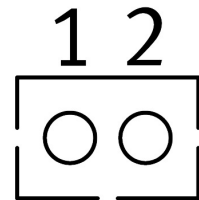


# PROFINET Interface CPX-AP-A-PN-FO

Part number: 8129246

FESTO



## Data sheet

| Feature                                 | Value   |
|---|---|
| Dimensions W x L x H                    | (incl. interlinking block)<br>50.1 mm x 107.3 mm x 94.2 mm  |
| Width dimension                         | 50.1 mm...50.1 mm   |
| Type of mounting                        | Screwed tightly   |
| Max. number of modules                  | 80 ...80  |
| Product weight                          | 182 g...182 g   |
| Mounting position                       | Any   |
| Ambient temperature                     | -20 °C...-20 °C   |
| Note on ambient temperature             | Observe ambient temperature derating according to IEC 61131-2:2017  |
| Storage temperature                     | -20 °C...-20 °C   |
| Relative air humidity                   | 5 - 95 %<br>Non-condensing  |
| Nominal altitude of use above sea level | <= 2000 m ASL (> 79.5 kPa)  |
| Max. installation height                | 3500 m  |
| Information on max. installation height | > 2000 m ASL (< 79.5 kPa)<br>Observe ambient temperature derating according to IEC 61131-2:2017   |
| Corrosion resistance class (CRC)        | 1 - Low corrosion stress  |
| Vibration resistance                    | Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6  |
| Note on vibration resistance            | SG1 on H-rail<br>SG2 on direct mounting<br>Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6                     |
| Shock resistance                        | Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27   |
| Note on shock resistance                | 30 g/11 ms as per EN 60068-2-27<br>SG1 on H-rail<br>SG2 on direct mounting<br>Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27 |
| Protection class                        | III   |
| Contamination level                     | 2   |
| Overvoltage category                    | II  |
| Max. cable length                       | 50 m PROFINET   |

| Feature  | Value  |
|--|--|
| LABS (PWIS) conformity                                   | VDMA24364-B2-L   |
| Material fire test                                       | UL94 V-0 (housing)   |
| Note on materials  | RoHS-compliant<br>Halogen-free<br>Free of phosphoric acid ester  |
| Cover material   | PBT-reinforced   |
| Material of flange                                       | Die-cast zinc, nickel-plated   |
| Material of screws                                       | Steel, nickel-plated   |
| Threaded sleeve material                                 | High-alloy stainless steel   |
| Seals material   | NBR  |
| O-ring material  | FPM  |
| Diagnostics via LED                                      | Diagnostics per module<br>PROFINET communication<br>Power supply for electronics/sensors<br>Load power supply<br>System diagnostics<br>Maintenance required            |
| Diagnostics via bus                                      | APDD invalid<br>Load switch-off<br>Communication error<br>Electronics/sensors overvoltage<br>Load overvoltage<br>Electronics/sensors undervoltage<br>Load undervoltage |
| Fieldbus interface, type                                 | Ethernet   |
| Fieldbus interface, protocol                             | LLDP<br>MRP, MRPD (ring redundancy)<br>PROFINET FSU<br>PROFINET I&MO ..3<br>PROFINET IRT<br>PROFINET RT<br>PROFINET Shared device<br>S2 system redundancy<br>SNMP      |
| Fieldbus interface, connection type                      | 2x socket  |
| Fieldbus interface, connection technology                | SCRJ as per IEC 61754-24-21  |
| Fieldbus interface, number of poles/wires                | 2 ...2   |
| Fieldbus interface, galvanic isolation                   | yes  |
| Fieldbus interface, transmission rate                    | 100 Mbit/s   |
| Fieldbus interface, note on transmission rate            | 100 Mbit, switched fast Ethernet   |
| Max. address capacity inputs                             | 1024 byte  |
| Max. address capacity outputs                            | 1024 byte  |
| Module parameters  | Configuration of voltage monitoring, load supply PL  |
| Internal cycle time                                      | < 1 ms   |
| Configuration support                                    | GSDML file   |
| Communication interface, function                        | System communication XF20 OUT  |
| Communication interface, connection type                 | 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  |
| Note regarding operating voltage                         | SELV/PELV fixed power supplies required<br>Note voltage drop   |
| Note on nominal operating voltage DC                     | Protected Extra-Low-Voltage as per IEC 60204-1   |
| 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 %   |

| Feature  | Value            |
|--|------------------|
| Intrinsic current consumption at nominal operating voltage for electronics/sensors             | Typically 115 mA |
| Intrinsic current consumption at nominal operating voltage load                                | Typically 4 mA   |
| Power failure buffering  | 10 ms            |
| Potential separation between the supply voltages electronics/sensor technology and load/valves | yes              |
| Reverse polarity protection  | yes              |