

EL2502 | EtherCAT Terminal, 2-channel PWM output, 24 V DC, 0.5 A

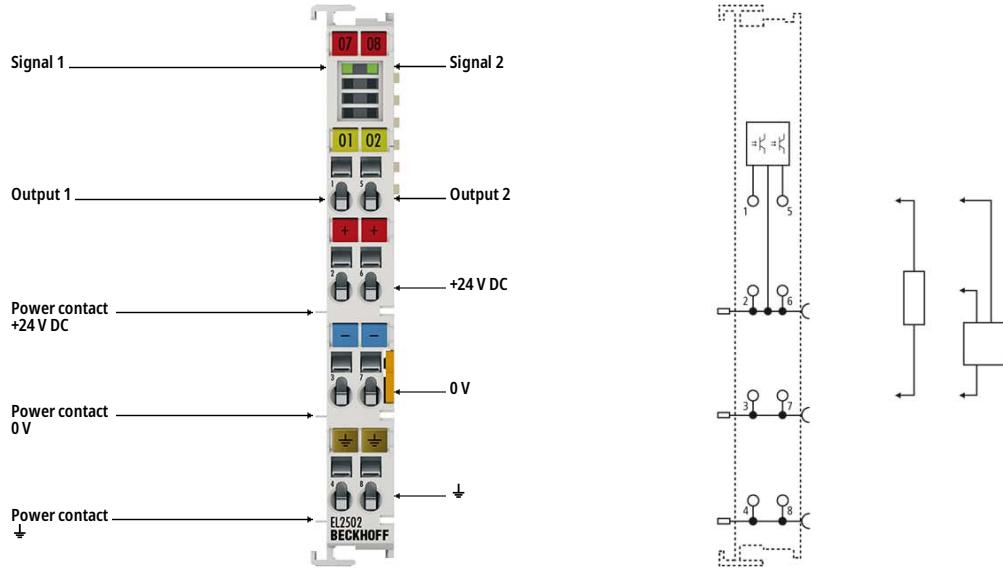
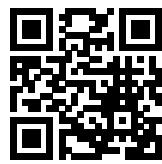


Image similar, may contain optional accessories

Product status: regular delivery

The EL2502 output terminal modulates the pulse width of a binary signal, and outputs it electrically isolated from the E-bus. The mark/space ratio is preset by a 16-bit value from the automation device. The output stage is protected against overload and short-circuit. The EtherCAT Terminal contains two channels whose signal state is indicated by LEDs. The LEDs are driven in time with the outputs, and show the duty factor by their brightness.

Special features:

- PWM output with push-pull output stage
- max. output current 0.5 A per channel
- separate frequency adjustable for each channel

Product information

Technical data

Technical data	EL2502
Connection technology	PWM output, push-pull outputs
Number of outputs	2
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
Short-circuit current	typ. < 1.5 A
Base frequency	1 Hz...125 kHz, 250 Hz default
Duty factor	0...100% (pulse duration $T_{ON} > 750$ ns, pause duration $T_{OFF} > 500$ ns)
Resolution	9...15 bit
Reverse voltage protection	yes
Current consumption E-bus	typ. 140 mA
Current consumption power contacts	typ. 30 mA
Bit width in the process image	2 x 16 bit PWM output
Configuration	via TwinCAT System Manager
Electrical isolation	500 V (E-bus/field potential)
Special features	separate frequency can be set for each channel
Weight	approx. 50 g
Operating temperature	-25...+55°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
Plug-in wiring level	for all ESxxxx terminals
Approvals/markings	CE, CCC, UL, ATEX, IECEEx
Ex marking	ATEX: II 3 G Ex ec IIC T4 Gc IECEEx: 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	
EL2502	EtherCAT Terminal, 2-channel PWM output, 24 V DC, 0.5 A
ES2502	EtherCAT Terminal, 2-channel PWM output, 24 V DC, 0.5 A, pluggable wiring level