

EtherNet/IP interface CPX-AP-A-EP-M12

Part number: 8129244

FESTO



 [General operating condition](#)

Data sheet

Feature	Value
Dimensions (W x L x H)	50.1 mm x 107.3 mm x 57.5 mm
Grid dimension	50.1 mm
Type of mounting	Screw-clamped
Max. number of modules	80
Product weight	113 g
Mounting position	Any
Ambient temperature	-20 °C ... 50 °C
Note on ambient temperature	Observe ambient temperature derating according to IEC 61131-2:2017
Storage temperature	-20 °C ... 70 °C
Relative air humidity	5 - 95% Non-condensing
Nominal altitude of use	≤ 2000 m ASL (≥ 79.5 kPa)
Max. installation height	3500 m
Note on max. installation height	Observe ambient temperature derating according to IEC 61131-2:2017
Corrosion resistance class CRC	1 - Low corrosion stress
Vibration resistance	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6
Note on vibration resistance	SG1 on DIN rail SG2 on direct mounting Transport application test with severity class 1 to FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Note on shock resistance	30 g/11 ms to EN 60068-2-27 SG1 on DIN rail SG2 on direct mounting Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27
Protection class	III
Pollution degree	2
Overvoltage category	II
Max. cable length	100 m Ethernet/IP
LABS (PWIS) conformity	VDMA24364-B2-L
Fire test material	UL94 V-0 (housing)
Note on materials	RoHS compliant Free of halogen Free of phosphoric acid ester
Material cover	Reinforced PBT
Material screen	Makrolon®
Material screws	Nickel-plated steel

Feature	Value
Material threaded sleeve	High-alloy stainless steel
Material o-ring	Fluoro rubber
Diagnostics via LED	Diagnostics per module Ethernet/IP communication Power supply, electronics/sensors Load power supply System diagnostics Maintenance required
Diagnostics via bus	APDD invalid Switch-off load supply Communication error Electronics/sensors overvoltage Load overvoltage Electronics/sensors undervoltage Load undervoltage
Fieldbus interface	Ethernet
Field bus, protocol	ACD (Address Conflict Detection) DLR (Device Level Ring) EtherNet/IP EtherNet/IP QoS EtherNet/IP Quickconnect Modbus/TCP (Modbus/UDP) SNMP
Fieldbus interface, function	Bus connection incoming/outgoing
Field bus, connection type	2x socket
Field bus, connection system	M12x1, D-coded to EN 61076-2-101
Fieldbus interface, connection pattern	00995716
Field bus, connection pattern	4
Field bus interface, electrical isolation	Yes
Field bus interface, transmission rate	100 Mbit/s
Fieldbus interface, note on transmission rate	100 Mbit, fast switching Ethernet
Max. address volume, inputs	4096 Byte
Note on inputs	EP: 488 bytes Modbus: 4096 bytes
Max. address volume, outputs	4096 Byte
Note on outputs	EP: 496 bytes Modbus: 4096 bytes
Module parameters	Configuration of voltage monitoring load supply PL
Internal cycle time	< 1 ms
Configuration support	EDS file
Communication interface, function	System communication XF20 OUT
Communication interface, connection type	Socket
Communication interface, connection technology	M8x1, D-coded according to EN 61076-2-114
Communication interface, number of pins/cores	4
Communication interface, plug pattern	00995937
Communication interface, protocol	AP
Communication interface, screened	Yes
Note regarding operating voltage	SELV/PELV fixed power supplies required Note the voltage drop
Note on nominal operating voltage DC	Protected Extra-Low-Voltage to IEC 60204-1
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%
Intrinsic current consumption at nominal operating voltage for electronics/sensors	Typically 95 mA
Intrinsic current consumption at nominal operating voltage load	Typically 3 mA
Power failure bridging	10 ms

Feature	Value
Potential separation between the supply voltages electronics/sensor technology and load/valves	Yes
Reverse polarity protection	Yes