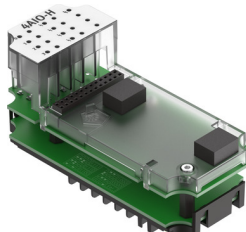


Input module CPX-4AE-4AA-H

Part number: 8059847

FESTO



 [General operating condition](#)

Data sheet

Feature	Value
Protocol	HART
Dimensions W x L x H	(incl. interlinking block and connection system) 50 mm x 107 mm x 70 mm
Width dimension	50 mm
Type of mounting	On interlinking block
Product weight	77.4 g
Ambient temperature	-5 °C ... 50 °C
Storage temperature	-20 °C ... 70 °C
Relative air humidity	95 % Non-condensing
Degree of protection	Depends on manifold block
Corrosion resistance class (CRC)	1 - Low corrosion stress (when installed)
Vibration resistance	Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27
Max. cable length	500 m
LABS (PWIS) conformity	VDMA24364-B2-L
CE marking (see declaration of conformity)	As per EU EMC directive
Note on materials	RoHS-compliant
Housing material	PA-reinforced PC
LED indicators	1 group diagnostics 4 channel diagnostics 4 channel status
Diagnostics	Wire break per channel Limit value violation per channel Short circuit/overload per channel Parameterization error Overflow/underflow Limit value violation as per NE43 per channel
Control elements	DIL switch

Feature	Value
Parameterization	Data format Fail-safe modes per channel Forcing per channel Limit value monitoring per channel Idle mode per channel Measured value smoothing Signal range per channel Overflow/underflow monitoring Monitoring according to NE43 inputs Wire break monitoring per channel Number of HART repetitions Wire break per channel Limit value violation as per NE43 per channel Limit value violation per channel HART variables Hysteresis for critical limits Short circuit/overload per channel Parameterization error Overflow/underflow Response to short circuit/overload
Max. load	750 Ohm
DC operating voltage range	18 V ... 30 V
Nominal operating voltage DC	24 V
Intrinsic current consumption at nominal operating voltage	Typ. 170 mA
Power failure buffering	10 ms
Reverse polarity protection	for all electrical connections
Min. available sensor voltage	20.7 V at 20 mA
Max. input resistance	300 Ohm
Number of selectable analog inputs/outputs	4
Data format	15 bit + sign Scalable to 15 bits
Signal range	0 - 20 mA 4 - 20 mA 4–20 mA with HART
Repetition accuracy	0.05 % at 25 °C
Basic error limit at 25°C	±0.1 %
Operating error limit related to the ambient temperature range	±0.3 %
Sensor type	0 - 20 mA 4 - 20 mA 4–20 mA with HART
Max. open circuit voltage	28.8 V
Electrical isolation between channels	no
Electrical isolation between channel and internal bus	yes
Max. short circuit current	22 mA
Fuse protection (short circuit)	Internal electronic fuse per channel