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 H-rail with 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 as per FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27
Contamination level	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	Statically installed element, no meaningful evaluation possible according to ISO 14644-1
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
KC characters	KC EMC
Certification	RCM compliance mark c UL us - Listed (OL)
Certificate issuing authority	UL E239998
Note on materials	RoHS-compliant
Housing material	PC Die-cast zinc, nickel-plated
O-ring material	FPM
Diagnostics via LED	Diagnostics per channel Diagnostics per module Load power supply Status per channel Status per module

Feature	Value
Diagnose 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 as per EN 61076-2-114
Communication interface, number of pins/wires	4
Communication interface, protocol	AP
Communication interface, shielding	yes
Power supply, function	Incoming electronics/sensors and load
Power supply, type of connection	Plug
Power supply, connection technology	M8x1, A-coded as per EN 61076-2-104
Power supply, number of pins/wires	4
Voltage forwarding, function	Outgoing electronics/sensors and load
Voltage forwarding, connection type	Socket
Voltage forwarding, connection technology	M8x1, A-coded as per EN 61076-2-104
Voltage forwarding, number of pins/wires	4
Note regarding operating voltage	SELV/PELV fixed power supplies required Note voltage drop
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 %
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 buffering	10 ms
Reverse polarity protection	yes
Max. residual current of inputs per module	2 A
Max. residual current of outputs per module	4 A
Electrical IO-Link® connection, connection type	4x socket
Electrical connection, IO-Link®, connection technology	M12x1, A-coded as per EN 61076-2-101
Electrical IO-Link® connection, 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 width OUT	8–128 bytes parameterizable
IO-Link®, process data width IN	12–132 bytes parameterizable
IO-Link®, minimum cycle time	Depends on minimally supported cycle time of connected IO-Link® device