



EK1101-0080 | EtherCAT Coupler with ID switch, Fast Hot Connect

Hot Connect is an EtherCAT feature for changing topologies through direct coupling or uncoupling during system operation. Coupled EtherCAT components are already quickly linked to the data communication after connection as standard. Fast Hot Connect technology further reduces the connection time significantly, enabling even faster tool changes. Fast Hot Connect ports may only be connected to each other, which is why they are specially identified.

The EK1101-0080 EtherCAT Coupler with Fast Hot Connect is complemented by the EK1122-0080 EtherCAT junction with Fast Hot Connect.

Technical data	EK1101-0080
Task within EtherCAT system	EtherCAT coupler with ID switch, Fast Hot Connect
Data transfer medium	Ethernet/EtherCAT cable (min. Cat. 5), shielded
Distance between stations	max. 100 m (100BASE-TX)
Number of EtherCAT Terminals	up to 65,534
Type/number of peripheral signals	max. 4.2 GB addressable I/O points
Number of configurable IDs	4096
Protocol	EtherCAT
Delay	approx. 1 μ s
Data transfer rates	100 Mbaud
Configuration	not required
Bus interface	2 x RJ45
Power supply	24 V DC (-15 %/+20 %)
Input current	70 mA + (total E-bus current)/4
Current consumption E-bus	–
Current consumption 24 V DC	typ. 70 mA
Current supply E-bus	2000 mA
Power contacts	max. 24 V DC/max. 10 A
Electrical isolation	500 V (power contact/supply voltage/Ethernet)
Weight	approx. 105 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, Ex, IECEx