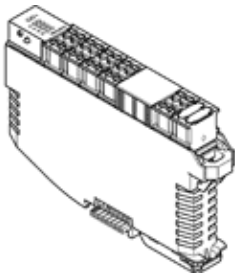


# analogue input module

## 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
No. of inputs	4
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
Measured variable	Voltage Current
Module parameters	Parameterisation error diagnostics Short circuit diagnostics for sensor supply Behaviour after short circuit/overload Data format analogue inputs 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
Repetition accuracy	±0.1% at 25 °C
Protection (short circuit)	Internal electronic fuse protection per module
Intrinsic current consumption at nominal operating voltage for electronics/sensors	typ. 70 mA
Operating error limit related to the ambient temperature range	±0,3 %
Basic error limit at 25°C	±0,2 %
Max. residual current inputs per module	1.4 A
Nominal operating voltage DC for electronics/sensors	24 V
Power failure buffering	10 ms
Electrical isolation channel – internal bus	Yes
Electrical isolation channel – channel	No
Permissible voltage fluctuations for electronics/sensors	± 25 %
Authorisation	RCM Mark
CE mark (see declaration of conformity)	to EU directive for EMC

Feature	Value
Vibration resistance	Transport application test at severity level 1 in accordance with 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
Corrosion resistance classification CRC	0 - No corrosion stress
Storage temperature	-20 ... 70 °C
Relative air humidity	95 % non-condensing
Protection class	IP20
Ambient temperature	-5 ... 50 °C
Note on ambient temperature	-5 - 60°C for vertical installation
Product weight	96 g
Maximum address volume for inputs	8 Byte
Signal range	-10 - 10 V -20 - 20 mA -5 - 5 V 0 - 10 V 0 - 20 mA 1 - 5 V 4 - 20 mA
Data format	15 bits + prefix Linear scaling
Max. line length	30 m Shielded
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 <sup>2</sup>
Electrical connection for input, note on conductor cross section	0.2 - 2.5 mm <sup>2</sup> 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 <sup>2</sup>
Electrical connection for input 2, note on conductor cross section	0.2 - 2.5 mm <sup>2</sup> for flexible conductors without wire end sleeves
Mounting type	with top-hat rail
Materials note	Contains PWIS substances Conforms to RoHS
Material housing	PA