


# Bus module CPX-E-PB

Part number: 4080496

FESTO



## Data sheet

 General operating condition

Feature	Value
Dimensions W x L x H	42.2 mm x 76.5 mm x 125.8 mm
Width dimension	18.9 mm
Type of mounting	With H-rail
Max. number of modules	10
Product weight	145 g
Mounting position	Vertical Horizontal
Ambient temperature	-5 °C ... 50 °C
Note on ambient temperature	-5 - 60 °C for vertical installation
Storage temperature	-20 °C ... 70 °C
Relative air humidity	95 % Non-condensing
Degree of protection	IP20
Corrosion resistance class (CRC)	0 - No corrosion stress
Vibration resistance	Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27
Protection against direct and indirect contact	PELV
LABS (PWIS) conformity	VDMA24364 zone III
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
KC characters	KC EMC
Certification	RCM compliance mark c UL us - Listed (OL)
Certificate issuing authority	UL E239998
Note on materials	RoHS-compliant
Housing material	PA
Diagnostics via LED	Bus error Force mode Module status Power supply for electronics/sensors Load power supply System fault

Feature	Value
Diagnostics via bus	Wire break Short circuit Parameterization error Buffer overflow Upper limit value violated Transmission error Lower limit value not complied with Undervoltage Watchdog/I/O status Requested function not supported Not ready for data exchange
Control elements	DIL switch
Fieldbus interface, type	PROFIBUS
Fieldbus interface, protocol	PROFIBUS DP
Fieldbus interface, function	Bus connection, incoming/forwarding
Fieldbus interface, connection type	Socket
Fieldbus interface, connection technology	Sub-D
Fieldbus interface, connection pattern	00995638
Fieldbus interface, number of poles/wires	9
Fieldbus interface, galvanic isolation	yes
Fieldbus interface, transmission rate	1.5 Mbit/s 12 Mbit/s 187.5 kbit/s 19.2 kbit/s 3 Mbit/s 500 kbit/s 6 Mbit/s 9.6 kbit/s 93.75 kbit/s
Service interface, function	Diagnostics and parameterization
Service interface, connection type	Socket
Service interface, connection technology	USB 2.0 type B, mini
Service interface, number of poles/wires	5
Service interface, connection pattern	00995868
Max. address capacity inputs	64 byte
Fieldbus interface, max. address volume for inputs	64 byte
Information on inputs	62 bytes with I/O diagnostic interface 63 bytes with status bits 64 bytes without diagnostics
Max. address capacity outputs	64 byte
Fieldbus interface, max. address volume for outputs	64 byte
Note on outputs	62 bytes with I/O diagnostic interface 64 bytes with status bits 64 bytes without diagnostics
System parameter	Diagnostic memory Fail-safe response Force mode System start
Module parameters	Undervoltage diagnostics Analog module process value representation
Configuration support	GSD file
Power supply, function	Electronics and sensors
Power supply, type of connection	Terminal strip
Power supply, note on connection type	> 4 A and UL 2x terminal strip for power supply
Power supply, connection technology	Spring-loaded terminal
Power supply, connection pattern	00995847
Power supply, number of pins/wires	4
Nominal operating voltage DC for electronics/sensors	24 V
Permissible voltage fluctuations for electronics/sensors	± 25 %
Power supply, conductor diameter	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>

<b>Feature</b>	<b>Value</b>
Power supply, information on conductor diameter	0.2 - 2.5 mm <sup>2</sup> for flexible conductors without cable end sleeves
Max. power supply	8 A
Intrinsic current consumption at nominal operating voltage for electronics/sensors	Typically 75 mA
Power failure buffering	20 ms
Reverse polarity protection	24 V sensor supply against 0 V sensor supply