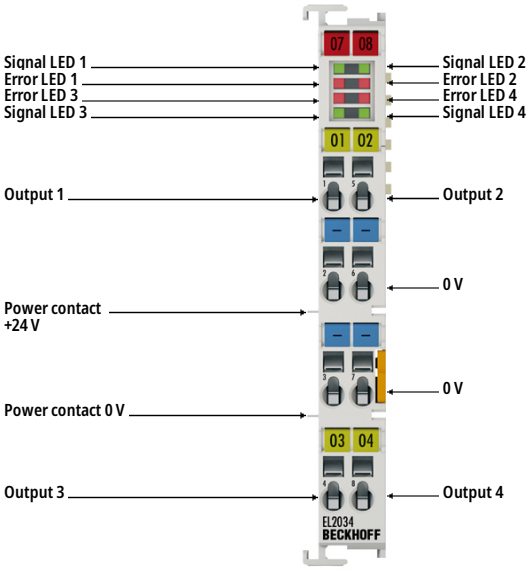
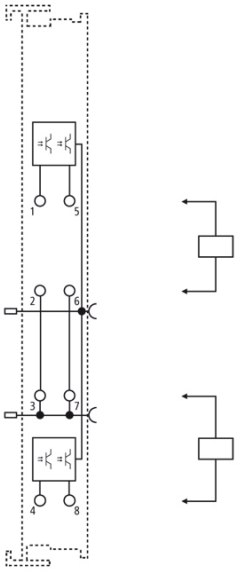
EL2034 | EtherCAT Terminal, 4-channel digital output, 24 V DC, 2 A, with diagnostics



Top view



Contact assembly

Product status: Regular delivery

The EL2034 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 four channels that indicate their signal state via light emitting diodes. The integrated diagnostics can be evaluated in the controller and is indicated by the LEDs. The EL2034 allows direct connection of four 2-wire actuators.

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
- Integrated diagnostics capability
  - Short-circuit detection per channel
  - Line break detection per channel

Product information

Technical Data

Technical data	EL2034, ES2034
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, with diagnostics
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
Current consumption E-bus	typ. 120 mA
Electrical isolation	500 V (E-bus/field potential)
Current consumption power contacts	typ. 14 mA + load
Bit width in the process image	4 outputs + 4 diagnostic inputs
Configuration	no address or configuration setting
Special features	diagnostics: short circuit and open circuit
Weight	approx. 55 g
Operating/storage temperature	-25...+60 °C/-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, 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	
EL2034	EtherCAT Terminal, 4-channel digital output, 24 V DC, 2 A, with diagnostics
ES2034	EtherCAT Terminal, 4-channel digital output, 24 V DC, 2 A, with diagnostics, pluggable wiring