

# PROFIBUS interface CPX-AP-I-PB-M12

Part number: 8086608

FESTO



 General operating condition

## Data sheet

Feature	Value
Dimensions (W x L x H)	45 mm x 170 mm x 35 mm
Type of mounting	On DIN rail via accessories With through-hole
Max. number of modules	56
Product weight	186 g
Ambient temperature	-20 °C ... 60 °C
Storage temperature	-40 °C ... 70 °C
Relative air humidity	5 - 95% Non-condensing
Degree of protection	IP65 IP67
Note on degree of protection	Unused connections sealed
Corrosion resistance class CRC	1 - Low corrosion stress
Max. cable length	50 m system communication
LABS (PWIS) conformity	VDMA24364-B2-L
Cleanroom suitability, measured according to ISO 14644-14	Element installed statically, no meaningful evaluation possible according to ISO 14644-1
CE mark (see declaration of conformity)	To EU EMC Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC
KC mark	KC-EMV
Approval	RCM c UL us - Listed (Oil)
Certificate issuing authority	UL E239998
Note on materials	RoHS compliant
Material housing	Makrolon® Nickel-plated die-cast zinc
Material o-ring	Fluoro rubber
Diagnostics via LED	Diagnostics per module Power supply, electronics/sensors Load power supply System diagnostics Maintenance required
Diagnostics via bus	APDD invalid Switch-off load supply Communication with AP module interrupted Electronics/sensors overvoltage Load overvoltage Electronics/sensors undervoltage Load undervoltage
Note on fieldbus interface	Terminating resistor at socket possible

Feature	Value
Fieldbus interface	PROFIBUS
Field bus, protocol	PROFIBUS DP-V1
Fieldbus interface, function	Incoming bus connection
Field bus, connection type	Plug
Field bus, connection system	M12x1, B-encoded to EN 61076-2-101
Field bus, connection pattern	5
Field bus interface, electrical isolation	Yes
Field bus interface, transmission rate	1.5 Mbps 12 Mbit/s 187.5 kbps 19.2 kbps 3 Mbit/s 500 kbps 6 Mbit/s 9.6 kbps 93.75 kbps
Fieldbus interface 2, type	PROFIBUS
Fieldbus interface 2, protocol	PROFIBUS DP-V1
Fieldbus interface 2, function	Bus connection continuing
Fieldbus interface 2, connection type	Socket
Fieldbus interface 2, connection technology	M12x1, B-encoded to EN 61076-2-101
Fieldbus interface 2, number of pins/wires	5
Fieldbus interface 2, galvanic isolation	Yes
Fieldbus interface 2, transmission rate	1.5 Mbps 12 Mbit/s 187.5 kbps 19.2 kbps 3 Mbit/s 500 kbps 6 Mbit/s 9.6 kbps 93.75 kbps
Max. address volume, inputs	244 Byte
Max. address volume, outputs	244 Byte
Configuration support	GSD file
Communication interface, function	System communication XF20 OUT / XF21 OUT
Communication interface, connection type	2x socket
Communication interface, connection technology	M8x1, D-coded according to EN 61076-2-114
Communication interface, number of pins/cores	4
Communication interface, protocol	AP
Communication interface, screened	Yes
Power supply, function	Incoming electronics/sensors and load
Power supply, connection type	Plug
power supply, connection system	M8x1, A-coded to EN 61076-2-104
Power supply, number of pins/wires	4
Power transmission, function	Outgoing electronics/sensors and load
Power transmission, connection type	Socket
Power transmission, connection technology	M8x1, A-coded to EN 61076-2-104
Power transmission, number of pins/wires	4
Note regarding operating voltage	SELV/PELV fixed power supplies required Note the voltage drop
Nominal operating voltage DC of load	24 V
Permissible voltage fluctuation of load	±25%
Nominal DC operating voltage, electronics/sensors	24 V
Permissible voltage fluctuations for electronics/sensors	±25%
Max. power supply	2 x 4 A (external fuse required)
Intrinsic current consumption at nominal operating voltage for electronics/sensors	Typically 80 mA

<b>Feature</b>	<b>Value</b>
Intrinsic current consumption at nominal operating voltage load	Typically 5 mA
Power failure bridging	10 ms
Reverse polarity protection	Yes