

EL4002 | EtherCAT Terminal, 2-channel analog output, voltage, 0...10 V, 12 bit

The EL4002 analog output terminal generates signals in the range between 0 and 10 V. The voltage is supplied to the process level with a resolution of 12 bits and is electrically isolated. The output channels of the EtherCAT Terminal have a common ground potential. The EL4002 combines two channels in one housing. The output stages are powered by the 24 V supply. The signal state of the EtherCAT Terminal is indicated by light emitting diodes.

i Product status: regular delivery



Product information

Technical data	EL4002	
Number of outputs	2	
Power supply	24 V DC via power contacts	
Signal voltage	010 V	
Distributed clocks	yes	
Distributed clock precision	<< 1 μs	
Load	> 5 k Ω (short-circuit proof)	
Resolution	12 bit	
Output error	< 0.1% (relative to end value)	
Electrical isolation	500 V (E-bus/signal voltage)	
Conversion time	~ 150 µs	
Current consumption power contacts	typ. 40 mA	
Current consumption E-bus	typ. 140 mA	
Bit width in the process image	2 x 16 bit AO output	
Special features	Optional watchdog: user-specific output value with ramp; user synchronization can be activated.	
Weight	approx. 60 g	
Operating/storage temperature	-25+60°C/-40+85°C	
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4	
Relative humidity	95%, no condensation	
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27	
Protect. rating/installation pos.	IP20/variable	
Pluggable wiring	for all ESxxxx terminals	
Approvals/markings	CE, UL, ATEX, IECEx	

Technical data	EL4002
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		
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 (s), flexible conductor (st) and ferrule (f): spring actuation by screwdriver		
Connection cross-section	s*: 0.082.5 mm², st*: 0.082.5 mm², f*: 0.141.5 mm²	s*: 0.081.5 mm², st*: 0.081.5 mm², f*: 0.141.5 mm²	
Connection cross-section AWG	s*: AWG2814, st*: AWG2814, f*: AWG2616	s*: AWG2816, st*: AWG2816, f*: AWG2616	
Stripping length	89 mm	910 mm	
Current load power contacts	I _{max} : 10 A		

^{*}s: solid wire; st: stranded wire; f: with ferrule

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