

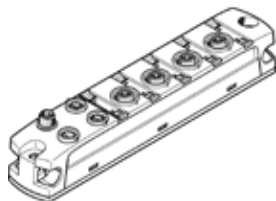
# digital input module

## CPX-AP-I-8DI-M12-5P

Part number: 8086602

★ Core product range

FESTO



## Data sheet

Feature	Value
Dimensions W x L x H	30 mm x 170 mm x 35 mm
Mounting type	On H-rail with accessories with through hole
Product weight	126 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
Note on max. cable length	Power supply according to nominal voltage
PWIS conformity	VDMA24364-B2-L
CE symbol (see declaration of conformity)	according to EU-EMV guideline
UKCA marking (see declaration of conformity)	To UK instructions for EMC
KC mark	KC-EMV
Authorization	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 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 / XF20 OUT
Communication interface, connection type	2x socket
Communication interface, connection technology	M8x1, D-coded in accordance with 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
Power transmission, function	Outgoing electronics/sensors and load
Power transmission, connection type	Plug socket
Power transmission, connection technology	M8x1, A-coded to EN 61076-2-104
Power transmission, number of pins/wires	4

<b>Feature</b>	<b>Value</b>
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)
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	M12x1, A-coded in accordance with EN 61076-2-101
Electrical connection, input, number of pins/wires	5
No. of inputs	8
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	1.8 A
Electrical isolation of inputs between channels	No
Electrical isolation of inputs between channel - internal communication	Yes