

Digital input module

CPX-E-16DI

Part number: 4080492

FESTO



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

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	102 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
Max. cable length	30 m inputs
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
Diagnostics via bus	Short circuit/overload in sensor supply
Max. address volume, inputs	2 Byte

Feature	Value
Module parameters	Short circuit diagnostics for sensor supply Input debounce time Signal extension time Behaviour after short circuit/overload
Channel parameters	Signal extension
Nominal DC operating voltage, electronics/sensors	24 V
Permissible voltage fluctuations for electronics/sensors	± 25%
Intrinsic current consumption at nominal operating voltage for electronics/sensors	Typically 15 mA
Reverse polarity protection	24 V sensor supply against 0 V sensor supply
Electrical connection input, function	Digital input
Electrical connection input, connection type	8x terminal strip
Electrical connection input, connector system	Spring-loaded terminal
Electrical connection input, number of connections/cores	6
Electrical connection for input, conductor cross section	0.2 mm²...1.5 mm²
Electrical connection for input, note on conductor cross section	0.2 - 2.5 mm² for flexible conductors without wire ferrule
Number of inputs	16
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	0.1 ms 3 ms 10 ms 20 ms
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