DC (-15 %/+20 %)
Load type	ohmic, inductive, lamp load
Distributed clocks	-

Max. output current	2.0 A (short-circuit proof) per channel
Short-circuit current	typ. < 70 A
Reverse voltage protection	yes
Breaking energy	< 1.7 J/channel
Switching times	typ. TON: 40 µs, typ. TOFF: 200 µs
Peak current	–
Current consumption E-bus	typ. 120 mA
Electrical isolation	500 V (E-bus/field potential)
Current consumption power contacts	typ. 13 mA + load
Bit width in the process image	4 outputs
Configuration	no address or configuration setting
Special features	for automotive applications
Weight	approx. 55 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
Approvals/markings	CE, UL, ATEX
Ex marking	II 3 G Ex nA IIC T4 Gc

<b>Housing data</b>	<b>EL-12-8pin</b>
Design form	compact terminal housing with signal LEDs
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 mm <sup>2</sup> , st*: 0.08...2.5 mm <sup>2</sup> , f*: 0.14...1.5 mm <sup>2</sup>
Connection cross-section AWG	s*: AWG 28...14, st*: AWG 28...14, f*: AWG 26...16
Stripping length	8...9 mm
Current load power contacts	I <sub>max</sub> : 10 A

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