

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 mm x 76.6 mm x 124.3 mm
Width 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 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
Max. cable length	30 m inputs
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
Diagnostics via LED	Faults per module Status per channel
Diagnostics via bus	Sensor supply short circuit/overload
Max. address capacity inputs	2 byte

Feature	Value
Module parameters	Sensor supply short circuit diagnostics Input debounce time Signal extension time Response to short circuit/overload
Channel parameters	Signal extension
Nominal operating voltage DC for 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 input connection, connection technology	Spring-loaded terminal
Electrical connection, input, number of pins/wires	6
Electrical connection for input, conductor cross section	0.2 mm ² ...1.5 mm ²
Electrical connection for input, information on conductor cross section	0.2 - 2.5 mm ² for flexible conductors without cable end sleeves
No. of inputs	16
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	0.1 ms 3 ms 10 ms 20 ms
Max. residual current of inputs per module	1.8 A
Electrical isolation between channels	no
Electrical isolation between channel and internal bus	no
Fuse protection (short circuit)	Internal electronic fuse per module