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

Part number: 8086604

FESTO

Data sheet

Feature	Value
Protocol	IO-Link®
Dimensions (W x L x H)	30 x 170 x 35 mm
Type of mounting	On H-rail via accessories With through-hole
Product weight	126 g
Ambient temperature	-20 °C...50 °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
Max. cable length	20 m with IO-Link® operation 50 m system communication
LABS (PWIS) conformity	VDMA24364-B2-L
Cleanroom class	Element installed statically, no meaningful evaluation possible according to ISO 14644-1
CE mark (see declaration of conformity)	To EU EMC Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC
KC mark	KC-EMV
Approval	RCM trademark c UL us listed (OL)
Certificate issuing authority	UL E239998
Note on materials	RoHS-compliant
Material housing	PA PC Die-cast zinc, nickel-plated
Material o-ring	FPM
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/wires	4
Communication interface, protocol	AP
Communication interface, shielding	yes
Power supply, function	Incoming electronics/sensors and load
Power supply, connection type	Plugs
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 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
Electrical connection for IO-Link, connection type	4 x 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 green LED
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