



EK1101-0008 | EtherCAT Coupler with ID switch and M8 connection

The EK1101-0008 coupler connects EtherCAT with the EtherCAT Terminals (ELxxxx). Compared with the EK1101, the EK1101-0008 has two M8 sockets, which are compatible with the EtherCAT Box modules. The coupler is connected to the network via the upper Ethernet interface. The lower M8 socket may be used to connect further EtherCAT devices in the same strand. In the EtherCAT network, the EK1101-0008 coupler can be installed anywhere in the Ethernet signal transfer section (100BASE-TX) – except directly at the switch. If Ethernet cables with adequate performance are used, e.g. ZK1090-3131-1xxx, line lengths of 100 m are possible via M8.

The EK1101-0008 has three hexadecimal ID switches for assigning an ID to a group of EtherCAT components. This group can then be located at any position within the EtherCAT network. Variable topologies are therefore easily implementable.

Technical data	EK1101-0008
Task within EtherCAT system	coupling of EtherCAT Terminals (ELxxxx) to 100BASE-TX EtherCAT networks, with identity verification
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 Mbit/s
Bus interface	2 x M8, shielded, screw type
Power supply	24 V DC (-15 %/+20 %)
Current consumption from U_s	70 mA + (Σ E-bus current/4)
Current consumption from U_p	load
Current supply E-bus	2000 mA
Current consumption E-bus	–
Power contacts	max. 24 V DC/max. 10 A
Electrical isolation	500 V (power contact/supply voltage/Ethernet)
Weight	approx. 110 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/markings	CE

Accessories	
Cordsets	cordsets and connectors

