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

Part number: 8086604

Data sheet

Feature	Value
Dimensions W x L x H	30 mm x 170 mm x 35 mm
Type code	CPX-AP-I
Diagnostics via LED	Diagnostics per channel Diagnostics per module Load power supply Status per channel Status per module
Diagnose per internal communication	IO-Link® event Short circuit/overload in sensor supply Electronics/sensors overvoltage Load overvoltage Electronics/sensors undervoltage Load undervoltage
Reverse polarity protection	yes
Intrinsic current consumption at nominal operating voltage for electronics/sensors	Typically 55 mA
Intrinsic current consumption at nominal operating voltage load	Typically 5 mA
Note regarding operating voltage	SELV/PELV fixed power supplies required Note voltage drop
Max. power supply	2 x 4 A (external fuse required)
Nominal operating voltage DC for electronics/sensors	24 V
Nominal operating voltage DC load	24 V
Power failure buffering	10 ms
Permissible voltage fluctuations for electronics/sensors	± 25 %
Permissible voltage fluctuations load	± 25 %
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
Certification	RCM compliance mark
KC characters	KC EMC
CE marking (see declaration of conformity)	As per EU EMC directive
Corrosion resistance class (CRC)	1 - Low corrosion stress
Storage temperature	-40 °C ... 70 °C

Feature	Value
Relative air humidity	5 - 95 % Non-condensing
Degree of protection	IP65 IP67
Note on degree of protection	Unused connections sealed
Ambient temperature	-20 °C ... 50 °C
Product weight	126 g
Protocol	IO-Link®
IO-Link®, protocol version	Master V 1.1
IO-Link®, communication mode	Configurable via software SIO, COM1 (4.8 kBd), COM2 (38.4 kBd), COM3 (230.4 kBd)
IO-Link®, port class	B
IO-Link®, number of ports	4
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
Max. cable length	20 m for IO-Link® operation 50 m system communication
IO-Link®, communication	C/Q LED green
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-COM
Communication interface, shielding	yes
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
Type of mounting	With through-hole
Note on materials	RoHS-compliant
Housing material	PA PC Die-cast zinc, nickel-plated