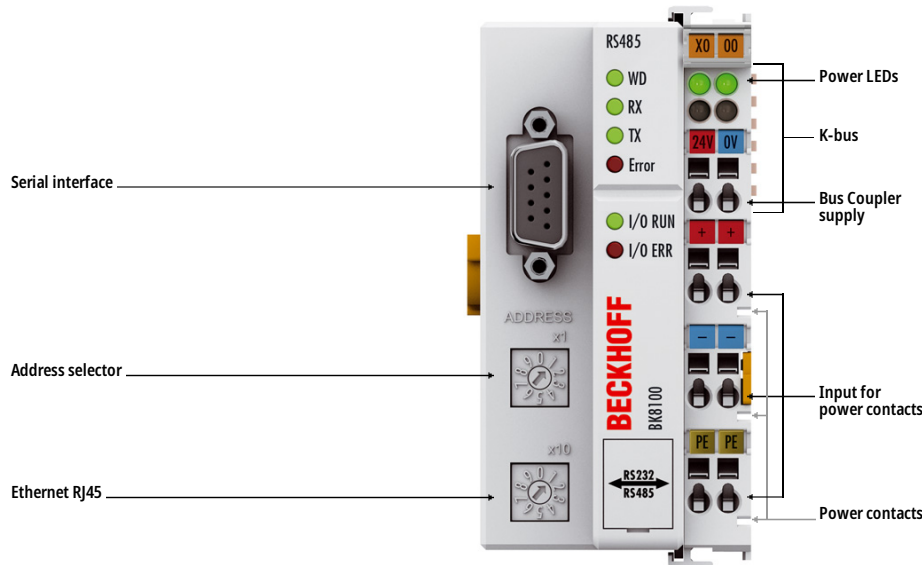


BK8100 | RS485/RS232 Bus Couplers



i Product status: regular delivery

The BK8100 Bus Coupler uses the physics of the RS232C (V.24) specification for data transmission. Application of the Bus Coupler with a serial interface is suited to those cases in which the use of a fieldbus system can be omitted. The RS232 interface can be used by any automation device with the corresponding interface to gain access to the Bus Coupler. Data exchange is made via an open, documented protocol.

Another mode of operation is for the Bus Coupler to function in master/slave mode as a fieldbus multiplexer. The input data from one device are copied directly to the outputs of the other, without the aid of an additional master – and vice versa.

The BK8100 Bus Coupler has an RS232C interface, and has been designed particularly for peer-to-peer connection.

Product information

Technical data

System data	RS232 BK8100
Number of I/O stations	1 (peer-to-peer connection)
Number of I/O points	depending on controller
Data transfer medium	shielded copper cable 3 x 0.25 mm ² (RS232)
Max. cable length	15 m
Data transfer rates	9.6 kbaud, 19.2 kbaud, 38.4 kbaud

Technical data	BK8100
Number of Bus Terminals	64
Max. number of bytes fieldbus	512 byte input and 512 byte output
Digital peripheral signals	512 inputs/outputs
Analog peripheral signals	256 inputs/outputs
Protocol	open, documented protocol
Configuration possibility	via KS2000
Bus interface	RS232 D-sub
Power supply	24 V DC (-15 %/+20 %)
Input current	70 mA + (total K-bus current)/4, 500 mA max.
Starting current	2.5 x continuous current
Recommended fuse	≤ 10 A
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. 170 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. rating/installation pos.	IP20/variable
Approvals/markings	CE, UL, ATEX, IECEx, DNV GL
Ex marking	ATEX: II 3 G Ex nA IIC T4 Gc IECEx: Ex ec IIC T4 Gc

Housing data	BKxxxx, BCxxxx
Design form	compact terminal housing with signal LEDs
Material	polycarbonate
Dimensions (W x H x D)	51 mm x 100 mm x 69 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

Ordering information

Ordering information	
BK8100	RS232 Bus Coupler for up to 64 Bus Terminals
BK8100-0060	RS232 Bus Coupler for up to 64 Bus Terminals, watchdog special setting 60 s
BK8100-1001	RS232 Bus Coupler for up to 64 Bus Terminals, watchdog special setting 10 s