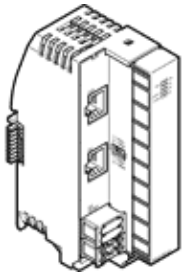
controller
CPX-E-CEC-C1

Part number: 5226780

FESTO



Data sheet

Feature	Value
Dimensions W x L x H	42,2 mm x 125,8 mm x 76,5 mm
Grid dimension	18.9 mm
Mounting type	with top-hat rail
Max. no. of modules	10
Product weight	145 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)
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	Force mode Network status engineering port 1 Network status EtherCAT® Power supply electronics/sensors Power supply load System error Run
Control elements	DIP switch for RUN/STOP
IP address selection	DHCP Via CoDeSys
Fieldbus interface	Ethernet
Fieldbus interface, protocol	EtherCAT EtherCAT CoE EtherCAT EoE EtherCAT FoE

Feature	Value
	EtherCAT Master
Fieldbus interface, type of connection	Plug socket
Fieldbus interface, connection technology	RJ45
Fieldbus interface, number of pins/wires	8
Fieldbus interface, electrical isolation	Yes
Fieldbus interface, transmission rate	100 Mbit/s
Ethernet interface, type of connection	Plug socket
Ethernet interface, protocol	EasyIP Modbus TCP OPC-UA TCP/IP
Ethernet interface, function	diagnosis
Ethernet interface, connection technology	RJ45
Ethernet interface, number of pins/wires	8
Ethernet interface, transmission rate	10 Mbit/s 100 Mbit/s
Maximum address volume for inputs	64 Byte
Maximum address volume for outputs	64 Byte
System parameters	Diagnostic memory Fail-safe reaction System start
Module parameters	Channel alarms bundling Undervoltage diagnostics Channel alarms undervoltage Process value representation of analogue modules
Configuration support	CODESYS V3
Additional functions	CODESYS V3
CPU data	128 MB RAM Dual Core 650 MHz
Power supply, function	Electronics and sensors
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 for electronics/sensors	24 V
Permissible voltage fluctuations for electronics/sensors	± 25 %
Power supply, conductor diameter	0.2 ... 1.5 mm2
Power supply, note on conductor diameter	0.2 - 2.5 mm² for flexible conductors without wire end sleeves
Max. power supply	8 A
Intrinsic current consumption at nominal operating voltage for electronics/sensors	typ. 65 mA
Power failure buffering	20 ms
Polarity protected	24 V sensor supply against 0 V sensor supply
Programming software	CODESYS provided by Festo
Program memory	12 MB user program
Processing time	Approx. 200 µs/1 k instruction
Functional modules	And others Read CPX-E module diagnostics CPX-E diagnostic status Copy CPX-E diagnostic trace
Real-time clock buffer time	3 Wochen
Flags	120 kB remanent data CoDeSys variable concept