

EL3061 | EtherCAT Terminal, 1-channel analog input, voltage, 0...10 V, 12 bit, single-ended

The EL3061 analog input terminal processes signals in the range between 0 and 10 V. The voltage is digitized to a resolution of 12 bits and is transmitted, electrically isolated, to the higher-level automation device. The input channels of the **EtherCAT** Terminal have the reference ground as common ground potential. The signal state of the EtherCAT Terminal is indicated by light emitting diodes.

i **Product status:** regular delivery



Product information

Technical data	EL3061
Number of inputs	1 (single-ended)
Power supply	via the E-bus
Signal voltage	0...10 V
Distributed clocks	–
Internal resistance	> 130 kΩ
Input filter limit frequency	1 kHz
Dielectric strength	max. 30 V
Conversion time	0.625 ms default setting, configurable, multiplex
Resolution	12 bit (16 bit presentation incl. sign)
Measurement error/ uncertainty	< ±0.3% (relative to full scale value)
Electrical isolation	500 V (E-bus/signal voltage)
Current consumption power contacts	–
Current consumption E-bus	typ. 130 mA
Bit width in the process image	inputs: 4 byte
Special features	activatable FIR/IIR filters, limit value monitoring
Operating/storage temperature	-25...+60°C/-40...+85°C
Weight	approx. 60 g
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
Approvals/markings	CE, UL, ATEX, IECEx
Pluggable wiring	for all ESxxxx terminals

Technical data	EL3061	
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*: 0.08...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	

*s: solid wire; st: stranded wire; f: with ferrule