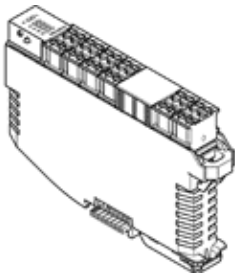


analogue output module

CPX-E-4AO-U-I

Part number: 4080494

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
Mounting type	with top-hat rail
Product weight	96 g
Assembly position	Vertical Horizontal
Ambient temperature	-5 ... 50 °C
Note on ambient temperature	-5 - 60°C for vertical installation
Storage temperature	-20 ... 70 °C
Relative air humidity	95 % non-condensing
Protection class	IP20
Corrosion resistance classification 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 in accordance with FN 942017-5 and EN 60068-2-27
Protection against direct and indirect contact	Protective extra-low voltage with safe disconnection (PELV)
Max. line length	30 m outputs Shielded
PWIS conformity	VDMA24364 zone III
CE mark (see declaration of conformity)	to EU directive for EMC 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
Authorisation	RCM Mark c UL us - Listed (OL)
Certificate issuing department	UL E239998
Materials note	Conforms to RoHS
Material housing	PA
Material screws	Galvanised steel
Diagnostics via LED	Error per channel Error per module
Diagnostics via bus	Short circuit/overload in actuator supply Short circuit/overload at analogue output parameterisation error Exceeding nominal range Value falls below nominal range Undervoltage in load supply General error
Maximum address volume for outputs	8 Byte
No. of outputs	4
Module parameters	Parameterisation error diagnostics Short circuit diagnostics for actuator supply Diagnostics for undervoltage in load supply

Feature	Value
	Behaviour after short circuit/overload in actuator supply Behaviour after short circuit/overload at analogue output Deactivate actuator supply Data format analogue outputs
Channel parameters	Signal range per channel Enable overload/short circuit diagnostics Enable wire break/idling diagnostics Release for parameterisation error diagnostics Force channel x
Power supply, type of connection	Terminal strip
Power supply, connection technology	Cage clamp terminal
Power supply, number of pins/wires	4
Nominal operating voltage, DC outputs	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 ... 1.5 mm ²
Power supply, note on conductor diameter	0.2 - 2.5 mm ² for flexible conductors without wire end sleeves
Intrinsic current consumption at nominal operating voltage for electronics/sensors	typ. 60 mA
Intrinsic current consumption at nominal operating voltage load	Typically 15 mA
Power failure buffering	10 ms
Polarity protected	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
Behaviour after end of overload of the sensor supply	Automatic return (default) Parameterisable (module by module)
Electrical connection, output, function	Analogue output
Electrical connection, output, connection type	4x terminal strips
Electrical connection, output, connection technology	Cage clamp terminal
Electrical connection, output, number of pins/wires	4
Electrical connection for output, conductor cross section	0.2 ... 1.5 mm ²
Electrical connection for output, note on conductor cross section	0.2 - 2.5 mm ² for flexible conductors without wire end sleeves
Electrical connection for output 2, function	Functional earth
Electrical connection for output 2, connection type	Terminal strip
Electrical connection for output 2, connection technology	Cage clamp terminal
Electrical connection for output 2, number of pins/wires	4
Electrical connection for output 2, connection pattern	00995842
Electrical connection for output 2, conductor cross section	0.2 ... 1.5 mm ²
Electrical connection for output 2, note on conductor cross section	0.2 - 2.5 mm ² for flexible conductors without wire end sleeves
Max. residual current outputs per module	2 A
Measured variable	Voltage Current
Data format	15 bits + prefix Linear scaling
Signal range	-10 - 10 V -20 - 20 mA -5 - 5 V 0 - 10 V 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 channel – channel	No
Electrical isolation channel – internal bus	Yes
Protection (short circuit)	Internal electronic fuse protection per module