

# Digital output module CPX-AP-I-8DO-M8-3P

Part number: 8179438

**FESTO**



## Data sheet

| Feature                                                   | Value                                                                                         |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Dimensions W x L x H                                      | 30 mm x 170 mm x 35 mm                                                                        |
| Type of mounting                                          | On H-rail with accessories<br>With through-hole                                               |
| Product weight                                            | 127 g                                                                                         |
| Ambient temperature                                       | -20 °C...60 °C                                                                                |
| Storage temperature                                       | -40 °C...70 °C                                                                                |
| Relative air humidity                                     | 5 - 95%<br>Non-condensating                                                                   |
| Degree of protection                                      | IP65<br>IP67                                                                                  |
| Note on degree of protection                              | Unused connections sealed                                                                     |
| Corrosion resistance class (CRC)                          | 1 - Low corrosion stress                                                                      |
| Max. cable length                                         | 30 m outputs<br>50 m system communication                                                     |
| Information on max. cable length                          | Power supply according to nominal voltage                                                     |
| LABS (PWIS) conformity                                    | VDMA24364-B2-L                                                                                |
| Cleanroom suitability, measured according to ISO 14644-14 | Statically installed element, no meaningful evaluation possible<br>according to ISO 14644-1   |
| CE marking (see declaration of conformity)                | As per EU EMC directive                                                                       |
| UKCA marking (see declaration of conformity)              | To UK instructions for EMC                                                                    |
| KC characters                                             | KC-EMV                                                                                        |
| Certification                                             | RCM compliance mark<br>c UL us - Listed (OL)                                                  |
| Certificate issuing authority                             | UL E239998                                                                                    |
| Note on materials                                         | RoHS compliant                                                                                |
| Housing material                                          | PA<br>PC<br>Die-cast zinc, nickel-plated                                                      |
| O-ring material                                           | FPM                                                                                           |
| Diagnostics via LED                                       | Diagnostics per module<br>Load power supply<br>Status per channel                             |
| Diagnose per internal communication                       | Load switch-off<br>Short-circuit/overload in output signal<br>Electronics/sensors overvoltage |

| Feature                                                                            | Value                                                                     |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
|                                                                                    | Overvoltage load<br>Electronics/sensors undervoltage<br>Undervoltage load |
| No. of outputs                                                                     | 8                                                                         |
| Communication interface, function                                                  | System communication XF10 IN / XF20 OUT                                   |
| Communication interface, connection type                                           | 2x port                                                                   |
| Communication interface, connection technology                                     | M8x1, D-coded as per EN 61076-2-114                                       |
| Communication interface, number of pins/wires                                      | 4                                                                         |
| Communication interface, protocol                                                  | AP                                                                        |
| Communication interface, shielding                                                 | Yes                                                                       |
| Power supply, function                                                             | Incoming electronics/sensors and load                                     |
| Power supply, type of connection                                                   | Plug                                                                      |
| Power supply, connection technology                                                | M8x1, A-coded as per EN 61076-2-104                                       |
| Power supply, number of pins/wires                                                 | 4                                                                         |
| Voltage forwarding, function                                                       | Outgoing electronics/sensors and load                                     |
| Voltage forwarding, connection type                                                | Socket                                                                    |
| Voltage forwarding, connection technology                                          | M8x1, A-coded as per EN 61076-2-104                                       |
| Voltage forwarding, number of pins/wires                                           | 4                                                                         |
| Note regarding operating voltage                                                   | SELV/PELV fixed power supplies required<br>Note voltage drop              |
| Nominal operating voltage DC load                                                  | 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                                                                  | 2 x 4 A (external fuse required)                                          |
| Intrinsic current consumption at nominal operating voltage for electronics/sensors | Typically 35 mA                                                           |
| Intrinsic current consumption at nominal operating voltage load                    | Typically 10 mA                                                           |
| Power failure buffering                                                            | 10 ms                                                                     |
| Reverse polarity protection                                                        | Yes                                                                       |
| Electrical connection output, function                                             | Digital output                                                            |
| Electrical connection output, connection type                                      | 8x port                                                                   |
| Electrical connection output, connection technology                                | M8x1, A-coded as per EN 61076-2-104                                       |
| Electrical output connection, number of pins/wires                                 | 3                                                                         |
| Characteristic curve outputs                                                       | As per IEC 61131-2, type 0.5                                              |
| Switching logic at outputs                                                         | PNP (positive switching)                                                  |
| Fuse protection outputs (short circuit)                                            | Internal electronic fuse per channel                                      |
| Output delay with resistive load                                                   | Signal change 0->1: < 200 µs<br>Signal change 1->0: < 200 µs              |
| Max. residual current of outputs per module                                        | 4 A                                                                       |
| Electrical isolation of outputs between channels                                   | No                                                                        |
| Electrical isolation of outputs between channel - internal communication           | Yes                                                                       |
| Max. power supply per channel                                                      | 0.5 A                                                                     |