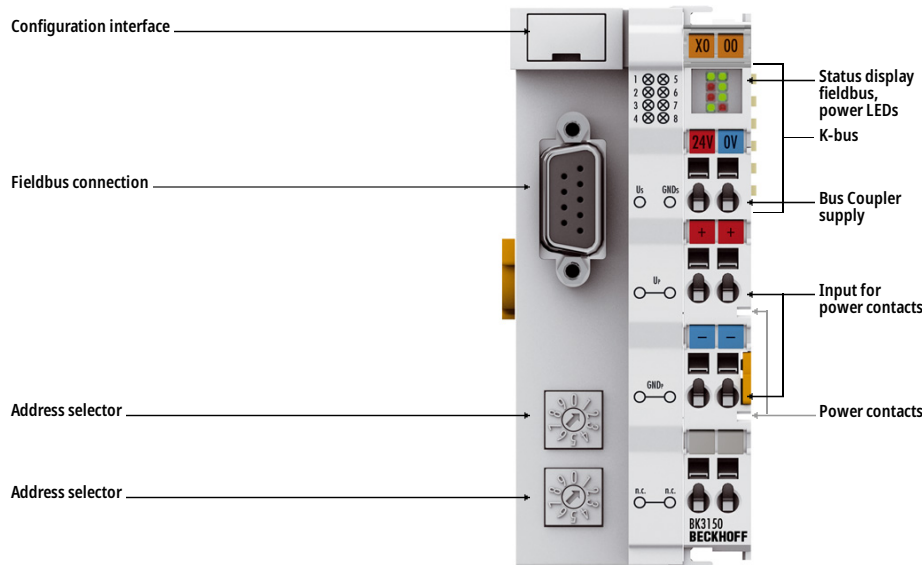


BK3150 | PROFIBUS Compact Bus Coupler



i Product status: regular delivery

The Compact Bus Coupler BK3150 for PROFIBUS extends the Beckhoff Bus Terminal system by a cost-optimized 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 PROFIBUS Bus Coupler offers automatic baud rate detection up to 12 Mbaud and two address selection switches for address assignment. For the fieldbus connection, a D-sub 9-pin socket for the ZS1031-3000 or ZB3100 PROFIBUS connectors is available.

Product information

Technical data

System data	PROFIBUS BK3150
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 100 m
Data transfer rates	9.6/19.2/93.75 kbaud 187.5 kbaud 500 kbaud 1,500 kbaud ...3, 6, 12 Mbaud

Technical data	BK3150
Number of Bus Terminals	64 (255 with K-bus extension)

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	1750 mA
Power contacts	max. 24 V DC/max. 10 A
Electrical isolation	500 V (power contact/supply voltage/fieldbus)
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. rating/installation pos.	IP20/variable
Approvals/markings	CE, UL, ATEX, IECEx
Ex marking	ATEX: II 3 G Ex nA IIC T4 Gc IECEx: Ex ec IIC T4 Gc

Housing data	BKxx50, BCxx50
Design form	compact terminal housing with signal LEDs
Material	polycarbonate
Dimensions (W x H x D)	44 mm x 100 mm x 68 mm
Installation	on 35 mm DIN rail, conforming to EN 60715 with lock
Side by side mounting by means of	double slot and key connection
Marking	labeling of the BZxxx series
Wiring	solid conductor (e), flexible conductor (f) and ferrule (a): spring actuation by screwdriver
Connection cross-section	s*: 0.08...2.5 mm ² , st*: 0.08...2.5 mm ² , f*: 0.14...1.5 mm ²
Stripping length	8...9 mm
Current load power contacts	I _{max} : 10 A

*s: solid wire; st: stranded wire; f: with ferrule