

# Analogue output module

## CPX-E-4AO-U-I

Part number: 4080494

FESTO



GN	0	1	GN
GN	2	3	GN

### Data sheet

Feature	Value
Dimensions W x L x H	18.9 mm x 76.6 mm x 124.3 mm
Width dimension	18.9 mm
Type of mounting	With H-rail
Product weight	96 g
Mounting position	Vertical Horizontal
Ambient temperature	-5 °C...50 °C
Note on ambient temperature	-5 - 60 °C for vertical installation
Storage temperature	-20 °C...70 °C
Relative air humidity	95 % Non-condensing
Degree of protection	IP20
Corrosion resistance class (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 as per FN 942017-5 and EN 60068-2-27
Protection against direct and indirect contact	PELV
Max. cable length	30 m outputs Shielded
LABS (PWIS) conformity	VDMA24364 zone III
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
KC characters	KC EMC
Certification	RCM compliance mark c UL us - Listed (OL)
Note on materials	RoHS-compliant
Housing material	PA
Material of screws	Steel, galvanized
Diagnostics via LED	Faults per channel Faults per module

Feature	Value
Diagnostics via bus	Actuator supply short circuit/overload Analog output short circuit/overload Parameterization error Nominal range was exceeded Nominal range not reached Load supply undervoltage General error
Max. address capacity outputs	8 byte
No. of outputs	4
Module parameters	Deactivate actuator supply Analog output data format Actuator supply short circuit diagnostics Parameterization error diagnostics Load supply undervoltage diagnostics Response to actuator supply short circuit/overload Response to analog output short circuit/overload
Channel parameters	Forcing channel x Enable wire break/idling diagnostics Enable parameterization error diagnostics Enable overload/short circuit diagnostics Signal range per channel
Power supply, type of connection	Terminal strip
Power supply, connection technology	Spring-loaded terminal
Power supply, number of pins/wires	4
Nominal operating voltage DC load	24 V
Permissible voltage fluctuations load	± 25 %
Nominal operating voltage DC for electronics/sensors	24 V
Permissible voltage fluctuations for electronics/sensors	± 25 %
Power supply, conductor diameter	0.2 mm <sup>2</sup> ...1.5 mm <sup>2</sup>
Power supply, information on conductor diameter	0.2 - 2.5 mm <sup>2</sup> for flexible conductors without cable end sleeves
Intrinsic current consumption at nominal operating voltage for electronics/sensors	Typically 60 mA
Intrinsic current consumption at nominal operating voltage load	Typically 15 mA
Power failure buffering	10 ms
Reverse polarity protection	24 V actuator supply against 0 V sensor supply 24 V load against 0 V load 24 V sensor supply against 0 V sensor supply
Electrical connection output, function	Analog output
Electrical connection output, connection type	4x terminal strip
Electrical connection output, connection technology	Spring-loaded terminal
Electrical output connection, number of pins/wires	4
Electrical connection for output, conductor cross section	0.2 mm <sup>2</sup> ...1.5 mm <sup>2</sup>
Electrical connection for output, information on conductor cross section	0.2 - 2.5 mm <sup>2</sup> for flexible conductors without cable end sleeves
Electrical connection output 2, function	Functional ground
Electrical connection output 2, connection type	Terminal strip
Electrical connection output 2, connection technology	Spring-loaded terminal
Electrical output connection 2, number of pins/wires	4
Electrical connection for output 2, conductor cross section	0.2 mm <sup>2</sup> ...1.5 mm <sup>2</sup>
Electrical connection for output 2, Information on conductor cross section	0.2 - 2.5 mm <sup>2</sup> for flexible conductors without cable end sleeves
Behavior after end of overload of the outputs	No automatic return (default) Parameterizable (module by module)
Max. residual current of outputs per module	2 A
Measured variable	Voltage
Data format	15 bit + sign Linear scaling

Feature	Value
Signal range	-10 - 10 V -5 - 5 V 0 - 10 V -20 - 20 mA 0 - 20 mA 4 - 20 mA
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 %
Electrical isolation between channels	no
Electrical isolation between channel and internal bus	yes
Fuse protection (short circuit)	Internal electronic fuse per module