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

Part number: 8129244

FESTO

Data sheet

Feature	Value
Dimensions W x L x H	(including interlinking block) 50,1 mm x 107,3 mm x 57,5 mm
Grid dimension	50.1 mm
Mounting type	Tightened
Max. no. of modules	80
Product weight	113 g
Assembly position	Any
Ambient temperature	-20 ... 50 °C
Note on ambient temperature	Note ambient temperature derating according to IEC 61131-2:2017
Storage temperature	-20 ... 70 °C
Relative air humidity	5 - 95 % non-condensing
Nominal altitude of use	<= 2000 m ASL (> 79,5 kPa)
Max. installation height	3,500 m
Note on max. installation height	> 2000 m ASL (< 79,5 kPa) Note ambient temperature derating according to IEC 61131-2:2017
Corrosion resistance classification CRC	1 - Low corrosion stress
Vibration resistance	Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6
Note on vibration resistance	SG1 on H-rail SG2 on direct mounting Transport application test at severity level 1 in accordance with FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27
Note on shock resistance	30 g/11 ms to EN 60068-2-27 SG1 on H-rail SG2 on direct mounting Shock test with severity level 1 in accordance with FN 942017-5 and EN 60068-2-27
Safety class	III
Degree of contamination	2
Overvoltage category	II
Max. line length	100 m Ethernet/IP
PWIS conformity	VDMA24364-B2-L
Material fire test	UL94 V-0 (housing)
Materials note	Conforms to RoHS Halogen-free Free of phosphoric acid ester
Material housing	PC
Material cover	PBT-reinforced
Material screen	PC
Material screws	Steel, nickel-plated
Material threaded sleeve	High alloy steel, non-corrosive
Material o-ring	FPM
Diagnostics via LED	Diagnostics per module

Feature	Value
	Ethernet/IP communication Power supply electronics/sensors Power supply load System diagnostics Maintenance required
Diagnostics via bus	Communication error Load switch-off Load overvoltage Load undervoltage Electronics/sensors overvoltage Electronics/sensors undervoltage APDD invalid
Fieldbus interface	Ethernet
Fieldbus interface, protocol	ACD (Addr. Conflict Detection) DLR (Device Level Ring) EtherNet/IP EtherNet/IP QoS EtherNet/IP Quickconnect Modbus/TCP (Modbus/UDP) SNMP
Fieldbus interface, type of connection	2x socket
Fieldbus interface, connection technology	M12x1, D-coded in accordance with EN 61076-2-101
Fieldbus interface, number of pins/wires	4
Fieldbus interface, electrical isolation	Yes
Fieldbus interface, transmission rate	100 Mbit/s
Fieldbus interface, note on transmission rate	100 Mb, switched Fast Ethernet
Maximum address volume for inputs	4,096 Byte
Note on inlets	EP: 488 Byte Modbus: 4096 Byte
Maximum address volume for outputs	4,096 Byte
Note on outputs	EP: 496 Byte Modbus: 4096 Byte
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	Plug socket
Communication interface, connection technology	M8x1, D-coded to EN 61076-2-114
Communication interface, number of pins/wires	4
Communication interface, connection pattern	00995937
Communication interface, protocol	AP
Communication interface, screening	Yes
Note regarding operating voltage	SELV/PELV fixed power supplies required Note voltage drop
Note on nominal operating voltage DC	Prot.Ext.Low-Volt. IEC 60204-1
Nominal operating voltage, DC outputs	24 V
Permissible voltage fluctuations, load	± 25 %
Nominal operating voltage DC for electronics/sensors	24 V
Permissible voltage fluctuations for electronics/sensors	± 25 %
Intrinsic current consumption at nominal operating voltage for electronics/sensors	typ. 95 mA
Intrinsic current consumption at nominal operating voltage load	typ. 3 mA
Power failure buffering	10 ms
Potential separation between the supply voltages electronics/sensors and load/valves	Yes
Polarity protected	Yes