



EP9128-0021 | EtherCAT junction, IP 67

Line, tree or star: EtherCAT supports virtually any topologies, which can also be directly branched in the field using the EtherCAT Box modules. If several junctions are required at one point in the star topology, an EtherCAT junction can be used to branch the topology further.

Analogous to the infrastructure components with IP 20 protection, the EP9128-0021 eight-way EtherCAT junction offers the possibility to construct the branches of the topology with the smallest possible number of components in the IP 67 world as well. The EtherCAT network is connected to the input port of the EP9128-0021 and can be extended at ports 2 to 8. EtherCAT topologies can be arranged even more flexibly with the multiple junctions with IP 67 protection, since connection to the IP 20 world is also possible via the ports. The EtherCAT junctions are connected via shielded M8 sockets with direct display of link and activity status. Suitable accessories (cables and connectors) are available.

In conjunction with TwinCAT or other suitable EtherCAT masters the EP9128-0021 also supports coupling and uncoupling of EtherCAT strands during operation (Hot Connect). The device cannot be used as a standard Ethernet switch.

Technical data	EP9128-0021
Connection method	M8, screw type, 4-pin
Task within EtherCAT system	coupling of EtherCAT junctions
Data transfer medium	Ethernet/EtherCAT cable (min. CAT 5), shielded
Bus interface	8 x M8, shielded, screw type
Distance between stations	max. 100 m (100BASE-TX)
Protocol	EtherCAT
Delay	approx. 1 µs per port
Data transfer rates	100 Mbaud
Configuration	not required
Power supply	24 V DC (-15 %/+20 %)
Current consumption 24 V DC	approx. 150 mA
Dimensions (W x H x D)	60 mm x 126 mm x 26.5 mm
Operating/storage temperature	-25...+60 °C/-40...+85 °C
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 65/66/67 (conforms to EN 60529)/variable
Approvals	CE, UL

Accessories	
ZK1090-3xxx-xxxx	Cables for EtherCAT signal in- and -output