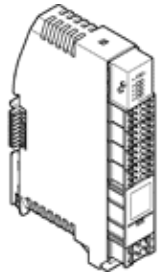
IO-Link master module
CPX-E-4IOL

Part number: 4080495



Data sheet

Feature	Value
Protocol	IO-Link
Dimensions W x L x H	18,9 mm x 76,6 mm x 124,3 mm
Grid dimension	18.9 mm
Mounting type	with top-hat rail
Product weight	96 g
Assembly position	Vertical Horizontal
Ambient temperature	-5 ... 50 °C
Note on ambient temperature	-5 - 60°C for vertical installation
Storage temperature	-20 ... 70 °C
Relative air humidity	95 % non-condensing
Protection class	IP20
Corrosion resistance classification 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 in accordance with FN 942017-5 and EN 60068-2-27
Protection against direct and indirect contact	Protective extra-low voltage with safe disconnection (PELV)
PWIS conformity	VDMA24364 zone III
CE mark (see declaration of conformity)	to EU directive for EMC 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
Authorisation	RCM Mark c UL us - Listed (OL)
Certificate issuing department	UL E239998
Materials note	Conforms to RoHS
Material housing	PA
Material screws	Galvanised steel
Diagnostics via LED	Error per module Status per channel
Diagnostics via bus	Device missing/failed Wire break Module error Short circuit Parameter error Overflow/underflow Undervoltage General error
Maximum address volume for outputs	1 Byte
No. of outputs	8
Module parameters	Short circuit diagnostics for actuator supply Behaviour after short circuit/overload Deactivate sensor supply

Feature	Value
Channel parameters	Force channel x Deactivate actuator supply Device error code Channel mode Channel status Cycle time
Power supply, type of connection	Terminal strip
Power supply, connection technology	Cage clamp terminal
Power supply, number of pins/wires	4
Nominal operating voltage, DC outputs	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 … 1.5 mm2
Power supply, note on conductor diameter	0.2 - 2.5 mm² for flexible conductors without wire 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
Polarity protected	24 V load against 0 V load 24 V sensor supply against 0 V sensor supply
Characteristic curve, outputs	to IEC 61131-2, type 0.5
Switching logic, outputs	PNP (positive-switching)
Behaviour after end of overload of the outputs	No automatic return
Reverse voltage protection, load	No
Reverse voltage protection, logic	No
Max. residual current outputs per module	4 A
Electrical isolation channel – channel	No
Electrical isolation channel – internal bus	No
Protection (short circuit)	Internal electronic fuse protection per channel Internal electronic fuse protection per module
Electrical connection for IO-Link®, connection type	4x terminal strips
Electrical connection for IO-Link®, connection technology	Cage clamp terminal
Electrical connection for IO-Link®, number of pins/wires	6
Electrical connection for IO-Link®, conductor cross section	0.2 … 1.5 mm2
Electrical connection for IO-Link®, note on conductor cross section	0.2 - 2.5 mm² for flexible conductors without wire end sleeves
IO-Link, communication	C/Q green LED
IO-Link, number of ports	4
IO-Link, port type	B
IO-Link, protocol	Master V 1.1
IO-Link, communication mode	Configurable via software SIO, COM1 (4.8 kBaud), COM2 (38.4 kBaud), COM3 (230.4 kBaud)
IO-Link, process data width OUT	can be parameterised 8 - 32 byte
IO-Link, process data width IN	can be parameterised 8 - 32 byte
IO-Link, minimum cycle time	Dependent on minimum supported cycle time of the connected IO-Link® device