IO-Link master
CPX-AP-I-4IOL-M12

Part number: 8086604

General operating condition

Data sheet

Feature	Value
Protocol	IO-Link®
Dimensions (W x L x H)	30 mm x 170 mm x 35 mm
Type of mounting	On DIN rail via accessories With through-hole
Product weight	126 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
Vibration resistance	Transport application test with severity level 1 to FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27
Pollution degree	2
Overvoltage category	II
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 In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
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 channel Diagnostics per module Load power supply Status per channel Status per module

Feature	Value
Diagnostics per internal communication	IO-Link® event Short circuit/overload in sensor supply Electronics/sensors overvoltage Load overvoltage Electronics/sensors undervoltage Load undervoltage
Communication interface, function	System communication XF10 IN / XF20 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 55 mA
Intrinsic current consumption at nominal operating voltage load	Typically 5 mA
Power failure bridging	10 ms
Reverse polarity protection	Yes
Max. residual current of inputs per module	2 A
Max. residual current outputs per module	4 A
Electrical connection for IO-Link, connection type	4x socket
Electrical connection for IO-Link, connection technology	M12x1, A-coded to EN 61076-2-101
Electrical connection for IO-Link, number of pins/wires	5
IO-Link, communication	C/Q LED green
IO-Link, Number of ports	4
IO-Link, Port class	B
IO-Link, Protocol version	Master V 1.1
IO-Link, communication mode	DI, COM1. COM2. COM3. Configurable via software
IO-Link, Process data length OUT	Can be parameterised 8 - 128 bytes
IO-Link, Process data length IN	Can be parameterised 12 - 132 bytes
IO-Link, Min. cycle time	Dependent on minimum supported cycle time of the connected IO-Link® device