



BK5210 | DeviceNet Bus Coupler

DeviceNet The BK5210 "Economy" Bus Coupler connects the DeviceNet bus system to the electronic terminal blocks, which can be extended in modular fashion. One unit consists of one Bus Coupler, any number of up to 64 terminals and one end terminal. The BK5210 permits particularly economical creation of peripheral interfacing connections. Up to 64 digital input/output terminals can be connected.

The Bus Coupler operates on the basis of the CAN protocol. The DeviceNet standard on which the Bus Coupler is based allows the operation of diverse DeviceNet devices in one network. DeviceNet is based on a definition of communication objects for the exchange of data from the sensor/actuator area that is especially oriented to automation technology.

The Bus Coupler and Bus Terminals can be parameterised on a PC using the KS2000 configuration set. Commissioning is also possible without the KS2000. Corresponding EDS data files are available for DeviceNet configuration tools.

System data	DeviceNet BK5210		
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	BK5210
Number of Bus Terminals	64
Max. number of bytes fieldbus	32 byte input and 32 byte output
Digital peripheral signals	256 inputs/outputs
Analog peripheral signals	–
Configuration possibility	via KS2000 or the controller
Data transfer rates	via Dip switch
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)
Input current	70 mA + (total K-bus current)/4, 500 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 Bus Coupler)
Weight	approx. 130 g
Operating/storage temperature	0...+55 °C/-25...+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, GL

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
BK5220	DeviceNet "Economy plus" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)
BK5250	DeviceNet "Compact" 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