

Automation system CPX-AP-A

Part number: 8079933

FESTO



Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Electrical connection	Ethernet
Protocol	AP
Dimensions W x L x H	Abhängig von Konfiguration
Grid dimension	50.1 mm
Mounting type	Direct mounting via through-holes On H-rail with accessories On mounting frame Tightened Via through-hole for M5 screw Via through-hole for M6 screw With through-hole for M5 screw with accessories With through-hole for M6 screw with accessories
Max. no. of modules	15
Product weight	450 ... 5,200 g
Assembly position	Any, on H-rail: horizontal
Ambient temperature	-20 ... 50 °C
Note on ambient temperature	Note ambient temperature derating according to IEC 61131-2:2017
Storage temperature	-20 ... 70 °C
Relative air humidity	5 - 95 % non-condensing
Nominal altitude of use	≤ 2000 m ASL (≥ 79,5 kPa)
Max. installation height	3,500 m
Note on max. installation height	> 2000 m ASL (< 79,5 kPa) Note ambient temperature derating according to IEC 61131-2:2017
Protection class	IP65 IP67
Note on degree of protection	Unused connections sealed
Corrosion resistance classification CRC	1 - Low corrosion stress
Vibration resistance	Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6
Note on vibration resistance	SG1 on H-rail SG2 on direct mounting Transport application test at severity level 1 in accordance with FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27
Note on shock resistance	30 g/11 ms to EN 60068-2-27 SG1 on H-rail SG2 on direct mounting Shock test with severity level 1 in accordance with FN 942017-5 and EN 60068-2-27
Safety class	III
Protection against direct and indirect contact	SELV/PELV fixed power supplies required
Degree of contamination	2

Feature	Value
Overvoltage category	II
PWIS conformity	VDMA24364-B2-L
CE symbol (see declaration of conformity)	according to EU-EMV guideline in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Authorization	RCM Mark c UL us - Listed (OL)
Certificate issuing department	UL E239998
Materials note	Conforms to RoHS Halogen-free Free of phosphoric acid ester
Diagnostics via LED	(Outputs) Power supply load Diagnostics per channel Diagnostics per module EtherCAT RUN Ethernet/IP communication PROFINET communication Power supply electronics/sensors Power supply load Status per channel Status per module System diagnostics Maintenance required (Outputs) Diagnostics per channel (Inputs-Outputs) Diagnostics per module (Inputs-Outputs) Status per channel
Diagnostics via bus	Communication error Load switch-off Load overvoltage Load undervoltage Electronics/sensors overvoltage Electronics/sensors undervoltage APDD invalid
Diagnostics per internal communication	Load switch-off IO-Link® event Short-circuit/overload output signal Short circuit/overload in sensor supply Communication error Electronics/sensors overvoltage Load overvoltage Electronics/sensors undervoltage Load undervoltage
Note regarding fieldbus interface	All information that is relevant to CPX-AP can be read out via the Ethernet interfaces/fieldbus connections and changed depending on the function. Auto MDI, the bus module performs a crossover check Firmware update via Ethernet interface/fieldbus connection I&M functionality according to PNO is supported.
Fieldbus interface	Ethernet
Fieldbus interface, protocol	ACD (Addr. Conflict Detection) DLR (Device Level Ring) EtherCAT EtherCAT CoE EtherCAT Distrib. Clocks (DC) EtherCAT EoE MRP, MRPD (ring redundancy) EtherCAT FoE EtherCAT Mod. Dev. Prof. (MDP) EtherNet/IP EtherNet/IP QoS

Feature	Value
	EtherNet/IP Quickconnect LLDP Modbus/TCP (Modbus/UDP) S2 system redundancy PROFINET FSU PROFINET I&M0 .. 3 PROFINET IRT PROFINET RT PROFINET Shared device SNMP
Fieldbus interface, type of connection	2x socket
Fieldbus interface, connection technology	M12x1, D-coded in accordance with EN 61076-2-101 RJ45 according to IEC 61076-3-117 (V14)
Fieldbus interface, number of pins/wires	4 ... 8 °C
Fieldbus interface, electrical isolation	Yes
Fieldbus interface, transmission rate	100 Mbit/s
Maximum address volume for inputs	1,024 Byte 4,096 Byte
Note on inlets	EP: 488 Byte Modbus: 4096 Byte
Maximum address volume for outputs	1,024 Byte 4,096 Byte
Note on outputs	EP: 496 Byte Modbus: 4096 Byte
Module parameters	Configuration of voltage monitoring load supply PL Behaviour after short circuit/overload at the output
Channel parameters	Activation diagnostics for IO-Link® device lost Input debounce time Port mode Target deviceID Target vendorID Target cycle time
Internal cycle time	< 1 ms
Configuration support	EDS file ESI file GSDML file IODD file
Power supply, function	Incoming electronics/sensors and load and functional earth
Power supply, type of connection	Plug
Power supply, connection technology	7/8" according to NFPA/T3.5.29 M12x1, L-coded to EN 61076-2-111 Push-pull according to IEC 61076-3-126 M18x1
Power supply, number of pins/wires	4 ... 5 °C
Note regarding operating voltage	SELV/PELV fixed power supplies required Note voltage drop
Note on nominal operating voltage DC	Prot.Ext.Low-Volt. IEC 60204-1
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 %
Max. power supply	8 ... 16 A
Typ. intrinsic current consumption at nominal operating voltage for electronic system/sensors	0.04 ... 10 A
Typ. intrinsic current consumption at nominal operating voltage, load	0.003 ... 10 A
Power failure buffering	10 ms
Potential separation between the supply voltages electronics/sensors and load/valves	Yes
Polarity protected	Yes