

EL2024 | EtherCAT Terminal, 4-channel digital output, 24 V DC, 2 A

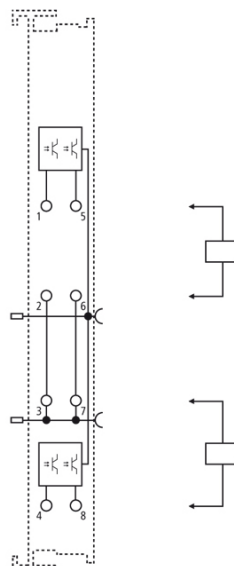
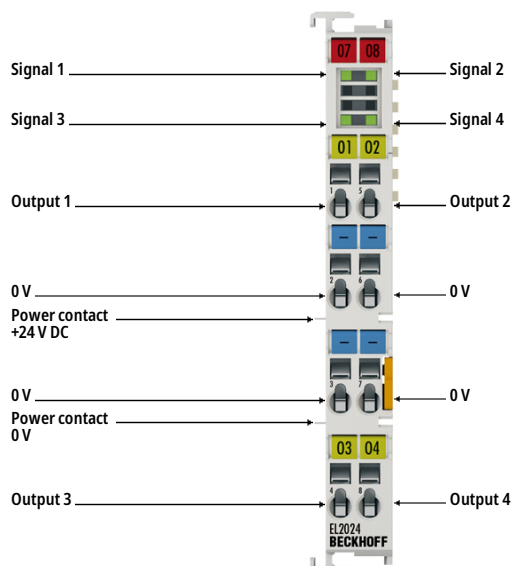


Image similar, may contain optional accessories

i **Product status:** regular delivery

The EL2024 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 four channels whose signal state is indicated by LEDs. Direct connection of four 2-wire actuators is possible because the terminal has four ground connection points.

Special features:

- 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

Product information

Technical data

Technical data	EL2024
Connection technology	2-wire
Number of outputs	4
Nominal voltage	24 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. T _{ON} : 40 µs, typ. T _{OFF} : 200 µs
Current consumption E-bus	typ. 120 mA
Current consumption power contacts	typ. 13 mA + load
Bit width in the process image	4 outputs
Configuration	no address or configuration setting
Electrical isolation	500 V (E-bus/field potential)
Weight	approx. 55 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
Pluggable wiring	for all ESxxxx terminals
Approvals/markings	CE, CCC, UL, ATEX, IECEx
Ex marking	ATEX: II 3 G Ex ec IIC T4 Gc IECEx: Ex ec 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	
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	
Wiring	solid conductor (s), flexible conductor (st) and ferrule (f): spring actuation by screwdriver	
Connection cross-section	s*: 0.08...2.5 mm ² , st*: 0.08...2.5 mm ² , f*: 0.14...1.5 mm ²	s*: 0.08...1.5 mm ² , st*: 0.08...1.5 mm ² , f*: 0.14...1.5 mm ²

Connection cross-section AWG	s*: AWG28...14, st*: AWG28...14, f*: AWG26...16	s*: AWG28...16, st*: AWG28...16, f*: AWG26...16
Stripping length	8...9 mm	9...10 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

Ordering information

Ordering information	
EL2024	EtherCAT Terminal, 4-channel digital output, 24 V DC, 2 A
ES2024	EtherCAT Terminal, 4-channel digital output, 24 V DC, 2 A, pluggable wiring