digital input module
CPX-AP-I-4DI-M8-3P
Part number: 8086605
★ Core product range

FESTO
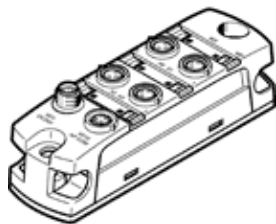
Data sheet

Feature	Value
Dimensions W x L x H	30 mm x 102,5 mm x 35 mm
Mounting type	with through hole
Product weight	81 g
Ambient temperature	-20 ... 50 °C
Storage temperature	-40 ... 70 °C
Relative air humidity	5 - 95 %
	non-condensing
Protection class	IP65
	IP67
Note on degree of protection	Unused connections sealed
Corrosion resistance classification CRC	1 - Low corrosion stress
Max. line length	30 m inputs
	50 m system communication
PWIS conformity	VDMA24364-B2-L
CE mark (see declaration of conformity)	to EU directive for EMC
UKCA marking (see declaration of conformity)	To UK instructions for EMC
KC mark	KC-EMV
Authorisation	RCM Mark
	c UL us - Listed (OL)
Certificate issuing department	UL E239998
Materials note	Conforms to RoHS
Material housing	PA
	PC
	Nickel-plated die-cast zinc
Material seals	NBR
Material o-ring	FPM
Diagnostics via LED	Diagnostics per module
	Status per channel
Diagnostics per internal communication	Short circuit/overload in sensor supply
	Electronics/sensors overvoltage
	Electronics/sensors undervoltage
Communication interface, function	System communication XF10 IN
Communication interface, connection type	Plug socket
Communication interface, connection technology	M8x1, D-coded to EN 61076-2-114
Communication interface, number of pins/wires	4
Communication interface, protocol	AP
Communication interface, screening	Yes
Power supply, function	Incoming electronics/sensors and load
Power supply, type of connection	Plug
Power supply, connection technology	M8x1, A-coded to EN 61076-2-104
Power supply, number of pins/wires	4
Note regarding operating voltage	SELV/PELV fixed power supplies required
	Note voltage drop
Nominal operating voltage DC for electronics/sensors	24 V
Permissible voltage fluctuations for electronics/sensors	± 25 %
Max. power supply	2 x 4 A (external fuse required)

Feature	Value
Intrinsic current consumption at nominal operating voltage for electronics/sensors	Typical 32 mA
Power failure buffering	10 ms
Polarity protected	Yes
Electrical connection, input, function	Digitaleingang
Electrical connection, input, connection type	4x socket
Electrical connection, input, connection technology	M8x1, A-coded to EN 61076-2-104
Electrical connection, input, number of pins/wires	3
No. of inputs	4
Input characteristics	to IEC 61131-2, type 3
Switching level	Signal 0: <= 5 V Signal 1: >= 11 V
Input circuit logic	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
Fuse protection of inputs (short circuit)	Internal electronic fuse protection per module
Max. residual current inputs per module	0.8 A
Electrical isolation of inputs between channels	No
Electrical isolation of inputs between channel - internal communication	Yes