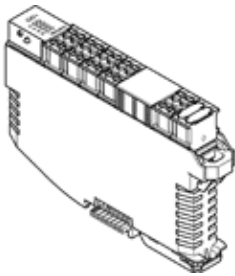


analogue input module

CPX-E-4AI-U-I

Part number: 4080493

FESTO



Data sheet

Feature	Value
Dimensions W x L x H	18,9 mm x 76,6 mm x 124,3 mm
Grid dimension	18.9 mm
Mounting type	with top-hat rail
Product weight	96 g
Assembly position	Vertical Horizontal
Ambient temperature	-5 ... 50 °C
Note on ambient temperature	-5 - 60°C for vertical installation
Storage temperature	-20 ... 70 °C
Relative air humidity	95 % non-condensing
Protection class	IP20
Corrosion resistance classification 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 in accordance with FN 942017-5 and EN 60068-2-27
Max. line length	30 m inputs Shielded
PWIS conformity	VDMA24364 zone III
CE mark (see declaration of conformity)	to EU directive for EMC in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
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
Material screws	Galvanised steel
Diagnostics via LED	Error per channel Error per module
Diagnostics via bus	Wire break 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
Maximum address volume for inputs	8 Byte
Module parameters	Parameterisation error diagnostics Short circuit diagnostics for sensor supply Behaviour after short circuit/overload Data format analogue inputs

Feature	Value
	Deactivate sensor supply Diagnostics of overload at analogue inputs Behaviour after overload at analogue inputs Hysteresis limit monitoring
Channel parameters	Signal range per channel Diagnostics for lower limit Diagnostics for upper limit Wire break diagnostics Underflow/overflow diagnostics Parameter error diagnostics Smoothing factor Lower/upper limits
Internal cycle time	$\leq 500 \mu\text{s}$
Nominal operating voltage DC for electronics/sensors	24 V
Permissible voltage fluctuations for electronics/sensors	$\pm 25 \%$
Intrinsic current consumption at nominal operating voltage for electronics/sensors	typ. 70 mA
Power failure buffering	10 ms
Polarity protected	24 V sensor supply against 0 V sensor supply
Electrical connection, input, function	Analogue input
Electrical connection, input, connection type	4x terminal strips
Electrical connection, input, connection technology	Cage clamp terminal
Electrical connection, input, number of pins/wires	4
Electrical connection for input, conductor cross section	0.2 ... 1.5 mm ²
Electrical connection for input, note on conductor cross section	0.2 - 2.5 mm ² for flexible conductors without wire end sleeves
Electrical connection for input 2, function	Functional earth
Electrical connection for input 2, connection type	Terminal strip
Electrical connection for input 2, connection technology	Cage clamp terminal
Electrical connection for input 2, number of pins/wires	4
Electrical connection for input 2, connection pattern	00995842
Electrical connection for input 2, conductor cross section	0.2 ... 1.5 mm ²
Electrical connection for input 2, note on conductor cross section	0.2 - 2.5 mm ² for flexible conductors without wire end sleeves
No. of inputs	4
Max. residual current inputs per module	1.4 A
Behaviour after end of overload of the outputs	No automatic return (default) Parameterisable (module by module)
Measured variable	Voltage Current
Data format	15 bits + prefix Linear scaling
Signal range	-10 - 10 V -20 - 20 mA -5 - 5 V 0 - 10 V 0 - 20 mA 1 - 5 V 4 - 20 mA
Repetition accuracy	$\pm 0.1\%$ at 25 °C
Basic error limit at 25°C	$\pm 0,2 \%$
Operating error limit related to the ambient temperature range	$\pm 0,3 \%$
Electrical isolation channel – channel	No
Electrical isolation channel – internal bus	Yes
Protection (short circuit)	Internal electronic fuse protection per module