



i EK1400 | EtherCAT G Coupler

The EK1400 EtherCAT G Coupler connects EtherCAT G with the EtherCAT Terminals (ELxxxx). One station consists of an EK1400 Coupler, any number of EtherCAT Terminals and an EL9011 bus end cap or an EK1110 EtherCAT extension. The coupler provides the same functionality as a branch controller.

Technical data	EK1400
Task within EtherCAT system	coupling of EtherCAT Terminals to EtherCAT G networks
Data transfer medium	Ethernet/EtherCAT cable (min. Cat. 5), shielded
Distance between stations	max. 100 m (1000BASE-T)
Number of EtherCAT Terminals	up to 65,534
Type/number of peripheral signals	max. 4.2 GB addressable I/O points
Protocol	EtherCAT
Delay	approx. 1 μ s
Data transfer rates	1 Gbit/s
Configuration	TwinCAT
Bus interface	2 x RJ45
Power supply	24 V DC (-15 %/+20 %)
Power contacts	max. 24 V DC/max. 10 A
Electrical isolation	500 V (power contact/supply voltage/Ethernet)
Operating/storage temperature	0...+55 °C/-25...+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

Ordering information	
EK1400	EtherCAT G Coupler for EtherCAT Terminals

Accessories	
Cordsets	cordsets and connectors

System	
EtherCAT	For further EtherCAT products please see the system overview .

i Product announcement	estimated market release 3rd quarter 2020
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