Counter module
CPX-E-1CI
Part number: 4827505

WH	0	1	WH
RD	2	3	RD
BU	4	5	BU

Data sheet

Feature	Value
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	88 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
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 instructions for EMC 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
Material of screws	Steel, galvanized
Diagnostics via LED	Encoder supply fault Faults per module Encoder error Encoder normal operation Encoder supply normal operation Status per channel

Feature	Value
Diagnostics via bus	Measuring system error Sensor supply short circuit/overload Parameter error Wire break monitoring Zero-pulse monitoring Misalignment monitoring
Max. address capacity inputs	12 byte
Max. address capacity outputs	2 byte
Module parameters	Debounce time for digital inputs Pulses/zero pulse Speed measurement integration time Internal revision ID Load value Latch event Latch signal Latching response Upper counting limit Signal type/encoder type Signal analysis Line break monitoring Zero-pulse monitoring Misalignment monitoring Lower count limit
Channel parameters	Signal extension
Power supply, function	Encoder supply
Power supply, type of connection	Terminal strip
Power supply, connection technology	Spring-loaded terminal
Power supply, number of pins/wires	6
Nominal operating voltage DC for electronics/sensors	24 V
Permissible voltage fluctuations for electronics/sensors	± 25 %
Power supply, conductor diameter	0.2 mm²...1.5 mm²
Power supply, information on conductor diameter	0.2 - 2.5 mm² for flexible conductors without cable end sleeves
Intrinsic current consumption at nominal operating voltage for electronics/sensors	Typically 15 mA
Power failure buffering	10 ms
Reverse polarity protection	24 V sensor supply against 0 V sensor supply
Electrical connection input, function	Digital input
Electrical connection input, connection type	2x terminal strip
Electrical input connection, connection technology	Spring-loaded terminal
Electrical connection, input, number of pins/wires	6
Electrical connection for input, conductor cross section	0.2 mm²...1.5 mm²
Electrical connection for input, information on conductor cross section	0.2 - 2.5 mm² for flexible conductors without cable end sleeves
Electrical connection input 2, function	Counter input
Electrical connection input 2, connection type	Terminal strip
Electrical input 2 connection, connection technology	Spring-loaded terminal
Electrical connection, input 2, number of pins/wires	6
Electrical connection for input 2, conductor cross section	0.2 mm²...1.5 mm²
Electrical connection for input 2, information on conductor cross section	0.2 - 2.5 mm² for flexible conductors without cable end sleeves
No. of inputs	4
Input characteristics	As per IEC 61131-2, type 3
Switching level	Signal 0: <= 5 V Signal 1: >= 11 V
Input switching logic	PNP (positive switching) 2-wire sensors as per IEC 61131-2 3-wire sensors as per IEC 61131-2
Input debounce time	0.02 ms 0.1 ms 3 ms
Behavior after end of overload of the sensor supply	Automatic return
Max. residual current of inputs per module	1.8 A

Feature	Value
Electrical isolation between channels	no
Electrical isolation between channel and internal bus	no
Fuse protection (short circuit)	Internal electronic fuse per module