



EK1110 | EtherCAT extension

Like the E-bus end terminal, the EK1110 EtherCAT extension is connected to the end of the EtherCAT Terminal block. The terminal offers the option of connecting an Ethernet cable with RJ45 connector, thereby extending the EtherCAT strand electrically isolated by up to 100 m. In the EK1110 terminal, the E-bus signals are converted on the fly to 100BASE-TX Ethernet signal representation. Power supply to the EK1110 electronics is via the E-bus. No parameterisation or configuration tasks are required.

Technical data	EK1110
Task within EtherCAT system	conversion of the E-bus signals to 100BASE-TX Ethernet for extension of the EtherCAT network
Data transfer medium	Ethernet/EtherCAT cable (min. Cat. 5), shielded
Distance between stations	100 m (100BASE-TX)
Protocol	any EtherCAT protocol
Delay	approx. 1 μ s
Data transfer rates	100 Mbit/s
Configuration	not required
Bus interface	1 x RJ45
Power supply	from E-bus
Current consumption E-bus	typ. 130 mA
Electrical isolation	500 V (supply voltage/Ethernet)
Weight	approx. 50 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

Accessories	
Cordsets	cordsets and connectors

System	
EtherCAT	For further EtherCAT products please see the system overview