



## EK1300 | EtherCAT P coupler

The EK1300 coupler integrates EtherCAT Terminals (ELxxxx) in the EtherCAT P network. The upper EtherCAT P interface is used to connect the coupler to the network, the lower EtherCAT-P-coded M8 socket is used for optional continuation of the EtherCAT P topology. Since EtherCAT P integrates the power supply and the communication on a single line, an additional power supply for the coupler via the terminal points is no longer required. Depending on the application, the system and sensor supply  $U_s$  or the peripheral voltage for actuators  $U_P$  can be bridged to the power contacts. In addition to the Run LED and the link and activity status, status LEDs indicate the state of the  $U_s$  and  $U_P$  voltages, as well as overload and short-circuit events.

Technical data	EK1300
Task within EtherCAT system	coupling of EtherCAT Terminals (ELxxxx) to 100BASE-TX EtherCAT P networks
Data transfer medium	EtherCAT P cable, shielded, to 100BASE-TX EtherCAT P networks
Bus interface	2 x M8 socket, shielded, screw type, EtherCAT-P-coded
Power supply	from EtherCAT P (24 V DC for $U_s$ and $U_P$ )
Total current	from EtherCAT P, max. 3 A per $U_s$ and $U_P$
Current consumption from $U_s$	40 mA + ( $\Sigma$ E-bus current/4)
Current consumption from $U_P$	typ. 4 mA
Current supply E-bus	2000 mA
Current rating per port	max. 3 A per $U_s$ and $U_P$
Electrical isolation	500 V (power contact/supply voltage/Ethernet)
Operating/storage temperature	0...+55 °C/-25...+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 20/variable
Approvals	CE

Accessories	
ZK700x-010x-0xxx	Cables for EtherCAT P: Ultra-fast Communication and Power in One Cable
Cordsets	cordsets and connectors

System	
EtherCAT	For further EtherCAT products please see the <a href="#">system overview</a>