

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 x 76.6 x 124.3 mm
Grid 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 to FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 1 to 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 mark (see declaration of conformity)	To EU EMC Directive 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
Approval	RCM trademark c UL us listed (OL)
Note on materials	RoHS-compliant
Material housing	PA
Material screws	Galvanised steel
Diagnostics via LED	Errors per channel Errors per module

Feature	Value
Diagnostics via bus	Short circuit/overload in actuator supply Short circuit/overload at analogue output Parameterisation error Nominal range exceeded Nominal range not reached Undervoltage in load supply General errors
Max. address volume, outputs	8 Byte
Number of outputs	4
Module parameters	Deactivate actuator supply Data format for analogue outputs Short circuit diagnostics for actuator supply Parameterisation error diagnostics Diagnostics for undervoltage in load supply Behaviour after short circuit/overload in actuator supply Behaviour after short circuit/overload at analogue output
Channel parameters	Force channel x Enable wire break/idling diagnostics Enable for parameterisation error diagnostics Enable overload/short circuit diagnostics Signal range per channel
Power supply, connection type	Terminal strip
power supply, connection system	Spring-loaded terminal
Power supply, number of pins/wires	4
Nominal operating voltage DC of load	24 V
Permissible voltage fluctuation of load	± 25 %
Nominal DC operating voltage, electronics/sensors	24 V
Permissible voltage fluctuations for electronics/sensors	± 25%
Power supply, conductor diameter	0.2 mm²...1.5 mm²
Power supply, note on conductor diameter	0.2 - 2.5 mm² for flexible conductors without wire ferrule
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 bridging	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	Analogue output
Electrical connection output, connection type	4x terminal strip
Electrical connection output, connector system	Spring-loaded terminal
Electrical connection output, number of connections/cores	4
Electrical connection for output, conductor cross section	0.2 mm²...1.5 mm²
Electrical connection for output, note on conductor cross section	0.2 - 2.5 mm² for flexible conductors without wire ferrule
Electrical connection for output 2, function	Functional earth
Electrical connection for output 2, connection type	Terminal strip
Electrical connection for output 2, connection technology	Spring-loaded terminal
Electrical connection output 2, number of pins/wires	4
Electrical connection output 2, conductor cross section	0.2 mm²...1.5 mm²
Electrical connection output 2, note on conductor cross section	0.2 - 2.5 mm² for flexible conductors without wire ferrule
Behaviour after end of overload of the outputs	No automatic return (default) Parameterisable (module by module)
Max. residual current outputs per module	2 A
Measured variable	Voltage
Data format	15 bits + prefix Linear scaling

Feature	Value
analog input	-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%
Isolation channel - channel	no
Isolation channel - internal bus	yes
Fuse protection (short circuit)	Internal electronic fuse per module