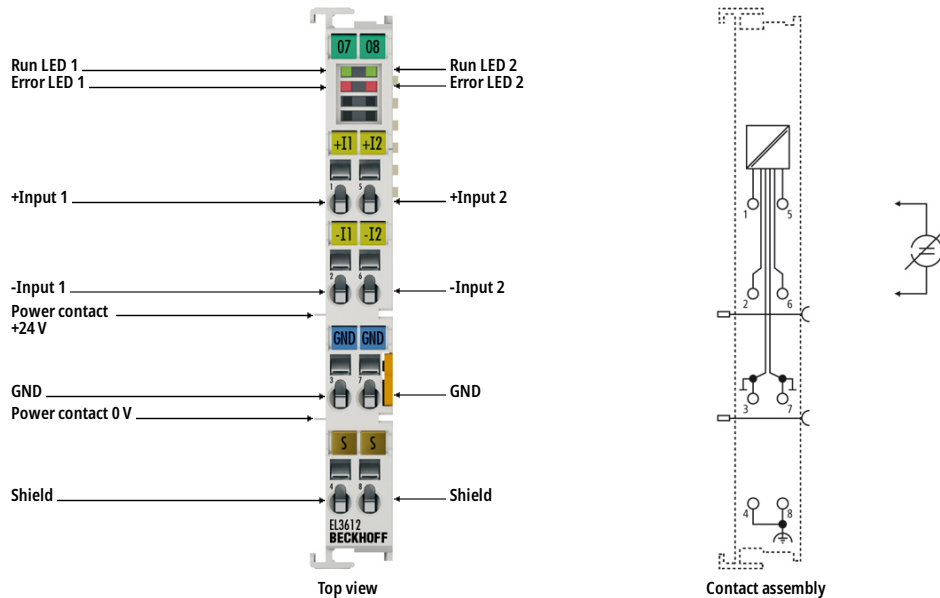
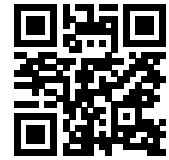


EL3612 | EtherCAT Terminal, 2-channel analog input, current, 0...20 mA, 24 bit, high-precision



i Product status: Regular delivery

The EL3612 analog input terminal handles signals in the range between 0 and 20 mA. The voltage is digitized to a resolution of 24 bits, and is transmitted, electrically isolated, to the higher-level automation device. The input channels of the EtherCAT Terminal have differential inputs and possess a common, internal ground potential. The signal state of the EtherCAT Terminal is indicated by light emitting diodes.

Product information

Technical Data

| Technical data | EL3612, ES3612 |
|-----------------------------|---------------------------|
| Number of inputs | 2 (differential) |
| Power supply | via the E-bus |
| Technology | differential input |
| Signal type | differential |
| Signal current | 0...20 mA |
| Oversampling factor | – |
| Input signal bandwidth | see input filter |
| Distributed clocks | – |
| Distributed clock precision | – |
| Internal resistance | typ. 85 Ω + diode voltage |

| | |
|------------------------------------|---|
| Input filter limit frequency | 3 kHz |
| Common-mode voltage UCM | max. 10 V |
| Conversion time | 1...400 ms configurable |
| Resolution | 24 bit (incl. sign) |
| Measuring error | < ±0.01 % at 25 °C (relative to full scale value, 50 Hz filter) |
| Electrical isolation | 500 V (E-bus/signal voltage) |
| Current consumption power contacts | – |
| Current consumption E-bus | typ. 190 mA |
| Crosstalk attenuation | > 60 dB |
| Special features | various filter times, limit evaluation, high precision |
| Weight | approx. 60 g |
| Operating/storage temperature | -25...+60 °C/-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 |
| Pluggable wiring | for all ESxxx terminals |
| Approvals/markings | CE, UL, ATEX |
| Ex marking | II 3 G Ex nA 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 (e), flexible conductor (f) and ferrule (a): 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*: AWG 28...14, st*: AWG 28...14, f*: AWG 26...16 | s*: AWG 28...16, st*: AWG 28...16, f*: AWG 26...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

Ordering Information

| Ordering information | |
|----------------------|---|
| EL3612 | EtherCAT Terminal, 2-channel analog input, current, 0...20 mA, 24 bit, high-precision |
| ES3612 | EtherCAT Terminal, 2-channel analog input, current, 0...20 mA, 24 bit, high-precision, pluggable wiring |
