# IO-Link master module
# CPX-E-4IOL

Part number: 4080495

## Data sheet

| Feature | Value |
|---|---|
| Dimensions W x L x H | 18.9 mm x 76.6 mm x 124.3 mm |
| Width dimension | 18.9 mm |
| Type code | CPX-E |
| Diagnostics via LED | Faults per module<br>Status per channel |
| Diagnostics via bus | Device missing/failed<br>Wire break<br>Module error<br>Short circuit<br>Parameter error<br>Underflow/overflow<br>Undervoltage<br>General error |
| Module parameters | Actuator supply short circuit diagnostics<br>Response to short circuit/overload<br>Deactivate sensor supply |
| Channel parameters | Forcing channel x<br>Deactivate actuator supply<br>Device fault code<br>Channel mode<br>Channel status<br>Cycle time |
| Fuse protection (short circuit) | Internal electronic fuse, load per channel<br>Internal electronic fuse, sensor per module |
| Intrinsic current consumption at nominal operating voltage for electronics/sensors | Typically 50 mA |
| Intrinsic current consumption at nominal operating voltage load | Typically 15 mA |
| Nominal operating voltage DC for electronics/sensors | 24 V |
| Nominal operating voltage DC load | 24 V |
| Electrical isolation between channel and internal bus | no |
| Electrical isolation between channels | no |
| Permissible voltage fluctuations for electronics/sensors | ± 25 % |
| Permissible voltage fluctuations load | ± 25 % |
| Power supply, type of connection | Terminal strip |
| Power supply, connection technology | Spring-loaded terminal |
| Power supply, number of pins/wires | 4 |
| Power supply, connection pattern | 00995847 |
| Power supply, conductor diameter | 0.2 mm² ... 1.5 mm² |
| Power supply, information on conductor diameter | 0.2 - 2.5 mm² for flexible conductors without cable end sleeves |
| Certification | RCM compliance mark<br>c UL us - Listed (OL) |

| Feature | Value |
|---|---|
| KC characters | KC EMC |
| CE marking (see declaration of conformity) | As per EU EMC directive |
| Certificate issuing authority | UL E239998 |
| Vibration resistance | Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6 |
| Shock resistance | Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27 |
| Corrosion resistance class (CRC) | 0 - No corrosion stress |
| Storage temperature | -20 ºC ... 70 ºC |
| Relative air humidity | 95 % Non-condensing |
| Protection against direct and indirect contact | PELV |
| Degree of protection | IP20 |
| Ambient temperature | -5 ºC ... 50 ºC |
| Note on ambient temperature | -5 - 50 ºC for horizontal installation |
| Product weight | 96 g |
| Protocol | IO-Link® |
| IO-Link®, protocol version | Master V 1.1 |
| IO-Link®, communication mode | Configurable via software SIO, COM1 (4.8 kBd), COM2 (38.4 kBd), COM3 (230.4 kBd) |
| IO-Link®, port class | B |
| IO-Link®, number of ports | 4 |
| IO-Link®, process data width OUT | 8–32 bytes parameterizable |
| IO-Link®, process data width IN | 8–32 bytes parameterizable |
| IO-Link®, minimum cycle time | Depends on minimally supported cycle time of connected IO-Link® device |
| IO-Link®, communication | C/Q LED green |
| Electrical IO-Link® connection, connection type | 4x terminal strip |
| Electrical connection, IO-Link®, connection technology | Spring-loaded terminal |
| Electrical IO-Link® connection, number of pins/wires | 6 |
| Electric IO-Link® connection, connection pattern | 00995843 |
| IO-Link® electrical connection, conductor cross section | 0.2 mm² ... 1.5 mm² |
| IO-Link® electrical connection, information on conductor cross section | 0.2 - 2.5 mm² for flexible conductors without cable end sleeves |
| Type of mounting | With H-rail |
| Note on materials | Contains paint-wetting impairment substances RoHS-compliant |
| Housing material | PA |