

# Bus module CPX-E-PB

Part number: 4080496

FESTO



## Data sheet

Feature	Value
Dimensions (W x L x H)	42.2 mm x 76.5 mm x 125.8 mm
Grid 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 to FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27
Protection against direct and indirect contact	PELV
LABS (PWIS) conformity	VDMA24364 zone III
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
CE marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
KC mark	KC-EMV
Approval	RCM trademark c UL us listed (OL)
Certificate issuing authority	UL E239998
Note on materials	RoHS-compliant
Material housing	PA
Diagnostics via LED	Bus fault Force mode Power supply, electronics/sensors Load power supply System fault

Feature	Value
Diagnostics via bus	Wire break Short circuit Parameterisation error Overflow buffer Upper limit value violated Transmission error Lower limit value not observed Undervoltage Watchdog/I/O status Requested function not supported Not ready for data exchange
Operator controls	DIL switch
Fieldbus interface	PROFIBUS
Field bus, protocol	PROFIBUS DP
Field bus, connection type	Socket
Field bus, connection system	Sub-D
Field bus, connection pattern	9
Field bus interface, electrical isolation	yes
Field bus interface, transmission rate	1.5 Mbps 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 parameterisation
Service interface, connection type	Socket
Service interface, connection technology	USB 2.0 type B mini
Service interface, number of pins/wires	5
Max. address volume, inputs	64 Byte
Fieldbus interface, max. address volume for inputs	64 Byte
Note on inputs	62 bytes with I/O diagnostic interface 63 bytes with status bits 64 bytes without diagnostics
Max. address volume, 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 parameters	Diagnostic memory Fail-safe response Force mode System start
Module parameters	Undervoltage diagnostics Process value representation of analogue modules
Configuration support	GSD file
Power supply, function	Electronics and sensors
Power supply, connection type	Terminal strip
Power supply, note on connection type	> 4 A and UL 2x terminal strip for power supply
power supply, connection system	Spring-loaded terminal
Power supply, number of pins/wires	4
Nominal DC operating voltage, 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>
Power supply, note on conductor diameter	0.2 - 2.5 mm <sup>2</sup> for flexible conductors without wire end sleeves
Max. power supply	8 A
Intrinsic current consumption at nominal operating voltage for electronics/sensors	Typically 75 mA

<b>Feature</b>	<b>Value</b>
Power failure bridging	20 ms
Reverse polarity protection	24 V sensor supply against 0 V sensor supply