

# EtherCAT interface CPX-AP-A-EC-M12

Part number: 8129243

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 EtherCAT
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
	EtherCAT RUN 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	EtherCAT EtherCAT CoE EtherCAT Distrib. Clocks (DC) EtherCAT EoE EtherCAT FoE EtherCAT Mod. Dev. Prof. (MDP)
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	1,024 Byte
Maximum address volume for outputs	1,024 Byte
Module parameters	Configuration of voltage monitoring load supply PL
Internal cycle time	< 1 ms
Configuration support	ESI file
Communication interface, function	System communication XF20 OUT
Communication interface, connection type	Plug socket
Communication interface, connection technology	M8x1, D-coded in accordance with 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