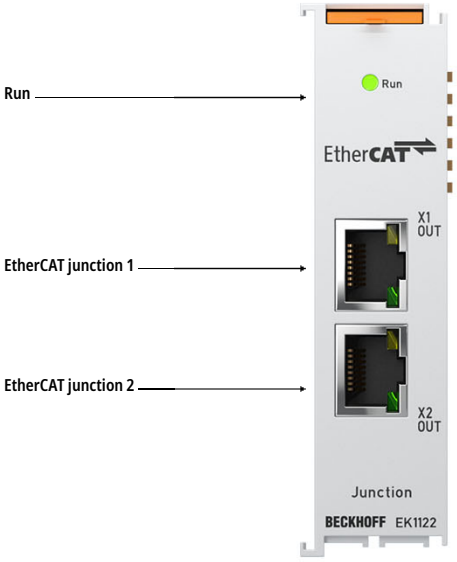
EK1122 | 2-port EtherCAT junction

Image similar, may contain optional accessories



EK1122 | 2-port EtherCAT junction

Product status: regular delivery

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 information

Technical data

Technical data	EK1122
Task within EtherCAT system	coupling of EtherCAT junctions

Technical data	EK1122
Transmission medium	Ethernet/EtherCAT cable (min. Cat.5), shielded
Distance between stations	100 m (100BASE-TX)
Protocol	EtherCAT
Propagation delay	approx. 1 µs
Transmission rate	100 Mbit/s
Configuration	not required
Bus interface	2 x RJ45
Power supply	from E-bus
Power contacts	no
Current consumption	typ. 220 mA
Weight	approx. 75 g
Operating temperature	-25...+60°C
Storage temperature	-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. rating/installation pos.	IP20/variable
Approvals/markings	CE, CCC, UL, ATEX, IECEx, cFMus
Ex marking	ATEX: II 3G Ex ec IIC T4 Gc IECEx: Ex ec IIC T4 Gc 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
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
Dimensions (W x H x D)	24 mm x 100 mm x 52 mm

Material Compliance

Material compliance	EK1122
REACH SVHC	no
POP	compliant
RoHS	compliant with exemption
RoHS exemption	7c-I: Lead-containing electrical and electronic components in glass and ceramic materials, excluding dielectric ceramics in capacitors
China-RoHS	www.beckhoff.com/china-rohs-io
CA Prop65	www.beckhoff.com/prop65
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