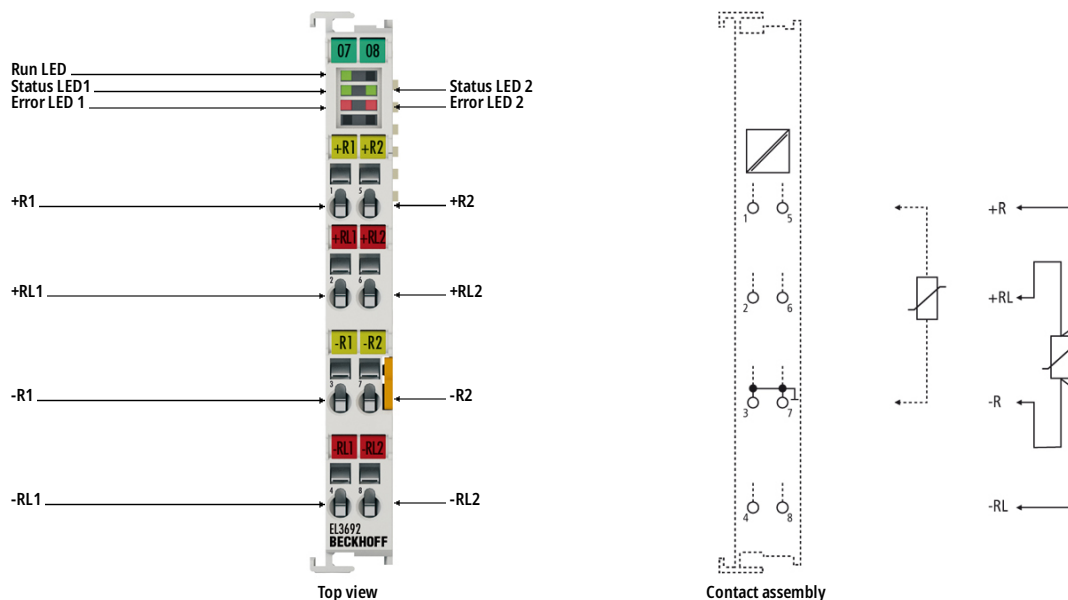
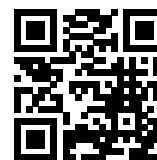


EL3692 | EtherCAT Terminal, 2-channel analog input, resistance, 100 mΩ...10 MΩ, 24 bit



i Product status: Regular delivery

The analog EL3692 input terminal enables direct resistance measurement in nine measuring ranges from 0...100 mΩ to 0...10 MΩ. The circuitry of the EtherCAT Terminal enables measurement in 2- and 4-wire versions. The EL3692 offers measuring range selection, either automatic or through the controller. Due to the galvanic isolation of 1500 V between the field side and the E-bus, in single-channel mode measurements can be carried out at live points (within the permissible range). The EtherCAT Terminal indicates its state through LEDs. Malfunctions such as broken wires are indicated by error LEDs.

Product information

Technical Data

| Technical data | EL3692 |
|------------------------------|--------------------------------------|
| Number of inputs | 2 |
| Power supply | via the E-bus |
| Technology | 2- or 4-wire, resistance measurement |
| Signal type | single-ended |
| Distributed clocks | – |
| Feed voltage potentiometer | – |
| Internal resistance | > 100 MΩ |
| Input filter limit frequency | 100 Hz |
| Wiring fail indication | yes |

| | |
|------------------------------------|---|
| Conversion time | typ. 10...400 ms, dependent on measuring range and settings |
| Measuring range | 100 mΩ, 1 Ω, 10 Ω, 100 Ω, 1 kΩ, 10 kΩ, 100 kΩ, 1 MΩ, 10 MΩ |
| Range switching | automatic or through control |
| Resolution | 24 bit |
| Measuring error | < ±0.5 % (relative to the respective full scale value with 4-wire connection) |
| Electrical isolation | 1500 V (E-bus/field potential) |
| Current consumption power contacts | – |
| Current consumption E-bus | typ. 220 mA |
| Configuration | via the controller |
| Special features | automatic range selection, pulse and continuous measurement |
| Weight | approx. 55 g |
| Operating/storage temperature | 0...+55 °C/-25...+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 |
| Approvals/markings | CE, UL, ATEX |
| Ex marking | II 3 G Ex nA IIC T4 Gc |

| | |
|-----------------------------------|---|
| Housing data | EL-12-8pin |
| Design form | compact terminal housing with signal LEDs |
| 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 |
| Connection cross-section AWG | s*: AWG 28...14, st*: AWG 28...14, f*: AWG 26...16 |
| Stripping length | 8...9 mm |
| Current load power contacts | I _{max} : 10 A |

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