



## BK5151 | CANopen “Compact” Bus Coupler



The “Compact” Bus Coupler BK5151 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 9-pin D-sub 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   BK5151							
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	BK5151
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	D-sub 9-pin socket
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	
<b>BK5110</b>	CANopen Coupler for up to 64 digital Bus Terminals
<b>BK5120</b>	CANopen "Economy plus" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)
<b>BK5150</b>	CANopen "Compact" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)
<b>LC5100</b>	CANopen "Low Cost" Bus Coupler version for up to 64 digital Bus Terminals (255 with K-bus extension)
<b>BC5150</b>	CANopen "Compact" Bus Terminal Controller for up to 64 Bus Terminals (255 with K-bus extension)
<b>BX5100</b>	CANopen Bus Terminal Controller for up to 64 Bus Terminals (255 with K-bus extension)
<b>CX8051</b>	CANopen Embedded PC, slave

System	
<b>CANopen</b>	For further CANopen products please see the <a href="#">system overview</a>