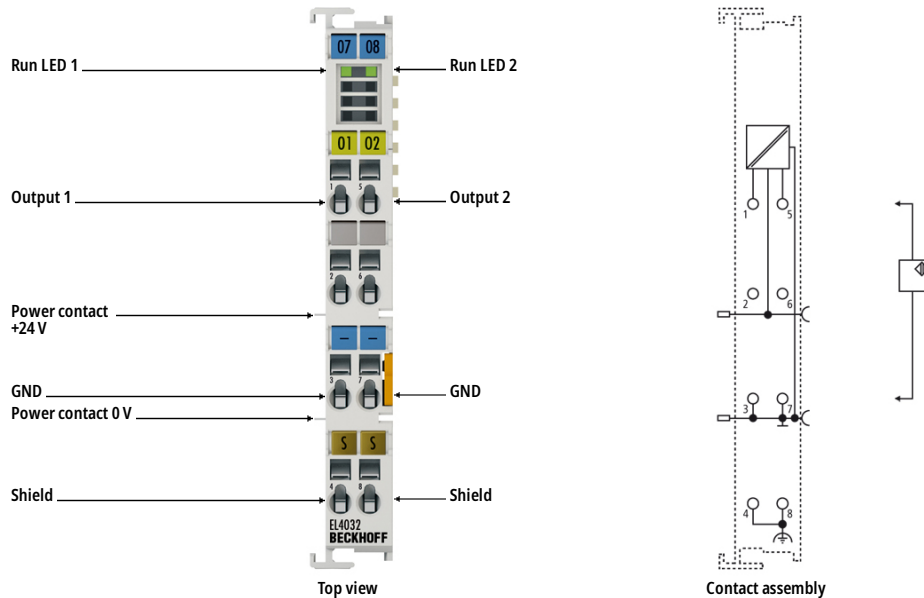
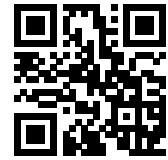


EL4032 | EtherCAT Terminal, 2-channel analog output, voltage, ± 10 V, 12 bit



i **Product status:** Regular delivery

The EL4032 analog output terminal generates signals in the range between -10 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 EL4032 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.

Product information

Technical data

| Technical data | EL4032, ES4032 |
|-----------------------------|---|
| Connection technology | 2-wire, single-ended |
| Number of outputs | 2 |
| Power supply | 24 V DC via power contacts |
| Signal voltage | -10...+10 V |
| Distributed clocks | yes |
| Distributed clock precision | $\ll 1 \mu\text{s}$ |
| Load | $> 5 \text{ k}\Omega$ (short-circuit proof) |
| Output error | $< 0.1 \%$ (relative to end value) |
| Resolution | 12 bit |
| Electrical isolation | 500 V (E-bus/signal voltage) |

| | |
|------------------------------------|---|
| Conversion time | ~ 150 μ s |
| Current consumption power contacts | typ. 25 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. 55 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 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 | |
|----------------------|---|
| EL4032 | EtherCAT Terminal, 2-channel analog output, voltage, \pm 10 V, 12 bit |
| ES4032 | EtherCAT Terminal, 2-channel analog output, voltage, \pm 10 V, 12 bit, pluggable wiring |