

# Analogue input module CPX-E-4AI-U-I

Part number: 4080493



## Data sheet

Feature	Value
Dimensions W x L x H	18.9 mm x 76.6 mm x 124.3 mm
Vibration resistance	Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6
Electrical connection input, function	Analog input
Note on ambient temperature	-5 - 60 °C for vertical installation
Intrinsic current consumption at nominal operating voltage for electronics/sensors	Typically 70 mA
Electrical connection for input, information on conductor cross section	0.2 - 2.5 mm <sup>2</sup> for flexible conductors without cable end sleeves
Diagnostics via bus	Wire break Sensor supply short circuit/overload Parameter error Parameterization error Overload at analog inputs Upper limit value violated Underflow/overflow Lower limit value not complied with
Permissible voltage fluctuations for electronics/sensors	± 25 %
Electrical input connection, connection technology	Spring-loaded terminal
Shock resistance	Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27
Signal range	-10 - 10 V -20 - 20 mA -5 - 5 V 0 - 10 V 0 - 20 mA 1 - 5 V 4 - 20 mA
Module parameters	Parameterization error diagnostics Sensor supply short circuit diagnostics Response to short circuit/overload Analog input data format Deactivate sensor supply Analog input overload diagnostics Response to analog input overload Limit monitoring hysteresis
Electrical connection input, connection type	4x terminal strip
Diagnostics via LED	Faults per channel Faults per module

Feature	Value
Channel parameters	Signal range per channel Lower diagnostic limit Upper limit diagnostics Wire break diagnostics Underflow/overflow diagnostics Parameter error diagnostics Smoothing factor Lower/upper limit
KC characters	KC EMC
Electrical connection input 2, function	Functional ground
Electrical connection input 2, connection type	Terminal strip
Electrical connection for input 2, information on conductor cross section	0.2 - 2.5 mm <sup>2</sup> for flexible conductors without cable end sleeves
Electrical input 2 connection, connection technology	Spring-loaded terminal
Electrical connection for input 2, connection pattern	00995842
Nominal operating voltage DC for electronics/sensors	24 V
Electrical connection, input, number of pins/wires	4
Electrical connection, input 2, number of pins/wires	4
Electrical connection for input, conductor cross section	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Electrical connection for input 2, conductor cross section	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Width dimension	18.9 mm
Type code	CPX-E
No. of inputs	4
Measured variable	Voltage Current
Repetition accuracy	±0.1 % at 25 °C
Fuse protection (short circuit)	Internal electronic fuse per module
Operating error limit related to the ambient temperature range	±0.3 %
Basic error limit at 25°C	±0.2 %
Max. residual current of inputs per module	1.4 A
Power failure buffering	10 ms
Electrical isolation between channel and internal bus	yes
Electrical isolation between channels	no
Certificate issuing authority	UL E239998
CE marking (see declaration of conformity)	As per EU EMC directive
Corrosion resistance class (CRC)	0 - No corrosion stress
Storage temperature	-20 °C ... 70 °C
Relative air humidity	95 % Non-condensing
Degree of protection	IP20
Ambient temperature	-5 °C ... 50 °C
Certification	RCM compliance mark c UL us - Listed (OL)
Product weight	96 g
Max. address capacity inputs	8 byte
Data format	15 bit + sign Linear scaling
Max. cable length	30 m Shielded
Type of mounting	With H-rail
Note on materials	Contains paint-wetting impairment substances RoHS-compliant
Housing material	PA