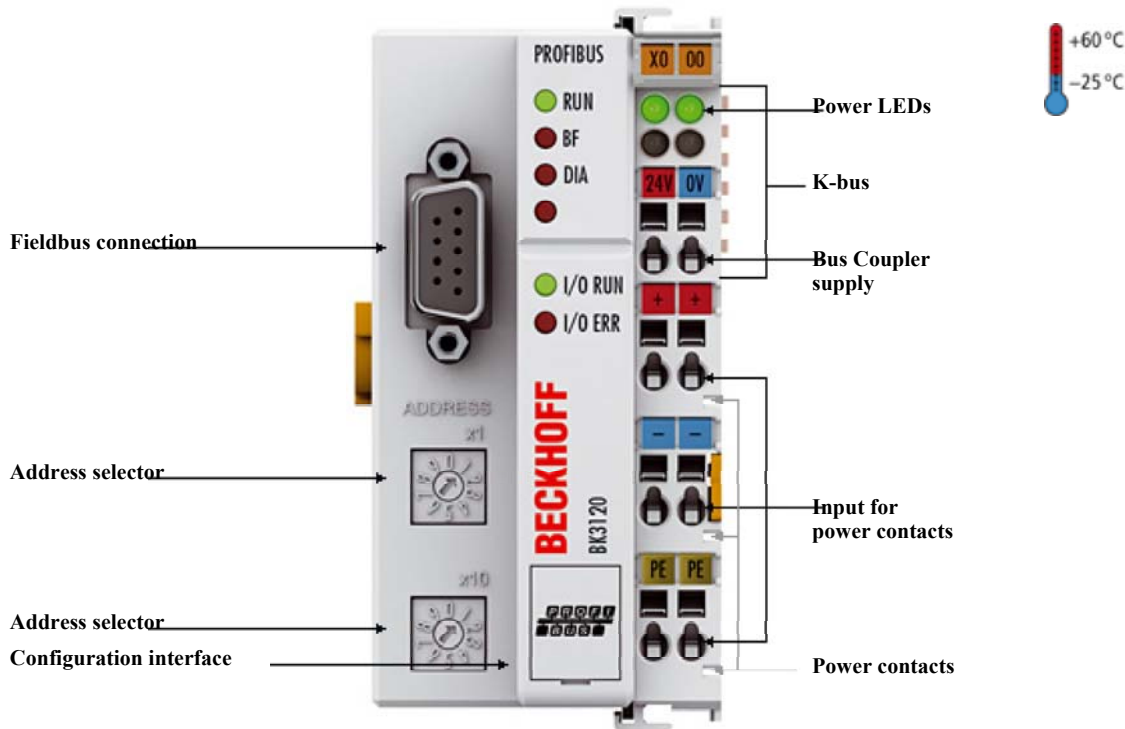


PROFIBUS

BK3120



BK3120 | PROFIBUS “Economy plus” Bus

The “Economy plus” version extends the existing PROFIBUS Bus Coupler series BK3120 to allow the connection of up to 255 spatially distributed Bus Terminals to one Bus Coupler to accommodate automation requirements. The PROFIBUS protocols omit FMS operation to accommodate more user data in DP mode, which for this Bus Coupler type can be 128 byte inputs and 128 byte outputs. These services allow direct access to the I/O data of the Bus Terminals in order, for example, to change the parameterisation or to set/correct line

Baud rates of up to 12 Mbaud are automatically recognised by the Bus Coupler, allowing the transmission of data of the particular technical process.

System data	PROFIBUS BK3120			
Number of I/O stations	100 with repeater			
Number of I/O points	approx. 6,000, depending on the master			
Data transfer medium	shielded copper cable, 2 x 0.25 mm ²			
Max. cable length	1,200 m	1,000 m	400 m	200 m
Data transfer rates	9.6/19.2/ 93.75 kbaud	187.5 kbaud	500 kbaud	1,500 kbaud
Data transfer time	approx. 3 ms (10 stations for 32 bit input and output each)			approx. 3 ms
Technical data	BK3120			
Number of Bus Terminals	64 (255 with K-bus extension)			
Max. number of bytes fieldbus	128 byte input and 128 byte output			

Data transfer rates	automatic detection up to 12 Mbaud
Bus interface	1 x D-sub 9-pin socket with shielding
Power supply	24 V DC (-15 %/+20 %)
Input current	70 mA + (total K-bus current)/4, 500 mA max.
Current supply K-bus	1,750 mA
Power contacts	24 V DC max./10 A max.
Electrical isolation	500 V (power contact/supply voltage/fieldbus)
Weight	approx. 170 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, GL

Accessories

KS2000	configuration software for extended parameterisation
Cordsets	cordsets and connectors
FC310x	PC Fieldbus Cards with PCI interface

Ordering information	Description
BK3120	PROFIBUS “Economy plus” Bus Coupler for up to 64 Bus Terminals (255 w
BK3010	PROFIBUS Bus Coupler for up to 64 digital Bus Terminals, 1.5 Mbaud
BK3100	PROFIBUS DP/FMS Bus Coupler for up to 64 Bus Terminals, 12 Mbaud
BK3110	PROFIBUS Bus Coupler for up to 64 digital Bus Terminals, 12 Mbaud
BK3150	PROFIBUS “Compact” Bus Coupler for up to 64 Bus Terminals (255 with K
BK3520	PROFIBUS “Economy plus” Bus Coupler for up to 64 Bus Terminals (255 w
LC3100	PROFIBUS “Low Cost” Bus Coupler for up to 64 digital Bus Terminals, 12 M
CX8031	PROFIBUS Embedded PC

System

PROFIBUS	For further PROFIBUS products please see the system overview
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