



## CU1561 | EtherCAT media converter plastic optical fibre

The EtherCAT-capable CU1561 for Industrial Fast Ethernet/100 Mbaud serves as media converter from POF (plastic optical fibre) to copper and vice versa. The CU1561 is suitable for POF cables, which are particularly easy to install in the field.

The CU1561 always operates bidirectionally and collision-free with constant delay. It can be diagnosed as a separate EtherCAT device. In this way, unlike standard media converters, the CU1561 enables fast link control and the safe closing of the EtherCAT strand even in the event of a fault. Since the transfer direction (copper to optical fibre | optical fibre to copper) is relevant for the bus, the device can be configured via a switch. Via this switch "Link Loss Forwarding" for normal Ethernet operation can also be selected.

The CU1561 is useful in applications where higher EMC loads on the bus line are to be expected or where simple assembly is required.

| Technical data                   | CU1561  |
|----------------------------------|---|
| Task within EtherCAT system      | media transition from RJ45 copper physics to POF and back                             |
| Data transfer medium             | plastic optic fibre 980/1000 µm (POF); Ethernet/EtherCAT cable (min. CAT 5), shielded |
| Bus interface                    | 1 x SC Duplex; 1 x RJ45   |
| Distance between stations        | max. 50 m (POF); max. 100 m (100BASE-TX)  |
| Protocol                         | EtherCAT  |
| Delay                            | approx. 1 µs  |
| Data transfer rates              | 100 Mbaud   |
| Configuration                    | per rotary switch   |
| Power supply                     | 24 (18...30) V DC, 3-pin connection (+, -, PE)  |
| Dimensions (W x H x D)           | 34 x 98 x 77 (in mm)  |
| 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. class/installation pos. | IP 20/variable  |
| Approvals                        | CE, UL  |

| Further POF products |   |
|----------------------|---|
| <b>EK1541</b>        | EtherCAT Coupler with ID switch, POF for E-bus terminals (ELxxxx) |
| <b>EK1561</b>        | 1-port EtherCAT POF junction                                      |

| Accessories         |  |
|---------------------|--|
| <b>EtherCAT POF</b> | POF cordsets and connectors for EtherCAT |

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