



Top view

BK1250 | “Compact” coupler between E-bus and K-bus Terminals



The BK1250 is a “Bus Coupler in terminal housing” for mixed application of EtherCAT Terminals (ELxxxx) and standard Bus Terminals (KLxxxx) in a bus station. It enables implementation of compact and cost-effective control solutions. The wide range of Bus Terminals can thus be optimally combined with the communication speed and large bandwidth of EtherCAT Terminals. Up to 64 Bus Terminals (with K-bus extension up to 255) can be connected to a BK1250. The Bus Coupler recognises the connected Bus Terminals and automatically allocates them into the EtherCAT process image.

Technical data	BK1250
Number of Bus Terminals	64 (255 with K-bus extension)
Max. number of bytes fieldbus	1024 byte input and 1024 byte output
Digital peripheral signals	8,192 inputs/outputs
Analog peripheral signals	256 inputs/outputs
Protocol	EtherCAT
Configuration possibility	via KS2000 or EtherCAT (ADS)
Data transfer rates	100 Mbaud
Bus interface	via E-bus contacts
Power supply	24 V DC (-15 %/+20 %)
Input current	70 mA + (total K-bus current)/4, 200 mA max.
Starting current	approx. 2.5 x continuous current
Recommended fuse	≤ 10 A
Current supply K-bus	500 mA
Power contacts	24 V DC max./10 A max.
Electrical isolation	500 V (power contact/supply voltage/Ethernet)
Weight	approx. 55 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	
KS2000	configuration software for extended parameterisation
Cordsets	cordsets and connectors
FC9001-0010 FC9011	Ethernet PCI fieldbus cards

Related products	
BK1120	EtherCAT "Economy plus" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)
BK1150	EtherCAT "Compact" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)

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