IO-Link master module
CPX-E-4IOL

Part number: 4080495

RD	0	1	RD
BU	2	3	BU

Data sheet

Feature	Value
Protocol	IO-Link®
Dimensions (W x L x H)	18.9 x 76.6 x 124.3 mm
Grid 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 to FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27
Protection against direct and indirect contact	PELV
LABS (PWIS) conformity	VDMA24364 zone III
CE mark (see declaration of conformity)	To EU EMC Directive 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
Approval	RCM trademark c UL us listed (OL)
Certificate issuing authority	UL E239998
Note on materials	RoHS-compliant
Material housing	PA
Diagnostics via LED	Errors per module Status per channel

Feature	Value
Diagnostics via bus	Device missing/failed Wire break Module error Short circuit Parameter errors Overflow/underflow Undervoltage General errors
Max. address volume, outputs	1 Byte
Number of outputs	8
Module parameters	Short circuit diagnostics for actuator supply Deactivate sensor supply Behaviour after short circuit/overload
Channel parameters	Deactivate actuator supply Device error code Force channel x Channel mode Channel status Cycle time
Power supply, connection type	Terminal strip
power supply, connection system	Spring-loaded terminal
Power supply, number of pins/wires	4
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%
Power supply, conductor diameter	0.2 mm²...1.5 mm²
Power supply, note on conductor diameter	0.2 - 2.5 mm² for flexible conductors without wire ferrule
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 for outputs	According to IEC 61131-2, type 0.5
Switching logic for outputs	PNP (positive switching)
Reverse voltage protection, load	No
Reverse voltage protection, logic	No
Max. residual current outputs per module	4 A
Isolation channel - channel	no
Isolation channel - internal bus	no
Fuse protection (short circuit)	Internal electronic fuse per channel Internal electronic fuse per module
Electrical connection for IO-Link, connection type	4x terminal strip
Electrical connection for IO-Link, connection technology	Spring-loaded terminal
Electrical connection for IO-Link, number of pins/wires	6
Electrical connection for IO-Link, conductor cross section	0.2 mm²...1.5 mm²
Electrical connection for IO-Link, note on conductor cross section	0.2 - 2.5 mm² for flexible conductors without wire ferrule
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	SIO, COM1 (4.8 kBd), COM2 (38.4 kBd), COM3 (230.4 kBd) Configurable via software
IO-Link, Process data length OUT	Can be parameterised, 8-32 bytes
IO-Link, Process data length IN	Can be parameterised, 8-32 bytes
IO-Link, Min. cycle time	Dependent on minimum supported cycle time of the connected IO-Link® device