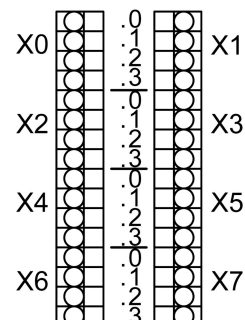


# Digital output module CPX-AP-A-8DO-PI

Part number: 8129107

**FESTO**



## Data sheet

Feature	Value
Dimensions W x L x H	(incl. interlinking block) 50.1 mm x 107.3 mm x 57.5 mm
Width dimension	50.1 mm
Type of mounting	Screwed tightly
Product weight	98 g
Mounting position	Any
Ambient temperature	-20 °C...50 °C
Note on ambient temperature	Observe ambient temperature derating according to IEC 61131-2:2017
Storage temperature	-20 °C...70 °C
Relative air humidity	5 - 95 % Non-condensing
Nominal altitude of use above sea level	<= 2000 m ASL (> 79.5 kPa)
Max. installation height	3500 m
Information on max. installation height	> 2000 m ASL (< 79.5 kPa) Observe ambient temperature derating according to IEC 61131-2:2017
Corrosion resistance class (CRC)	1 - Low corrosion stress
Vibration resistance	Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6
Note on vibration resistance	SG1 on H-rail SG2 on direct mounting Transport application test with severity level 1 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
Note on shock resistance	30 g/11 ms as per EN 60068-2-27 SG1 on H-rail SG2 on direct mounting Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27
Protection class	III
Contamination level	2
Overvoltage category	II

Feature	Value
Max. cable length	30 m outputs
LABS (PWIS) conformity	VDMA24364-B2-L
Material fire test	UL94 V-0 (housing)
Note on materials	RoHS-compliant Halogen-free Free of phosphoric acid ester
Cover material	PBT-reinforced
Material of screws	Steel, nickel-plated
O-ring material	FPM
Diagnostics via LED	Diagnostics per channel Diagnostics per module Load power supply Status per channel
Diagnose per internal communication	Load switch-off Communication error Short-circuit/overload in output signal Electronics/sensors overvoltage Load overvoltage Electronics/sensors undervoltage Load undervoltage
Max. address capacity outputs	1 byte
No. of outputs	8
Module parameters	Configuration of voltage monitoring, load supply PL Response to analog output short circuit/overload
Communication interface, protocol	AP
Note regarding operating voltage	SELV/PELV fixed power supplies required Note voltage drop
Note on nominal operating voltage DC	Protected Extra-Low-Voltage as per IEC 60204-1
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 %
Intrinsic current consumption at nominal operating voltage for electronics/sensors	Typically 40 mA
Intrinsic current consumption at nominal operating voltage load	Typically 5 mA
Power failure buffering	10 ms
Potential separation between the supply voltages electronics/sensor technology and load/valves	yes
Reverse polarity protection	yes
Electrical connection output, function	Digital output
Electrical connection output, connection type	8x 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	0.25 mm <sup>2</sup> ...1.5 mm <sup>2</sup>
Electrical connection for output, information on conductor cross section	0.13 - 1.5 mm <sup>2</sup> for flexible conductors without wire end sleeves
Electrical connection for output, conductor cross section AWG	AWG24 - AWG16
Characteristic curve outputs	As per IEC 61131-2, type 0.5
Switching logic at outputs	PNP (positive switching)
Fuse protection outputs (short circuit)	Internal electronic fuse per channel
Behavior after end of overload of the outputs	No automatic return
Output delay with resistive load	Signal change 0->1: < 200 µs Signal change 1->0: < 200 µs
Max. residual current of outputs per module	4 A
Electrical isolation of outputs between channels	no
Electrical isolation of outputs between channel - internal communication	yes
Max. power supply per channel	0.5 A