



LC5100 | CANopen “Low Cost” Bus Coupler

CANopen The LC5100 “Low Cost” Bus Coupler is marked by a smaller design and a more economical connection method. Its functions correspond to those of the BK5110 CAN Bus Coupler in relation to operation with Bus Terminals and to the fieldbus properties. Up to 64 digital input/output terminals can be connected. The firmware can be updated via the configuration interface.

The LC5100 Bus Coupler is particularly suitable for use in small, low-price stations. The 24 V DC supply voltage feeds the peripheral devices via the power contacts, as well as the Bus Coupler electronics and the K-bus electronics. Electrical isolation from the I/O level is omitted from the Bus Coupler, but can if necessary be implemented by means of a power feed terminal.

The LC5100 Bus Coupler can be replaced by a Bus Coupler from the BK5110 series.

“Low Cost” Bus Coupler for digital signals

All the bit-oriented terminals can be connected to the “Low Cost” Bus Coupler. All the digital input and output terminals are supported with the exception of the KL15xx, KL25x2, KL2692 and KL27x1 terminals. All the system terminals, with and without diagnostics, can also be connected.

System data	CANopen LC5100							
Number of I/O stations	64							
Number of I/O points	depends on the structure							
Data transfer medium	screened, twisted copper cable, 2 x signal, 1 x ground (recommended)							
Max. cable length	5,000 m	2,500 m	1,000 m	500 m	250 m	100 m	40 m	
Data transfer rates	10 kbaud	20 kbaud	50 kbaud	100/125 kbaud	250 kbaud	500 kbaud	1,000 kbaud	
PDO modes	synchron, cyclic, event driven, polling							

Technical data	LC5100
Number of Bus Terminals	64
Max. number of bytes fieldbus	5 Tx/Rx PDOs
Additional CANopen features	life, node guarding, emergency object, variable mapping, store/restore
Data transfer rates	up to 1 Mbaud
Bus interface	connection via Bus Terminal
Power supply	24 V DC (-15 %/+20 %)
Current supply K-bus	500 mA
Electrical isolation	none between power supply/fieldbus/power contacts
Connection method	directly to spring-loaded terminals
Dimensions (W x H x D)	similar to the Bus Terminal housing, width 21 mm
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
Cordsets	cordsets and connectors
FC5101 FC5102	CANopen PCI fieldbus cards

Related products	
BK5110	CANopen Coupler for up to 64 digital Bus Terminals
BK5120	CANopen "Economy plus" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)
BK5150	CANopen "Compact" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)
BK5151	CANopen "Compact" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension)
BC5150	CANopen "Compact" Bus Terminal Controller for up to 64 Bus Terminals (255 with K-bus extension)
BX5100	CANopen Bus Terminal Controller for up to 64 Bus Terminals (255 with K-bus extension)
CX8051	CANopen Embedded PC, slave

System	
CANopen	For further CANopen products please see the system overview