

Digital input module CPX-AP-I-8DI-M12-5P

Part number: 8086602

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 With through-hole |
| Product weight | 126 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 inputs 50 m system communication |
| Information on max. cable length | Power supply according to nominal voltage |
| LABS (PWIS) conformity | VDMA24364-B2-L |
| Cleanroom class | 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 c UL us - Listed (OL) |
| Certificate issuing authority | UL E239998 |
| Note on materials | RoHS-compliant |
| Housing material | PA PC Die-cast zinc, nickel-plated |
| O-ring material | FPM |
| Diagnostics via LED | Diagnostics per module Status per channel |
| Diagnose per internal communication | Short circuit/overload in sensor supply Electronics/sensors overvoltage Electronics/sensors undervoltage |

| Feature | Value |
|--|--|
| Communication interface, function | System communication XF10 IN / XF20 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 Note voltage drop |
| 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 32 mA |
| Power failure buffering | 10 ms |
| Reverse polarity protection | yes |
| Electrical connection input, function | Digital input |
| Electrical connection input, connection type | 4x socket |
| Electrical input connection, connection technology | M12x1 A-coded as per EN 61076-2-101 |
| Electrical connection, input, number of pins/wires | 5 |
| No. of inputs | 8 |
| Input characteristics | As per IEC 61131-2, type 3 |
| Switching level | Signal 0: ≤ 5 V Signal 1: ≥ 11 V |
| Input switching logic | PNP (positive switching) 2-wire sensors as per IEC 61131-2 3-wire sensors as per IEC 61131-2 |
| Input debounce time | 0.1 ms 3 ms 10 ms 20 ms |
| Fuse protection 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 |
| Digital inputs, electrical isolation of input - internal communication | yes |