



EK3100 | PROFIBUS Bus Coupler



The EK3100 Bus Coupler connects PROFIBUS networks to the EtherCAT Terminals (ELxxxx) as well as the EtherCAT Box modules (EPxxxx) and converts the telegrams from PROFIBUS to the E-bus signal representation. One station consists of an EK3100 and any number of EtherCAT Terminals. The coupler is connected to PROFIBUS via a 9-pin D-sub plug. In EtherCAT, the PROFIBUS coupler has at its disposal a lower-level, powerful and ultra-fast I/O system with a large selection of terminals. The coupler supports the PROFIBUS profile and fits seamlessly into PROFIBUS networks.

Technical data	EK3100
Task within EtherCAT system	coupling of standard digital and analog EtherCAT Terminals and EtherCAT Box modules to PROFIBUS networks
Number of EtherCAT Terminals	depending on the process data size
Type/number of peripheral signals	depending on the process data size
Protocol	PROFIBUS DP
Data transfer rates	up to 12 Mbaud (automatic detection)
Configuration	not required
Bus interface	1 x D-sub 9-pin socket with shielding
Power supply	24 V DC (-15 %/+20 %)
Input current	typ. 120 mA + (total E-bus current)/4
Current consumption E-bus	up to 2 A
Power contacts	24 V DC max./10 A max.
Electrical isolation	500 V (power contact/supply voltage/Ethernet)
Dimensions (W x H x D)	64 mm x 100 mm x 73 mm
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	CE, UL, Ex

Accessories	
Cordsets	cordsets and connectors
FC310x	PC Fieldbus Cards with PCI interface

System	
PROFIBUS	For further PROFIBUS products please see the system overview