

# Input module CTSL-D-16E-M12-5

Part number: 1387359

FESTO



 General operating condition

## Data sheet

| Feature                                                 | Value                                                                         |
|---------------------------------------------------------|-------------------------------------------------------------------------------|
| Protocol                                                | I-Port<br>IO-Link®                                                            |
| Dimensions (W x L x H)                                  | 143 x 103 x 32 mm                                                             |
| Type of mounting                                        | Either:<br>With through-hole<br>With H-rail                                   |
| Product weight                                          | 250 g                                                                         |
| Ambient temperature                                     | -5 °C ... 50 °C                                                               |
| Storage temperature                                     | -20 °C ... 70 °C                                                              |
| Degree of protection                                    | IP65<br>IP67                                                                  |
| Corrosion resistance class CRC                          | 2 - Moderate corrosion stress                                                 |
| LABS (PWIS) conformity                                  | VDMA24364-B2-L                                                                |
| CE mark (see declaration of conformity)                 | To EU EMC Directive<br>In accordance with EU RoHS Directive                   |
| UKCA marking (see declaration of conformity)            | To UK instructions for EMC<br>To UK RoHS instructions                         |
| KC mark                                                 | KC-EMV                                                                        |
| Approval                                                | RCM trademark<br>c UL us listed (OL)                                          |
| Certificate issuing authority                           | UL E239998                                                                    |
| Note on materials                                       | RoHS-compliant                                                                |
| Material housing                                        | PA-reinforced                                                                 |
| Material cover                                          | PA-reinforced                                                                 |
| LED display, product-specific                           | 1 hp electrical operating voltage<br>16 Channel status<br>2 Group diagnostics |
| LED display, bus-specific                               | X20: I-Port/IO-Link®                                                          |
| Max. number of inputs                                   | 16                                                                            |
| Baud rate                                               | 38.4 kbit/s, 230.4 kbit/s                                                     |
| Electrical connection                                   | 5-pin<br>8x socket<br>M12                                                     |
| Operational voltage range DC                            | 18 V ... 30 V                                                                 |
| Nominal operating voltage DC                            | 24 V                                                                          |
| Current consumption at nominal operating voltage, logic | ≤35 mA                                                                        |
| Reverse polarity protection                             | For operating voltage                                                         |
| Characteristic for inputs                               | IEC1131-T2                                                                    |

| Feature                         | Value                                                       |
|---------------------------------|-------------------------------------------------------------|
| Switching level                 | Signal 0: $\leq 5\text{ V}$<br>Signal 1: $\geq 11\text{ V}$ |
| Switching logic for inputs      | PNP (positive switching)                                    |
| Input debounce time             | 0.5 ms (3 ms, 10 ms, 20 ms, parameterisable)                |
| Max. total current per module   | 1.2 A                                                       |
| Isolation channel - channel     | no                                                          |
| Fuse protection (short circuit) | Internal electronic fuse protection for each group          |
| IO-Link, connection technology  | Device, 5-pin                                               |
| IO-Link, Number of ports        | 1                                                           |
| IO-Link, Port class             | B                                                           |
| IO-Link, Protocol version       | Device V 1.0                                                |
| IO-Link, communication mode     | COM2 (38.4 kBaud), COM3 (230.4 kBaud)                       |
| IO-Link, Process data length IN | 2 bytes                                                     |
| IO-Link, Min. cycle time        | Device 3.2 ms                                               |