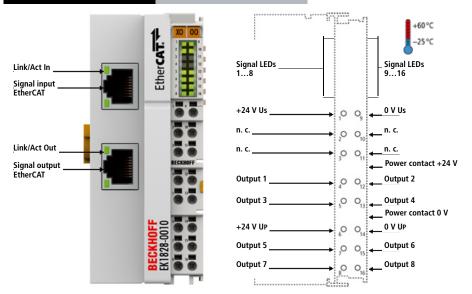
EtherCAT EK1828-0010



EK1828-0010 | EtherCAT Coupler with integrated digital outputs

The EtherCAT Couplers from the EK18xx series combine the functionalities of the EK1100 EtherCAT Coupler with standard digital I/Os in one housing. This results in a compact design that is especially suitable for applications with a low number of I/Os. Like the EK1100, the EK18xx coupler can be extended by all EL/ES terminals. The digital I/Os are implemented with a 1-wire technique. The wiring can be implemented without tools using a direct plug-in technique with solid wire conductors or ferrules.

The EK1828-0010 has eight digital outputs.

Technical data	EK1828-0010
Task within EtherCAT system	coupling of EtherCAT Terminals (ELxxxx) to 100BASE-TX EtherCAT networks
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
Protocol	EtherCAT
Delay	approx. 1 µs
Data transfer rates	100 Mbaud
Bus interface	2 x RJ45
Nominal voltage	24 V DC (-15 %/+20 %)
Current supply E-bus	1000 mA
Current consumption from UP	40 mA + load
Current consumption from Us	100 mA + (Σ E-bus current/4)
Number of inputs	-
Specification	-
"0" signal voltage	-
"1" signal voltage	-
Input filter	-
Input current	-
Number of outputs	8
Load type	ohmic, inductive, lamp load
Max. output current	0.5 A (short-circuit-proof) per channel
Short circuit current	typ. < 2 A
Reverse voltage protection	yes
Breaking energy	< 150 mJ/channel
Switching times	typ. Τον: 60 μs, Τοff: 300 μs
Electrical isolation	500 V (power contact/supply voltage/Ethernet), 500 V (E-bus/field potential)
Conductor types	solid wire, stranded wire and ferrule
Conductor connection	solid wire conductors: direct plug-in technique; stranded wire conductors and ferrules: spring actuation by screwdriver
Rated cross-section	solid wire: 0.081.5 mm ² ; stranded wire: 0.251.5 mm ² ; ferrule: 0.140.75 mm ²
Operating/storage temperature	-25+60 °C/-40+85 °C
operating/storage temperature	

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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

Accessories	
Cordsets	cordsets and connectors

Related products	
EK1814	EtherCAT Coupler with 4 integrated digital inputs and 4 integrated digital outputs
EK1818	EtherCAT Coupler with 8 integrated digital inputs and 4 integrated digital outputs
EK1828	EtherCAT Coupler with 4 integrated digital inputs and 8 integrated digital outputs
EK1914	EtherCAT Coupler with integrated digital standard and safety I/Os

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