

# PROFINET Interface CPX-AP-I-PN-M12

Part number: 8086607

FESTO



 General operating condition

## Data sheet

| Feature   | Value  |
|---|--|
| Dimensions W x L x H                                      | 45 mm x 170 mm x 35 mm   |
| Type of mounting  | On H-rail with accessories<br>With through-hole  |
| Max. number of modules                                    | 80   |
| Product weight  | 186 g  |
| Ambient temperature                                       | -20 °C ... 60 °C   |
| Storage temperature                                       | -40 °C ... 70 °C   |
| Relative air humidity                                     | 5 - 95 %<br>Non-condensing   |
| 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   | 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 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 EMC   |
| Certification   | RCM compliance mark<br>c UL us - Listed (OL)   |
| Certificate issuing authority                             | UL E239998   |
| Note on materials   | RoHS-compliant   |
| Housing material  | PC<br>Die-cast zinc, nickel-plated   |
| O-ring material   | FPM  |
| Diagnostics via LED                                       | Diagnostics per module<br>Network error<br>Power supply for electronics/sensors<br>Load power supply<br>System diagnostics<br>Maintenance required |

| Feature  | Value   |
|--|---|
| Diagnostics via bus  | APDD invalid<br>Load switch-off<br>Communication with AP module interrupted<br>Electronics/sensors overvoltage<br>Load overvoltage<br>Electronics/sensors undervoltage<br>Load undervoltage |
| Diagnose per internal communication  | Module error<br>Output short circuit/overload<br>Short circuit/overload in sensor supply<br>Load supply undervoltage  |
| Fieldbus interface, type   | Ethernet  |
| Fieldbus interface, protocol   | PROFINET IRT<br>PROFINET RT   |
| Fieldbus interface, function   | Bus connection, incoming/forwarding   |
| Fieldbus interface, connection type  | 2x socket   |
| Fieldbus interface, connection technology  | M12x1, D-coded as per EN 61076-2-101  |
| Fieldbus interface, number of poles/wires  | 4   |
| Fieldbus interface, galvanic isolation   | yes   |
| Fieldbus interface, transmission rate  | 100 Mbit/s  |
| Max. address capacity inputs   | 1024 byte   |
| Max. address capacity outputs  | 1024 byte   |
| Configuration support  | GSDML file  |
| Communication interface, function  | System communication XF20 OUT / XF21 OUT  |
| Communication interface, connection type   | 2x socket   |
| 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 80 mA   |
| Intrinsic current consumption at nominal operating voltage load                    | Typically 5 mA  |
| Power failure buffering  | 10 ms   |
| Reverse polarity protection  | yes   |