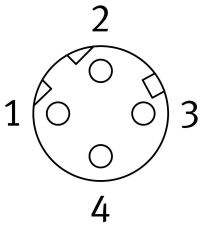
EtherCAT interface
CPX-AP-A-EC-M12

Part number: 8129243





Data sheet

Feature	Value
Dimensions W x L x H	(incl. interlinking block) 50.1 mm x 107.3 mm x 57.5 mm
Width dimension	50.1 mm
Type of mounting	Screwed on
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-condensating
Nominal altitude of use above sea level	<= 2000 m ASL (> 79.5 kPa)
Max. installation height	3500 m
Information on max. installation height	> 2000 m ASL (< 79.5 kPa) 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 as per FN 942017-4 and EN 60068-2-6
Note on vibration resistance	SG1 for DIN rail SG2 on direct mounting Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27
Note on shock resistance	30 g/11 ms as per EN 60068-2-27 SG1 on DIN rail SG2 on direct mounting Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27
Protection class	III
Contamination level	2
Overvoltage category	II
Max. cable length	100 m EtherCAT

Feature	Value
LABS (PWIS) conformity	VDMA24364-B2-L
Material fire test	UL94 V-0 (housing)
Note on materials	RoHS compliant Halogen-free Contains no phosphoric acid esters
Cover material	PBT-reinforced
Inspection window material	PC
Material of screws	Steel, nickel-plated
Threaded sleeve material	high-alloy stainless steel
O-ring material	FPM
Diagnostics via LED	Diagnostics per module EtherCAT RUN Power supply for electronics/sensors Load power supply System diagnostics Maintenance required
Diagnostics via bus	APDD invalid Load switch-off Communication error Electronics/sensors overvoltage Overvoltage load Electronics/sensors undervoltage Undervoltage load
Fieldbus interface, type	Ethernet
Fieldbus interface, protocol	EtherCAT EtherCAT CoE EtherCAT Distributed Clocks (DC) EtherCAT EoE EtherCAT FoE EtherCAT Modular Device Profile (MDP)
Fieldbus interface, connection type	2x port
Fieldbus interface, connection technology	M12x1, D-coded as per EN 61076-2-101
Fieldbus interface, number of poles/wires	4
Fieldbus interface, galvanic isolation	Yes
Fieldbus interface, transmission rate	100 Mbit/s
Fieldbus interface, note on transmission rate	100 Mbit, switched fast Ethernet
Max. address capacity inputs	1024 byte
Max. address capacity outputs	1024 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	Socket
Communication interface, connection technology	M8x1, D-coded as per EN 61076-2-114
Communication interface, number of pins/wires	4
Communication interface, protocol	AP
Communication interface, shielding	Yes
Note regarding operating voltage	SELV/PELV fixed power supplies required Note voltage drop
Note on nominal operating voltage DC	Protected Extra-Low-Voltage as per IEC 60204-1
Nominal operating voltage DC load	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	Typically 95 mA
Intrinsic current consumption at nominal operating voltage load	Typically 3 mA
Power failure buffering	10 ms

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