

# IO-Link master module CPX-E-4IOL

Part number: 4080495

FESTO



## Data sheet

 [General operating condition](#)

Feature	Value
Protocol	IO-Link®
Dimensions W x L x H	18.9 mm x 76.6 mm x 124.3 mm
Width dimension	18.9 mm
Type of mounting	With H-rail
Product weight	96 g
Mounting position	Vertical Horizontal
Ambient temperature	-5 °C ... 50 °C
Note on ambient temperature	-5 - 60 °C for vertical installation
Storage temperature	-20 °C ... 70 °C
Relative air humidity	95 % Non-condensing
Degree of protection	IP20
Corrosion resistance class (CRC)	0 - No 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
Protection against direct and indirect contact	PELV
LABS (PWIS) conformity	VDMA24364 zone III
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	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	PA
Diagnostics via LED	Faults per module Status per channel
Diagnostics via bus	Device missing/failed Wire break Module error Short circuit Parameter error Underflow/overflow Undervoltage General error
Max. address capacity outputs	1 byte

Feature	Value
No. of outputs	8
Module parameters	Deactivate sensor supply Response to short circuit/overload
Channel parameters	Deactivate actuator supply Device fault code Forcing channel x Channel mode Channel status Cycle time
Power supply, type of connection	Terminal strip
Power supply, connection technology	Spring-loaded terminal
Power supply, connection pattern	00995847
Power supply, number of pins/wires	4
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 %
Power supply, conductor diameter	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Power supply, information on conductor diameter	0.2 - 2.5 mm <sup>2</sup> for flexible conductors without cable end sleeves
Intrinsic current consumption at nominal operating voltage for electronics/sensors	Typically 50 mA
Intrinsic current consumption at nominal operating voltage load	Typically 15 mA
Reverse polarity protection	24 V load against 0 V load 24 V sensor supply against 0 V sensor supply
Characteristic curve outputs	As per IEC 61131-2, type 0.5
Switching logic at outputs	PNP (positive switching)
Reverse voltage strength, load	no
Reverse voltage strength, logic	no
Max. residual current of outputs per module	4 A
Electrical isolation between channels	no
Electrical isolation between channel and internal bus	no
Fuse protection (short circuit)	Internal electronic fuse per channel Internal electronic fuse per module
Electrical IO-Link® connection, connection type	4x terminal strip
Electrical connection, IO-Link®, connection technology	Spring-loaded terminal
Electrical IO-Link® connection, number of pins/wires	6
Electric IO-Link® connection, connection pattern	00995843
IO-Link® electrical connection, conductor cross section	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
IO-Link® electrical connection, information on conductor cross section	0.2 - 2.5 mm <sup>2</sup> for flexible conductors without cable end sleeves
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	SIO, COM1 (4.8 kBd), COM2 (38.4 kBd), COM3 (230.4 kBd) Configurable via software
IO-Link®, process data width OUT	8–32 bytes parameterizable
IO-Link®, process data width IN	8–32 bytes parameterizable
IO-Link®, minimum cycle time	Depends on minimally supported cycle time of connected IO-Link® device