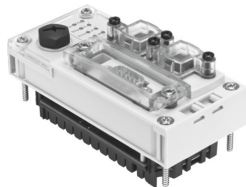


# Control block CPX-CEC-S1-V3

Part number: 3472425

**FESTO**



## Data sheet

| Feature                        | Value                                                                                                                                                                     |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protocol                       | CODESYS Level 2<br>EasyIP<br>Modbus® TCP<br>TCP/IP                                                                                                                        |
| Dimensions (W x L x H)         | 50 x 107 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                                                                                                                                             |
| Max. cable length              | 30 m                                                                                                                                                                      |
| LABS (PWIS) conformity         | VDMA24364-B2-L                                                                                                                                                            |
| Note on materials              | RoHS-compliant                                                                                                                                                            |
| Material housing               | PA-reinforced<br>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                                                            |
| Operator controls              | Rotary switch for RUN/STOP                                                                                                                                                |
| IP address setting             | DHCP<br>Via CODESYS<br>Via MMI                                                                                                                                            |
| Ethernet interface             | RJ45 (socket, 8-pin)                                                                                                                                                      |
| Ethernet, number               | 1                                                                                                                                                                         |
| Ethernet, supported protocols  | TCP/IP, EasyIP, Modbus TCP                                                                                                                                                |

| Feature                                            | Value                                                                                                                                                                                      |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet, plug connector                           | RJ45<br>Bushing<br>8-pin                                                                                                                                                                   |
| Ethernet, data transmission rate                   | 10/100 Mbit/s                                                                                                                                                                              |
| Parameterisation                                   | CODESYS V3                                                                                                                                                                                 |
| Configuration support                              | CODESYS V3                                                                                                                                                                                 |
| Additional functions                               | Diagnostic functions<br>RS232 communication function                                                                                                                                       |
| CPU data                                           | 256 MB RAM<br>32 MB flash<br>800 MHz processor                                                                                                                                             |
| Nominal operating voltage DC                       | 24 V                                                                                                                                                                                       |
| Nominal DC operating voltage, load voltage         | Without pneumatic components: 18 ... 30 V<br>24 V<br>With pneumatics type midi/maxi: 21.6 ... 26.4 V<br>With pneumatics type CPA: 20.4 ... 26.4 V<br>With pneumatics type MPA: 18 ... 30 V |
| Intern power consumption nominal operating voltage | Typ. 85 mA                                                                                                                                                                                 |
| Power failure bridging                             | 10 ms                                                                                                                                                                                      |
| Serial interface, number                           | 1                                                                                                                                                                                          |
| Data interface                                     | RS 232 interface<br>Sub-D, 9-pin, bushing<br>9.6 ... 230.4 kbit/s<br>Galvanically isolated                                                                                                 |
| Programming, operating language                    | DE, EN                                                                                                                                                                                     |
| Programming language                               | To IEC 61131-3<br>KOP<br>AWL<br>ST<br>FUP<br>AS<br>Additionally CFC                                                                                                                        |
| Programming, support for file handling             | yes                                                                                                                                                                                        |
| Programming software                               | CODESYS provided by Festo                                                                                                                                                                  |
| Program memory                                     | 16 MB user program                                                                                                                                                                         |
| Processing time                                    | Approx. 200 µs/1 k instruction                                                                                                                                                             |
| Function modules                                   | Read CPX module diagnostics<br>CPX diagnostic status<br>Copy CPX diagnostic trace<br>And others                                                                                            |
| Flag                                               | 28 kB remanent data<br>CODESYS variable concept                                                                                                                                            |