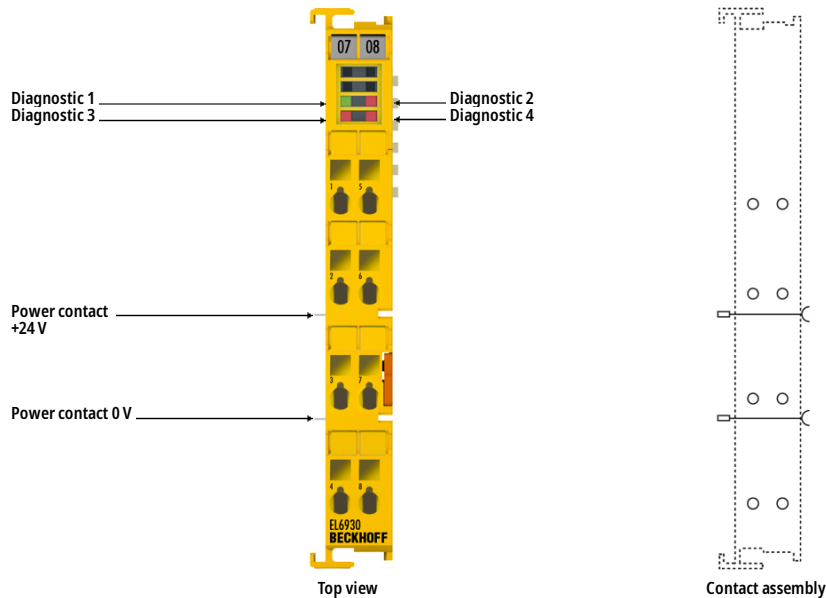


EL6930 | EtherCAT Terminal communication interface, TwinSAFE Logic



i Product status: Regular delivery

The EL6930 TwinSAFE component is a dedicated safety controller. It is used for the realization of safety-oriented applications on the basis of Boolean values. For this purpose, certified function blocks are available that enable the processing of safe input signals and the generation of safe output signals. The functionality of the function blocks ranges from simple Boolean functions such as AND and OR to complex function blocks for muting the safety function.

With the backup and restore function, the EL6930 additionally offers a simple way to exchange a safety controller in case of service.

The EL6930 can safely exchange data via FSoE with up to 128 safe communication devices. One of these connections can be used to establish a connection to a PROFIsafe master via PROFIsafe.

The EL6930 is programmed with the TwinCAT 3 Safety Editor or with TwinCAT 2.

Special features:

- safety applications on the basis of Boolean values
- up to 128 safe connections
- up to 255 function blocks
- up to 32 TwinSAFE groups
- up to 8 users
- backup and restore support
- PROFIsafe slave support

Product information

Technical data

| Technical data | EL6930 |
|------------------------------------|--|
| Specification | link unit between safe input and output signals |
| Protocol | TwinSAFE/Safety over EtherCAT, PROFIsafe |
| Cycle time | approx. 500 µs/according to project size |
| Fault response time | ≤ watchdog time (parameterizable) |
| Current consumption power contacts | – |
| Current consumption E-bus | typ. 188 mA |
| Installation position | horizontal |
| Safety standard | DIN EN ISO 13849-1:2008 (Cat. 4, PL e) and EN 61508:2010 (SIL 3) |
| Weight | approx. 50 g |
| IP protection rating | IP20 |

| 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