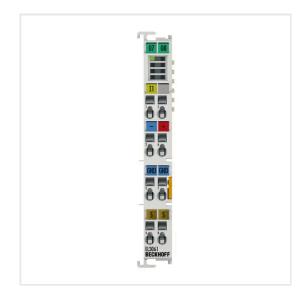


EL3061 | EtherCAT Terminal, 1-channel analog input, voltage, 0...10 V, 12 bit, single-ended

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 | 010 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*: 0.082.5 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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