



## BK7150 | CC-Link “Compact” Bus Coupler



The “Compact” Bus Coupler BK7150 connects the CC-Link system to the electronic terminal blocks, which can be extended in modular fashion. One unit consists of the Bus Coupler, any number of up to 64 terminals and one end terminal. The K-bus extension technology allows the connection of up to 255 spatially distributed Bus Terminals to one Bus Coupler.

The Bus Coupler recognises the connected terminals and automatically generates the affiliations of the inputs/outputs to the bytes of the process image. The first input/output signal is inserted in the first bit of one byte (LSB), beginning from the left. The Bus Coupler inserts further signals in this byte. Inputs and outputs are clearly separated. The Bus Coupler automatically begins a further byte if the number of controller inputs or outputs exceeds 8 bits.

CC-Link is an open fieldbus system. Baud rates up to 10 Mbaud can be selected via a switch, so that the transfer speed can be adapted to the requirement of the technical process.

System data	CC-Link   BK7150				
Number of I/O stations	64 (per link)				
Number of I/O points	depending on controller				
Data transfer medium	shielded 3-core, twisted pair cable				
Max. cable length	1,200 m	900 m	400 m	160 m	100 m
Data transfer rates	156 kbaud	625 kbaud	2.5 Mbaud	5 Mbaud	10 Mbaud

Technical data	BK7150
Number of Bus Terminals	64 (255 with K-bus extension)
Max. number of bytes fieldbus	32 byte input and 32 byte output
Digital peripheral signals	112 inputs/outputs
Analog peripheral signals	16 inputs/outputs
Configuration possibility	via KS2000
Data transfer rates	156 kbaud...10 Mbaud
Bus interface	1 x open style connector, 5-pin, included
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	1000 mA
Power contacts	24 V DC max./10 A max.
Electrical isolation	500 V (power contact/supply voltage/fieldbus)
Weight	approx. 100 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

Accessories	
KS2000	configuration software for extended parameterisation
<b>Cordsets</b>	cordsets and connectors

Ordering information	Description
BK7150	CC-Link "Compact" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)