



BK5150 | CANopen “Compact” Bus Coupler

CANopen The “Compact” Bus Coupler BK5150 for CANopen extends the Beckhoff Bus Terminal system by a cost-optimised version in a compact housing. Up to 64 Bus Terminals are supported; with the terminal bus extension, up to 255 Bus Terminals can be connected. The CANopen Bus Coupler offers automatic baud rate detection up to 1 Mbaud and two address selection switches for address assignment. A 5-pin connector for the fieldbus connection is included in the scope of supply. Optionally, the ZS1052-3000 connector with integrated terminating resistor can be connected.

System data	CANopen BK5150							
Number of I/O stations	64 (255 with K-bus extension)							
Number of I/O points	depends on the structure							
Data transfer medium	screened, twisted copper cable, 2 x signal, 1 x ground (recommended)							
Max. cable length	5,000 m	2,500 m	1,000 m	500 m	250 m	100 m	40 m	
Data transfer rates	10 kbaud	20 kbaud	50 kbaud	100/125 kbaud	250 kbaud	500 kbaud	1,000 kbaud	
PDO modes	synchron, cyclic, event driven, polling							

Technical data	BK5150
Number of Bus Terminals	64 (255 with K-bus extension)
Max. number of bytes fieldbus	16 Tx/Rx PDOs
Number of PDOs (CANopen)	16 Tx/Rx PDOs
Additional CANopen features	life, node guarding, emergency object, variable mapping, store/restore
Data transfer rates	automatic detection up to 1 Mbaud
Bus interface	open style connector, 5-pin
Power supply	24 V DC (-15 %/+20 %)
Serial interface	configuration interface
Diagnostics LED	2 x power supply, 2 x K-bus, 2 x fieldbus
Current supply K-bus	1750 mA
Weight	approx. 100 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
FC5101 FC5102	CANopen PCI fieldbus cards

Related products	
BK5110	CANopen Coupler for up to 64 digital Bus Terminals
BK5120	CANopen "Economy plus" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)
BK5151	CANopen "Compact" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)
LC5100	CANopen "Low Cost" Bus Coupler version for up to 64 digital Bus Terminals (255 with K-bus extension)
BC5150	CANopen "Compact" Bus Terminal Controller for up to 64 Bus Terminals (255 with K-bus extension)
BX5100	CANopen Bus Terminal Controller for up to 64 Bus Terminals (255 with K-bus extension)
CX8051	CANopen Embedded PC, slave

System	
CANopen	For further CANopen products please see the system overview