



Top view

EK1561 | 1-port EtherCAT plastic optical fibre junction

In connection with an EK1100 EtherCAT coupler, the EK1561 single-port POF branch makes it possible to convert from 100BASE-TX physics to 100BASE-FX physics (POF – Plastic Optical Fibre). Distances of up to 50 m between two couplers can be bridged using the EK1561 and the EK1541 EtherCAT Coupler for POF. Unlike the glass fibre, the POF fibre is easily wireable in the field. The Run LED indicates the status of the EK1561.

Technical data	EK1561
Task within EtherCAT system	coupling of EtherCAT junctions via POF
Data transfer medium	plastic optical fibre (POF)
Distance between stations	max. 50 m (100BASE-FX)
Number of EtherCAT Terminals	–
Type/number of peripheral signals	–
Protocol	EtherCAT
Delay	approx. 1 µs
Data transfer rates	100 Mbaud
Configuration	not required
Bus interface	1 x ZS1090-0008 POF plug
Power supply	from E-bus
Current consumption E-bus	typ. 200 mA
Current consumption 24 V DC	–
Weight	approx. 65 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. class/installation pos.	IP 20/variable
Approvals	CE, UL

Further POF products	
EK1541	EtherCAT Coupler with ID switch, POF for E-bus terminals (ELxxxx)
CU1561	EtherCAT media converter plastic optical fibre, IP20

Accessories	
Cordsets	cordsets and connectors
EtherCAT POF	POF cordsets and connectors for EtherCAT