Analogue input/output
CPX-AP-I-4AI4AO-U-I-M12

Part number: 8179442



Data sheet

Feature	Value
Dimensions (W x L x H)	30 mm x 170 mm x 35 mm
Type of mounting	On DIN rail via accessories With through-hole
Product weight	166 g
Ambient temperature	-20 °C...60 °C
Storage temperature	-40 °C...70 °C
Relative air humidity	5 - 95% Non-condensing
Degree of protection	IP65 IP67
Note on degree of protection	Unused connections sealed
Corrosion resistance class CRC	1 - Low 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
Pollution degree	2
Max. cable length	30 m outputs 30 m inputs 50 m system communication
Note on max. cable length	Power supply according to nominal voltage
LABS (PWIS) conformity	VDMA24364-B2-L
Cleanroom suitability, measured according to ISO 14644-14	Element installed statically, no meaningful evaluation possible according to ISO 14644-1
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
Note on materials	RoHS compliant
Material housing	PA Makrolon® Nickel-plated die-cast zinc
Material o-ring	Fluoro rubber
Diagnostics via LED	(Inputs-Outputs) Diagnostics per module

Feature	Value
	(Inputs-Outputs) Status per channel
Diagnostics per internal communication	Wire breakage Module error Short circuit/overload in sensor supply Parameter error Parameterisation error Overload analogue inputs Upper limit value violated Underflow/overflow Lower limit value not observed
Communication interface, function	System communication XF10 IN / XF20 OUT
Communication interface, connection type	2x socket
Communication interface, connection technology	M8x1, D-coded according to EN 61076-2-114
Communication interface, number of pins/cores	4
Communication interface, protocol	AP
Communication interface, screened	Yes
Power supply, function	Incoming electronics/sensors and load
Power supply, connection type	Plug
power supply, connection system	M8x1, A-coded to EN 61076-2-104
Power supply, number of pins/wires	4
Power transmission, function	Outgoing electronics/sensors and load
Power transmission, connection type	Socket
Power transmission, connection technology	M8x1, A-coded to EN 61076-2-104
Power transmission, number of pins/wires	4
Note regarding operating voltage	SELV/PELV fixed power supplies required Note the voltage drop
Nominal DC operating voltage, electronics/sensors	24 V
Permissible voltage fluctuations for electronics/sensors	±25%
Max. power supply	2 x 4 A (external fuse required)