

EL4102 | EtherCAT Terminal, 2-channel analog output, voltage, 0...10 V, 16 bit

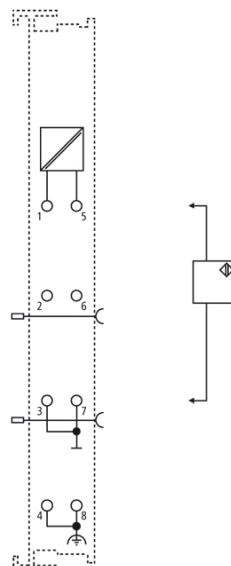
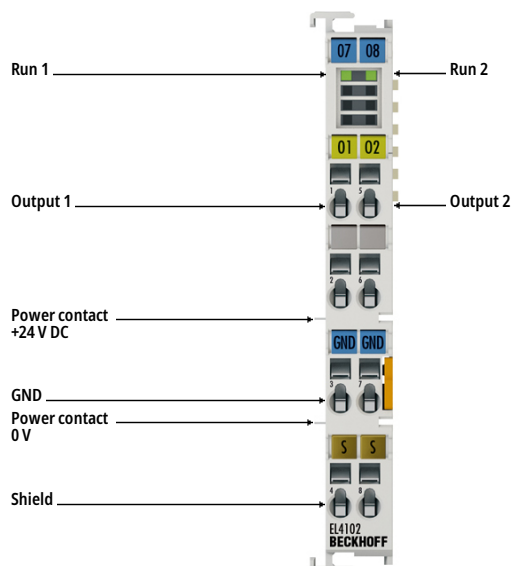


Image similar, may contain optional accessories

i **Product status:** regular delivery

The EL4102 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 16 bits and is electrically isolated. The output channels of the EtherCAT Terminal have a common ground potential. The EL4102 combines two channels in one housing. The signal state of the EtherCAT Terminal is indicated by light emitting diodes.

Product information

Technical data

Technical data	EL4102
Number of outputs	2
Power supply	via the E-bus
Signal voltage	0...10 V
Distributed clocks	yes
Distributed clock precision	<< 1 μ s
Load	> 5 k Ω (short-circuit proof)
Resolution	16 bit (incl. sign)
Output error	< 0.1% (relative to end value)

Electrical isolation	500 V (E-bus/signal voltage)
Output rate	max. 15 ksps
Current consumption power contacts	–
Current consumption E-bus	typ. 170 mA
Bit width in the process image	2 x 16 bit AO output
Special features	Watchdog parameterizable; user synchronization can be activated.
Weight	approx. 60 g
Operating temperature	-25...+60°C
Storage temperature	-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
Plug-in wiring level	for all ESxxx 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 BZxxx 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

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EL4102	EtherCAT Terminal, 2-channel analog output, voltage, 0...10 V, 16 bit
ES4102	EtherCAT Terminal, 2-channel analog output, voltage, 0...10 V, 16 bit, pluggable wiring level
