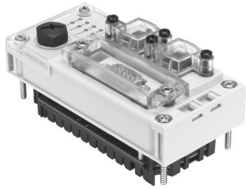


# Control block CPX-CEC-C1-V3

Part number: 3473128

FESTO



 General operating condition

## Data sheet

| Feature                                   | Value                                                                                                                                                                     |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protocol                                  | CODESYS level 2<br>EasyIP<br>Modbus® TCP<br>TCP/IP                                                                                                                        |
| Dimensions W x L x H                      | 50 mm x 107 mm x 55 mm                                                                                                                                                    |
| Product weight                            | 135 g                                                                                                                                                                     |
| Ambient temperature                       | -5 °C ... 50 °C                                                                                                                                                           |
| Storage temperature                       | -20 °C ... 70 °C                                                                                                                                                          |
| Relative air humidity                     | 95 %<br>Non-condensing                                                                                                                                                    |
| Degree of protection                      | IP65<br>IP67                                                                                                                                                              |
| Corrosion resistance class (CRC)          | 2 - Moderate corrosion stress                                                                                                                                             |
| LABS (PWIS) conformity                    | VDMA24364-B2-L                                                                                                                                                            |
| Note on materials                         | RoHS-compliant                                                                                                                                                            |
| Housing material                          | PC                                                                                                                                                                        |
| LED display (product-specific)            | ERR: PLC runtime error<br>M: modify/forcing active<br>PL: load supply<br>PS: electronics supply, sensor supply<br>RUN: PLC status<br>SF: system fault<br>STOP: PLC status |
| LED display (bus-specific)                | TP: link/traffic                                                                                                                                                          |
| Device-specific diagnostics               | Channel-oriented and module-oriented diagnostics<br>Undervoltage/short circuit of modules<br>Diagnostic memory                                                            |
| Control elements                          | DIL switch for CAN termination<br>Rotary switch for RUN/Stop                                                                                                              |
| IP address setting                        | DHCP<br>Via CODESYS<br>Via MMI                                                                                                                                            |
| Fieldbus interface, type                  | CAN bus                                                                                                                                                                   |
| Fieldbus interface, connection technology | Plug<br>Sub-D<br>9-pin                                                                                                                                                    |
| Fieldbus interface, galvanic isolation    | yes                                                                                                                                                                       |
| Fieldbus interface, transmission rate     | 125, 250, 500, 800, 1000 kbit/s<br>Adjustable via software                                                                                                                |
| Ethernet interface                        | RJ 45 (socket, 8-pin)                                                                                                                                                     |
| Ethernet, number                          | 1                                                                                                                                                                         |

| Feature                                                    | Value                                                                                                                                                                                 |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet, supported protocols                              | TCP/IP, EasyIP, Modbus® TCP                                                                                                                                                           |
| Ethernet, connector plug                                   | RJ45<br>Socket<br>8-pin                                                                                                                                                               |
| Ethernet, data transmission speed                          | 10/100 Mbit/s                                                                                                                                                                         |
| Parameterization                                           | CODESYS V3                                                                                                                                                                            |
| Configuration support                                      | CODESYS V3                                                                                                                                                                            |
| Additional functions                                       | Diagnostic functions<br>Motion functions for electric actuators                                                                                                                       |
| CPU data                                                   | 800 MHz processor                                                                                                                                                                     |
| Control interface                                          | CAN bus                                                                                                                                                                               |
| Nominal operating voltage DC                               | 24 V                                                                                                                                                                                  |
| Nominal operating voltage DC load voltage                  | Without pneumatics: 18 ... 30V<br>24 V<br>With midi/maxi pneumatic valves types: 21.6 ... 26.4 V<br>With pneumatic type CPA: 20.4 ... 26.4 V<br>With pneumatics type MPA: 18 ... 30 V |
| Intrinsic current consumption at nominal operating voltage | Typ. 85 mA                                                                                                                                                                            |
| Power failure buffering                                    | 10 ms                                                                                                                                                                                 |
| Programming, operating language                            | DE, EN                                                                                                                                                                                |
| Programming language                                       | as per IEC 61131-3<br>KOP<br>AWL<br>ST<br>FUP<br>AS<br>Additionally CFC                                                                                                               |
| Programming, file handling support                         | yes                                                                                                                                                                                   |
| Programming software                                       | CODESYS provided by Festo                                                                                                                                                             |
| Program memory                                             | 16 MB user program                                                                                                                                                                    |
| Processing time                                            | Approx. 200 µs/1 k instruction                                                                                                                                                        |
| Function blocks                                            | Read CPX module diagnostics<br>CPX diagnostic status<br>Copy CPX diagnostic trace<br>and others                                                                                       |
| Flag                                                       | CODESYS variable concept                                                                                                                                                              |
| Total number of axes                                       | 127                                                                                                                                                                                   |