EK1122 | 2-port EtherCAT junction

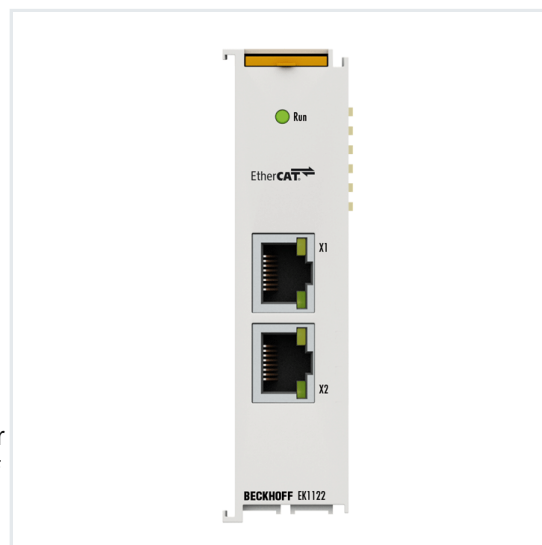The EK1122 2-port EtherCAT junction can be used in an EtherCAT Terminal segment at any desired position between the EtherCAT Terminals and enables configuration of EtherCAT star topologies. A modular EtherCAT star hub can be realized by using several EK1122 units in a station.

Special features:

- Connection technology: 2 x RJ45 sockets
- Connection lengths: up to 100 m
- Can be used for configuring an EtherCAT star topology

The EK1122 has two RJ45 sockets, which enable connection of an Ethernet cable with RJ45 connector and establish a connection to a further EtherCAT segment or to individual EtherCAT devices. The EK1122 supports coupling and uncoupling of EtherCAT segments during operation (Hot Connect).

Product status: Regular delivery

Product information

Technical data	EK1122
Task within EtherCAT system	coupling of EtherCAT junctions
Data transfer medium	Ethernet/EtherCAT cable (min. Cat. 5), shielded
Distance between stations	100 m (100BASE-TX)
Protocol	EtherCAT
Delay	approx. 1 µs
Data transfer rates	100 Mbit/s
Configuration	not required
Bus interface	2 x RJ45
Power supply	from E-bus
Current consumption	typ. 220 mA
Weight	approx. 65 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. class/installation pos.	IP 20/variable
Approvals/markings	CE, UL, ATEX, IECEx, cFMus
Ex marking	ATEX: II 3 G Ex nA IIC T4 Gc IECEx: Ex nA IIC T4 Gc Ex tc IIIC T135 °C Dc cFMus: Class I, Division 2, Groups A, B, C, D Class I, Zone 2, AEx ec IIC T4 Gc

Housing data	EL-24
Design form	compact terminal housing with signal LEDs
Material	polycarbonate

Housing data	EL-24
Dimensions (W x H x D)	24 mm x 100 mm x 52 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	–
Wiring	specific push-in connection

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Dimensions (W x H x D)	24 mm x 100 mm x 52 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