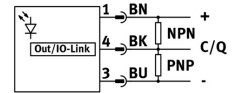


Fork light barrier SOOF-M-FL-SM-C50-P

Part number: 553555

FESTO



General operating condition

Data sheet

| Feature | Value |
|--|--|
| Symbol | 00995956 |
| Certification | RCM compliance mark c UL us - Listed (OL) |
| CE marking (see declaration of conformity) | As per EU EMC directive As per EU RoHS directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC To UK RoHS instructions |
| Note on materials | RoHS-compliant |
| Measured variable | Position |
| Measuring principle | Optoelectronic |
| Method of measurement | Fork light barrier |
| Type of light | Red |
| Minimum object diameter | 0.3 mm |
| Note on min. object diameter | 0.3 mm with standard mode 0.2 mm with high resolution mode 1.0 mm with power mode 0.3 mm with speed mode |
| Ambient temperature | -25 °C ... 60 °C |
| Repetition accuracy | 0.02 mm |
| Switching output | Push-pull NPN PNP |
| Switching element function | Switchable |
| Hysteresis | ≤0.1 mm |
| Max. switching frequency | 5000 Hz |
| Note on switching frequency | 5000 Hz with standard mode 1500 Hz with high resolution mode 250 Hz with power mode 8000 Hz with speed mode |
| Max. output current | 100 mA |
| Timer function | Via IO-Link® |
| Short-circuit protection | Pulsed |
| Protocol | IO-Link® |
| IO-Link®, protocol version | Device V 1.1 |
| IO-Link®, profile | Smart sensor profile |
| IO-Link®, function classes | Binary data channel (BDC) Process data variable (PDV) Identification Diagnostics Teach channel |

| Feature | Value |
|------------------------------------|--|
| IO-Link®, communication mode | COM2 (38,4 kBd) |
| IO-Link®, SIO mode support | Yes |
| IO-Link®, port class | A |
| IO-Link®, process data width OUT | 0 Byte |
| IO-Link®, process data width IN | 2 Byte |
| IO-Link®, process data content IN | 1 bit BDC (switching signal) 1 bit BDC (stability) 12 bit PDV (signal level) |
| IO-Link®, service data contents IN | 16 bit maximum signal level 16 bit minimum signal level 16 bit temperature 32 bit switching counter 8 bit teach-in quality |
| IO-Link®, minimum cycle time | 2.3 ms |
| IO-Link®, data memory required | 73 byte |
| DC operating voltage range | 10 V ... 30 V |
| Residual ripple | ± 5 % |
| Idle current | 30 mA |
| Reverse polarity protection | for all electrical connections |
| Electrical connection | 3-pin M8x1 Plug |
| Size | Clevis 50x55 mm |
| Fork gap | 50 mm |
| Product weight | 96 g |
| Housing material | Die-cast metal, coated |
| Switching status indication | LED yellow |
| Setting options | IO-Link® Potentiometer |
| Degree of protection | IP67 |
| Insulation voltage | 500 V |
| Surge resistance | 0.8 kV |
| Corrosion resistance class (CRC) | 0 - No corrosion stress |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Contamination level | 3 |