

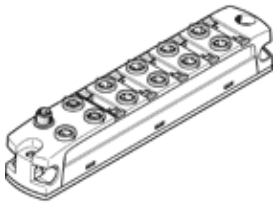
analogue input module

CPX-AP-I-4AI-U-I-RTD-M12

Part number: 8086606

★ 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	166 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 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 seals	NBR
Material o-ring	FPM
Diagnostics via LED	Diagnostics per module Status per channel
Diagnostics per internal communication	Wire break Module error Short circuit/overload in sensor supply Parameter error parameterisation error Overload at analogue inputs Upper limit value not observed Overflow/underflow Lower limit value not observed
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

Feature	Value
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
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	Typically 38 mA
Power failure buffering	10 ms
Polarity protected	Yes
Electrical connection, input, function	Analogue input
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, note on connection technology	To achieve the technical specifications, the opposite side must be screened and designed with gold contact surfaces.
Electrical connection, input, number of pins/wires	5
No. of inputs	4
Fuse protection of inputs (short circuit)	Internal electronic fuse protection per module
Max. residual current inputs per module	1 A
Electrical isolation of inputs between channels	No
Electrical isolation of inputs between channel - internal communication	Yes
Measured variable	Voltage Current Temperature Resistor
Data format	15 bits + prefix Linear scaling
Signal range	-10 - 10 V -5 - 5 V 0 - 10 V 0 - 20 mA 0 - 500 ohm 1 - 5 V 4 - 20 mA
Repetition accuracy	±0.025% at 25 °C
Basic error limit at 25 °C	±0.1% for voltage ±0.1% for current ±0.2% for resistor ±0.4% for temperature
Operating error limit related to the ambient temperature range	±0.15% for voltage ±0.15% for current ±0.35% for resistor ±0.9% for temperature