

Analogue input module CPX-AP-I-4AI-U-I-RTD-M12

FESTO

Part number: 8086606



Data sheet

Feature	Value
Dimensions W x L x H	30 mm x 170 mm x 35 mm
KC characters	KC EMC
Diagnose per internal communication	Wire break Module error Short circuit/overload in sensor supply Parameter error Parameterization error Overload at analog inputs Upper limit value violated Underflow/overflow Lower limit value not complied with
Max. power supply	2 x 4 A (external fuse required)
Note on degree of protection	Unused connections sealed
Fuse protection inputs (short circuit)	Internal electronic fuse per module
Communication interface, connection technology	M8x1, D-coded as per EN 61076-2-114
Permissible voltage fluctuations for electronics/sensors	± 25 %
Power supply, connection technology	M8x1, A-coded as per EN 61076-2-104
Power supply, function	Incoming electronics/sensors and load
Voltage forwarding, connection technology	M8x1, A-coded as per EN 61076-2-104
Relative air humidity	5 - 95 % Non-condensing
Communication interface, connection type	2x socket
Intrinsic current consumption at nominal operating voltage for electronics/sensors	Typically 38 mA
Power supply, type of connection	Plug
Voltage forwarding, connection type	Socket
Communication interface, function	System communication XF10 IN / XF20 OUT
Max. cable length	30 m inputs 50 m system communication
Electrical connection input, function	Analog input
Communication interface, protocol	AP-COM
Digital inputs, electrical isolation of input - internal communication	yes
Diagnostics via LED	Diagnostics per module Status per channel
Electrical isolation of inputs between channels	no
Electrical connection input, connection type	4x socket
Communication interface, shielding	yes
Voltage forwarding, function	Outgoing electronics/sensors and load
Electrical input connection, connection technology	M12x1 A-coded as per EN 61076-2-101

Feature	Value
Electrical connection, input, number of pins/wires	5
Voltage forwarding, number of pins/wires	4
Nominal operating voltage DC for electronics/sensors	24 V
Power supply, number of pins/wires	4
No. of inputs	4
Communication interface, number of pins/wires	4
Max. residual current of inputs per module	1 A
Power failure buffering	10 ms
Note regarding operating voltage	SELV/PELV fixed power supplies required Note voltage drop
Electrical connection, input, note on connection technology	To achieve the technical specifications, the opposite side is shielded and must be designed with contact surfaces made from gold.
Basic error limit at 25°C	±0.1 % for voltage ±0.1 % for electrical current ±0.2 % for resistor ±0.4 % for temperature
Measured variable	Voltage Current Temperature Resistor
Data format	15 bit + sign Linear scaling
Repetition accuracy	±0.025 % at 25 °C
Signal range	-10 - 10 V -5 - 5 V 0 - 10 V 0 - 20 mA 0 - 500 Ω 1 - 5 V 4 - 20 mA
Operating error limit related to the ambient temperature range	±0.15 % for voltage ±0.15 % for electrical current ±0.35 % for resistor ±0.9 % for temperature
Type code	CPX-AP-I
Reverse polarity protection	yes
CE marking (see declaration of conformity)	As per EU EMC directive
Corrosion resistance class (CRC)	1 - Low corrosion stress
Storage temperature	-40 °C ... 70 °C
Degree of protection	IP65 IP67
Ambient temperature	-20 °C ... 50 °C
Certification	RCM compliance mark
Product weight	166 g
Type of mounting	With through-hole
Note on materials	RoHS-compliant
Housing material	PA PC Die-cast zinc, nickel-plated