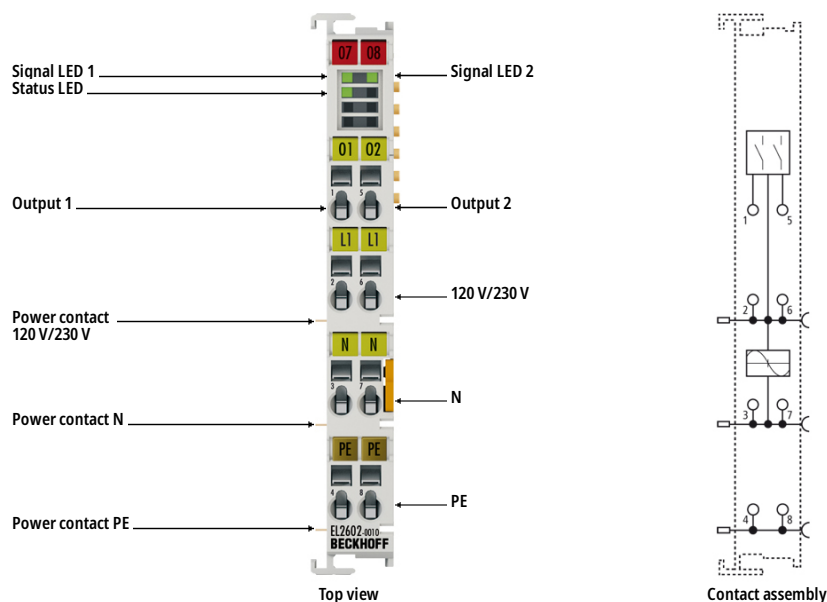# EL2602-0010 | EtherCAT Terminal, 2-channel relay output, 230 V AC, 30 V DC, 5 A, contact-protecting switching

Signal LED 1
Status LED
Signal LED 2
Output 1
Output 2
120 V/230 V
Power contact 120 V/230 V
N
Power contact N
PE
Power contact PE

Top view

Contact assembly

Product status: Regular delivery

The EL2602-0010 output terminal has two relays each of which has a single contact. The relay terminal switches at the zero voltage crossing to protect the contacts and is particularly suitable for capacitive loads such as LED lamps. A practical test was able to show that an EL2622-0010 remained fully functional at a capacitive continuous current load of 4 A after 200,000 switching cycles (for details see documentation). The signal state of the EtherCAT Terminal is indicated by light emitting diodes.

Special features:

- Relay output
- 2 x make contact
- Suitable for ohmic, inductive and capacitive loads
- contact-protecting switching of LED lamps

Product information

Technical Data

Technical data	EL2602-0010, ES2602-0010
Connection technology	relay output
Number of outputs	2 x make contacts for power contact
Nominal voltage	230 V AC/30 V DC
Load type	ohmic, inductive, capacitive

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Distributed clocks	–
Switching current	5 A AC/DC per channel
Inductive switching current	2 A AC/DC per channel
Minimum permitted load	0.1 mA at 0.1 V DC
Current consumption E-bus	typ. 120 mA
Electrical isolation	500 V (E-bus/field potential)
Current consumption power contacts	load-dependent
Bit width in the process image	2 outputs + 1 input
Operating cycles mech. (min.)	2×10^7
Operating cycles electr. (min.)	8×10^4 (5 A/30 V DC or 5 A/250 V AC and ohmic load)
Configuration	no address or configuration setting
Special features	soft switching at zero voltage crossing significantly extends service life with AC voltage supply
Weight	approx. 50 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

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	
EL2602-0010	EtherCAT Terminal, 2-channel relay output, 230 V AC, 30 V DC, 5 A, contact-protecting switching
ES2602-0010	EtherCAT Terminal, 2-channel relay output, 230 V AC, 30 V DC, 5 A, contact-protecting switching, pluggable wiring

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