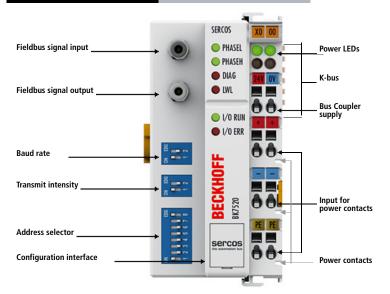
SERCOS BK7520



BK7520 | SERCOS II Bus Coupler

Sercos the automation bus The BK7520 Bus Coupler connects the SERCOS bus system with the electronic terminal blocks, which can be extended in modular fashion. One unit consists of one Bus Coupler, any number from 1 to 64 terminals and one end terminal. The BK7520 allows, with the K-bus extension technology, the connection of up to 255 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.

SERCOS is a fibre optic bus that was developed for use in drive technology as a digital drive interface for drives. SERCOS is an open fieldbus system, which since 1995 has been subject to the international standard IEC 61491 for numerically controlled machines. It is widely used in the drive technology sector.

The bus consists of a master and of a number of slaves. In SERCOS, most of the slaves are drive amplifiers. The bus topology is a ring system, in which it is possible to operate up to 254 stations. The transmission speed is 2 and 4 Mbaud. The BK7520 supports additionally 8 and 16 Mbaud. There are basically three types of telegrams. The master SYNC telegram is received by all the slaves at the same time, and is used for synchronisation. The master data telegram is also received by all the slaves, and contains the cyclic data and the service data. The slaves send their data in what is known as a drive telegram.

Parameterisation can also be carried out via the SERCOS interface.

System data	BK7520
Number of I/O stations	254
Number of I/O points	depending on controller
Data transfer medium	1,000 µm plastic fibre optic
Distance between stations	40 m plastic fibre optic
Data transfer rates	2/4/8/16 Mbaud

Technical data	BK7520
Number of Bus Terminals	64 (255 with K-bus extension)
Max. number of bytes fieldbus	254 word I/O for the cyclic interface (depending on the master)
Digital peripheral signals	1,020 inputs/outputs
Analog peripheral signals	254 inputs/outputs
Configuration possibility	via KS2000
Data transfer rates	2/4/8/16 Mbaud, adjustable by means of configuration switch
Bus interface	F-SMA standard, IEC 872-2
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	24 V DC max./10 A max.
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. class/installation pos.	IP 20/variable
Approvals	CE, UL, Ex

Accessories	
KS2000	configuration software for extended parameterisation
Cordsets	cordsets and connectors
FC7501 FC7502	SERCOS PCI fieldbus cards

Related products	
BK7500	SERCOS interface Bus Coupler for up to 64 Bus Terminals

System	
SERCOS	For further SERCOS products please see the system overview