



BK5250 | DeviceNet “Compact” Bus Coupler

DeviceNet The “Compact” Bus Coupler BK5250 for DeviceNet 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 DeviceNet Bus Coupler offers automatic baud rate detection up to 500 kbaud 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	DeviceNet BK5250		
Number of I/O stations	64		
Data transfer medium	screened, twisted copper wire with power supply, 5-pin		
Max. cable length	500 m	250 m	100 m
Data transfer rates	125 kbaud	250 kbaud	500 kbaud
Operating modes	bit strobe, polling, cyclic, change of state (COS)		
DeviceNet type	communications adapter		

Technical data	BK5250
Number of Bus Terminals	64 (255 with K-bus extension)
Max. number of bytes fieldbus	512 byte input and 512 byte output
Digital peripheral signals	1,020 inputs/outputs
Analog peripheral signals	256 inputs/outputs
Configuration possibility	via KS2000 or the controller
Data transfer rates	automatic detection
Bus interface	1 x open pluggable connector, 5-pin, included
Power supply	24 V DC (-15 %/+20 %), through bus cable 11...25 V (conforms to DeviceNet specification)
Serial interface	configuration interface
Diagnostics LED	2 x power supply, 2 x K-bus, 2 x fieldbus
Current supply K-bus	1750 mA
Power contacts	max. 24 V DC/max. 10 A
Electrical isolation	500 V (power contact/supply voltage Bus Coupler)
Weight	approx. 100 g
Operating/storage temperature	-25...+60 °C/-40...+85 °C
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
FC5201 FC5202	DeviceNet PCI fieldbus cards

Related products	
BK5200	DeviceNet Bus Coupler for up to 64 Bus Terminals
BK5210	DeviceNet Bus Coupler for up to 64 digital Bus Terminals
BK5220	DeviceNet "Economy plus" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)
LC5200	DeviceNet "Low Cost" Bus Coupler for up to 64 digital Bus Terminals (255 with K-bus extension)
BC5250	DeviceNet "Compact" Bus Terminal Controller for up to 64 Bus Terminals (255 with K-bus extension)
BX5200	DeviceNet Bus Terminal Controller for up to 64 Bus Terminals (255 with K-bus extension)

System	
DeviceNet	For further DeviceNet products please see the system overview