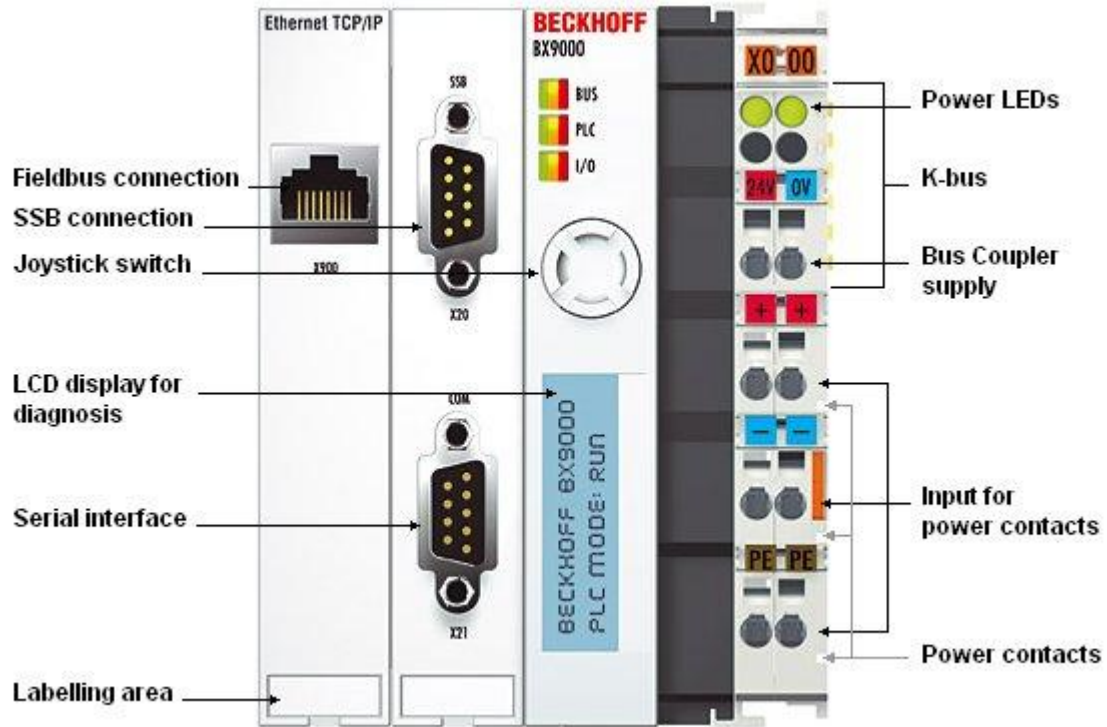



Technical Data - Ethernet

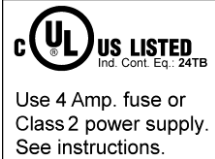


System data	Ethernet (BX9000)
Number of I/O modules	only limited by the IP address range
Number of I/O points	depending on controller
Data transfer medium	4 x 2 twisted pair copper cable; category 3 (10 MBaud), category 5 (100 MBaud)
Distance between modules	100 m (distributor hub to BC9000)
Data transfer rate	10/100 MBaud
Topology	star wiring

Technical Data - BX

Technical data	
Processor	16 bit micro-controller

Diagnostic LEDs	2 x power supply, 2 x K-Bus
Display	FSTN 2 x 16 lines display for diagnosis or own texts, illuminated
Switch	Joystick switch for parameterization and diagnosis
Clock	battery-backed internal clock for time and date
Configuration and programming software	TwinCAT PLC
Fieldbus interface	
Fieldbus	Ethernet
Interfaces	
Serial interface	COM1 (RS232 for configuration and programming, automatic baud rate detection 9600/19200/38400/57600 baud) COM2 (RS232 or RS485) for the connection of serial devices
SSB	CANopen-based sub-bus interface
Terminal Bus (K-Bus)	64 (255 with K-Bus extension)
Technical data	
Digital peripheral signals	2040 inputs/outputs
Analog peripheral signals	1024 inputs/outputs
Configuration possibility	via TwinCAT or the controller
Maximum fieldbus byte number	depending on fieldbus
Maximum number of bytes - PLC	2048 bytes of input data, 2048 bytes of output data
Fieldbus connection	RJ45
Power supply (Us)	24 V _{DC} (-15%/+20%) To meet the UL requirements use a 4 A fuse or a power supply that has to satisfy <i>NEC class 2!</i>
 <p>Use 4 Amp. fuse or Class 2 power supply. See instructions.</p>	
Input current (Us)	180 mA + (total K-Bus current)/4
Starting current (Us)	app. 2.5 x continuous current

K-Bus current (5 V)	maximum 1450 mA
Power contact voltage (Up)	maximum 24 V _{DC} . To meet the UL requirements use a 4 A fuse or a power supply that has to satisfy <i>NEC class 2!</i>
	
Power contact current load (Up)	maximum 10 A
Dielectric strength	500 V _{rms} (power contact / supply voltage / fieldbus)
Permissible temperature range during operation	0°C... +55°C
Permissible temperature range during storage	-25°C... +85°C
Relative humidity	95 % no condensation
Vibration / shock resistance	according to EN 60068-2-6 / EN 60068-2-27, EN 60068-2-29
EMC resistance burst / ESD	conforms to EN 61000-6-2 / EN 61000-6-4
Protection class	IP20
Mechanical data	
Weight	app. 170 g
Dimensions (W x H x D)	app. 83mm x 100mm x 90mm (BX8000: app. 65mm x 100mm x 90mm)
Mounting	with locking mechanism on mounting rail (32 mm DIN rail)
Installation position	any
terminal cross-section	0,08 mm ² ... 2,5 mm ² AWG 28-14 8-9 mm strip length

Technical Data - PLC

PLC data	
Programmability	Via the programming interface (COM1 or COM2) or via Fieldbus

Program memory	256 kbyte
Source code memory	256 kbyte
Data memory	256 kbyte
Remanent flags	2 kbyte
PLC cycle time	Approx. 0,85 ms for 1000 IL commands (without I/O cycle)
Programming languages	IEC 6-3 (IL, LD, FBD, ST, SFC)
Run time	1 PLC task (second task is in preliminary)
Online Change	Yes
Up/Down Load Code	Yes/Yes