

Diffuse scan SOOE-BS-L-PNLK-T

Part number: 8075670

FESTO



 [General operating condition](#)

Data sheet

| Feature | Value |
|--|---|
| Design | Block design |
| Conforms to standard | EN 60947-5-2 |
| 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 RoHS instructions |
| Certificate issuing authority | UL E232949 |
| Note on materials | RoHS compliant |
| Measuring principle | Optoelectronic |
| Detection method | Reflection light sensor with HGA |
| Type of light | Laser Red |
| Max. light spot | 1 mm at a sensing range of 200 mm |
| Minimum object diameter | 2 mm |
| Working range | 7 mm ... 300 mm |
| Ambient temperature | -40 °C ... 60 °C |
| Max. black-white difference | 45 % |
| Reference material | Standard white 90%, 100x100 mm |
| Switching output | Push-pull |
| Switching element function | Switchable PNP, light-switching NPN, dark-switching |
| Hysteresis | 18 mm |
| Max. switching frequency | 1650 Hz |
| Max. output current | 100 mA |
| Voltage drop | 0 V ... 1.5 V |
| 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 | Process data variable (PDV) Identification Diagnostics Teach channel Switching signal channel (SSC) |

| 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 | 2 bit |
| IO-Link®, process data content OUT | 1 bit (emitter disable) 1 bit (hold) |
| IO-Link®, process data width IN | 1 bit |
| IO-Link®, process data content IN | 1 bit SSC (switching signal) |
| IO-Link®, minimum cycle time | 2.3 ms |
| IO-Link®, data memory required | 2000 byte |
| DC operating voltage range | 10 V ... 30 V |
| Residual ripple | 10% |
| Idle current | 25 mA |
| Reverse polarity protection | for all electrical connections |
| Electrical connection 1, connection type | Plug |
| Electrical connection 1, connection technology | M8x1 A-coded as per EN 61076-2-104 |
| Electrical connection 1, number of pins/wires | 3 |
| Electrical connection 1, type of mounting | Screw-type lock |
| Electrical connection for input 1, connection pattern | 00991155 |
| Material of pin contacts | Gold-plated brass |
| Type of mounting | With through-hole for M3 screw |
| Tightening torque | 0.8 Nm |
| Mounting position | Any |
| Product weight | 10 g |
| Housing material | PC PMMA |
| Ready status indication | Green LED |
| Switching status indication | Yellow LED |
| Setting options | IO-Link® Potentiometer Teach-in |
| Setting range, lower limit | 25 mm |
| Setting range, upper limit | 300 mm |
| Degree of protection | IP65 IP67 IP69K |
| Insulation voltage | 500 V |
| Surge resistance | 1 kV |
| Corrosion resistance class (CRC) | 1 - Low corrosion stress |
| LABS (PWIS) conformity | VDMA24364 Zone III |
| Laser safety class | 1 |
| Contamination level | 3 |