

# Counter module CPX-E-1CI

Part number: 4827505

FESTO



 [General operating condition](#)

## Data sheet

Feature	Value
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	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 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
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 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
Material screws	Galvanised steel
Diagnostics via LED	Encoder supply error Errors per module Encoder error Encoder normal operation Encoder supply normal operation Status per channel
Diagnostics via bus	Measuring system error Short circuit/overload in sensor supply Parameter errors Monitoring of wire break Monitoring of zero pulse Tracking error monitoring
Max. address volume, inputs	12 Byte

Feature	Value
Max. address volume, outputs	2 Byte
Module parameters	Pulse/zero pulse Integration time for speed measurement Internal revision ID Load value Latching event Latching signal Latching response Upper count limit Signal type/encoder type Signal evaluation Monitoring of cable break Monitoring of zero pulse Tracking error monitoring Lower count limit
Channel parameters	Signal extension
Power supply, function	Encoder supply
Power supply, connection type	Terminal strip
power supply, connection system	Spring-loaded terminal
Power supply, connection pattern	00995844
Power supply, number of pins/wires	6
Nominal DC operating voltage, 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, note on conductor diameter	0.2 - 2.5 mm <sup>2</sup> for flexible conductors without wire ferrule
Intrinsic current consumption at nominal operating voltage for electronics/sensors	Typically 15 mA
Power failure bridging	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 connection input, connector system	Spring-loaded terminal
Electrical connection input, number of connections/cores	6
Electrical connection input, connection pattern	00995843
Electrical connection for input, conductor cross section	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Electrical connection for input, note on conductor cross section	0.2 - 2.5 mm <sup>2</sup> for flexible conductors without wire ferrule
Electrical connection for input 2, function	Counting input
Electrical connection for input 2, connection type	Terminal strip
Electrical connection for input 2, connection technology	Spring-loaded terminal
Electrical connection for input 2, number of pins/wires	6
Electrical connection for input 2, connection pattern	00995848
Electrical connection for input 2, conductor cross section	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Electrical connection for input 2, note on conductor cross section	0.2 - 2.5 mm <sup>2</sup> for flexible conductors without wire ferrule
Number of inputs	4
Characteristic for inputs	To IEC 61131-2, type 3
Switching level	Signal 0: ≤ 5 V Signal 1: ≥ 11 V
Switching logic for inputs	PNP (positive switching) 2-wire sensors to IEC 61131-2 3-wire sensors to IEC 61131-2
Input debounce time	3 ms
Behaviour after end of overload of the sensor supply	Automatic return
Max. residual current of inputs per module	1.8 A
Isolation channel - channel	no
Isolation channel - internal bus	no
Fuse protection (short circuit)	Internal electronic fuse per module