

Digital input/output module CPX-AP-I-4DI4DO-M8-3P

Part number: 8086601

FESTO



Data sheet

| Feature | Value |
|--|--|
| Dimensions (W x L x H) | 30 x 170 x 35 mm |
| Type of mounting | On H-rail via accessories With through-hole |
| Product weight | 129 g |
| Ambient temperature | -20 °C...50 °C |
| Storage temperature | -40 °C...70 °C |
| Relative air humidity | 5 - 95% Non-condensing |
| Degree of protection | IP65 IP67 |
| Note on degree of protection | Unused connections sealed |
| Corrosion resistance class CRC | 1 - Low corrosion stress |
| Max. cable length | 30 m outputs 30 m inputs 50 m system communication |
| Note on max. cable length | Power supply according to nominal voltage |
| LABS (PWIS) conformity | VDMA24364-B2-L |
| Cleanroom class | Element installed statically, no meaningful evaluation possible according to ISO 14644-1 |
| CE mark (see declaration of conformity) | To EU EMC Directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC |
| KC mark | KC-EMV |
| Approval | RCM trademark c UL us listed (OL) |
| Certificate issuing authority | UL E239998 |
| Note on materials | RoHS-compliant |
| Material housing | PA PC Die-cast zinc, nickel-plated |
| Material o-ring | FPM |
| Diagnostics via LED | Diagnostics per module Load power supply Status per channel |

| Feature | Value |
|--|---|
| Diagnostics per internal communication | Load switch-off Short-circuit/overload in output signal Short circuit/overload in sensor supply Electronics/sensors overvoltage Load overvoltage Electronics/sensors undervoltage Load undervoltage |
| Number of outputs | 4 |
| Communication interface, function | System communication XF10 IN / XF20 OUT |
| Communication interface, connection type | 2x socket |
| Communication interface, connection technology | M8x1, D-coded according to 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, connection type | Plugs |
| power supply, connection system | M8x1, A-coded to EN 61076-2-104 |
| Power supply, number of pins/wires | 4 |
| Power transmission, function | Outgoing electronics/sensors and load |
| Power transmission, connection type | Socket |
| Power transmission, connection technology | M8x1, A-coded to EN 61076-2-104 |
| Power transmission, number of pins/wires | 4 |
| Note regarding operating voltage | SELV/PELV fixed power supplies required Note voltage drop |
| Nominal operating voltage DC of load | 24 V |
| Permissible voltage fluctuation of load | ± 25 % |
| Nominal DC operating voltage, 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 bridging | 10 ms |
| Reverse polarity protection | yes |
| Electrical connection input, function | Digital input |
| Electrical connection input, connection type | 4x socket |
| Electrical connection input, connector system | M8x1, A-coded to EN 61076-2-104 |
| Electrical connection input, number of connections/cores | 3 |
| Number of inputs | 4 |
| Characteristic for inputs | To IEC 61131-2, type 3 |
| Switching level | Signal 0: ≤ 5 V Signal 1: ≥ 11 V |
| Switching logic for inputs | PNP (positive switching) 2-wire sensors to IEC 61131-2 3-wire sensors to IEC 61131-2 |
| Input debounce time | 0.1 ms 3 ms 10 ms 20 ms |
| Fuse protection of inputs (short circuit) | Internal electronic fuse per module |
| Max. residual current of inputs per module | 1.8 A |
| Electrical isolation of inputs between channels | no |
| Electrical isolation of inputs between channel - internal communication | yes |
| Electrical connection output, function | Digital output |
| Electrical connection output, connection type | 4x socket |
| Electrical connection output, connector system | M8x1, A-coded to EN 61076-2-104 |
| Electrical connection output, number of connections/cores | 3 |

| Feature | Value |
|--|--|
| Characteristic for outputs | According to IEC 61131-2, type 0.5 |
| Switching logic for outputs | PNP (positive switching) |
| Fuse protection of outputs (short circuit) | Internal electronic fuse per channel |
| Output delay with ohmic load | Signal change 0->1: < 200 µs Signal change 1->0: < 200 µs |
| Max. residual current outputs per module | 2 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 |