Digital input module CPX-AP-L-16NDI-PI

Part number: 8176326



Data sheet

| Feature | Value |
|--|--|
| Dimensions (W x L x H) | 90 mm x 106 mm x 70 mm |
| Type of mounting | With H-rail |
| Product weight | 145 g |
| Ambient temperature | -20 °C50 °C |
| Storage temperature | -40 °C70 °C |
| Relative air humidity | 5 - 95% Non-condensing |
| Degree of protection | IP20 |
| Corrosion resistance class CRC | 0 - No corrosion stress |
| Vibration resistance | Transport application test with severity level 1 to FN 942017-4 and EN 60068-2-6 |
| Shock resistance | Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27 |
| Pollution degree | 2 |
| Overvoltage category | II |
| Max. cable length | 30 m inputs 50 m system communication |
| Note on max. cable length | Power supply according to nominal voltage |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Cleanroom class | Element installed statically, no meaningful evaluation possible according to ISO 14644-1 |
| CE mark (see declaration of conformity) | To EU EMC Directive In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC To UK RoHS instructions |
| KC mark | KC-EMV |
| Approval | RCM trademark |
| Note on materials | RoHS-compliant Free of halogen |
| Material housing | PA66 PVC |
| Diagnostics via LED | Diagnostics per module Status per channel |

| Feature | Value |
|--|--|
| Diagnostics per internal communication | Short circuit/overload in sensor supply Electronics/sensors overvoltage Electronics/sensors undervoltage |
| Max. address volume, inputs | 2 Byte |
| Communication interface, function | System communication XF10 IN / XF20 OUT |
| Communication interface, connection type | 2x socket |
| Communication interface, connection technology | RJ45 |
| 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 | Push-pull according to IEC 61984 |
| Power supply, number of pins/wires | 4 |
| Power transmission, function | Outgoing electronics/sensors and load |
| Power transmission, connection type | Socket |
| Power transmission, connection technology | Push-pull according to IEC 61984 |
| Power transmission, number of pins/wires | 4 |
| Note regarding operating voltage | SELV/PELV fixed power supplies required Note voltage drop |
| Nominal operating voltage DC | 24 V |
| 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 32 mA |
| Power failure bridging | 10 ms |
| Reverse polarity protection | yes |
| Electrical connection input, function | Digital input |
| Electrical connection input, connection type | 2x socket |
| Number of inputs | 16 |
| Characteristic for inputs | To IEC 61131-2, type 3 |
| Switching level | Signal 0: (PS - 5 V) to PS Signal 1: 0 V to (PS - 11 V) |
| Switching logic for inputs | NPN (negative switching) 2-wire sensors to IEC 61131-2 3-wire sensors to IEC 61131-2 |
| Input debounce time | 0.1 ms 3 ms (standard) 10 ms 20 ms |
| Fuse protection of inputs (short circuit) | Glass cartridge fuse |
| Max. residual current of inputs per module | 4 A |
| Electrical isolation of inputs between channels | no |
| Electrical isolation of inputs between channel - internal communication | No |
| Electrical connection output, connector system | Push-pull according to IEC 61984 |