



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
Task within EtherCAT system	coupling of standard Bus Terminals (KLxxxx) to 100BASE-TX EtherCAT networks
Number of Bus Terminals	64 (255 with K-bus extension)
Max. number of bytes fieldbus	1,024 byte input and 1,024 byte output
Protocol	EtherCAT
Data transfer rates	100 Mbaud
Configuration possibility	via KS2000 or EtherCAT (ADS)
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	
Cordsets	cordsets and connectors