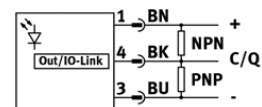


Diffuse light sensor SOOE-DS-R-PNLK-T

Part number: 8075663

FESTO



Data sheet

| Feature | Value |
|--|---|
| Design | Block design |
| Conforms to standard | EN 60947-5-2 |
| Authorization | RCM Mark c UL us - Listed (OL) |
| CE symbol (see declaration of conformity) | according to EU-EMV guideline in accordance with EU RoHS directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC To UK RoHS instructions |
| Certificate issuing department | UL E232949 |
| Materials note | Conforms to RoHS |
| Measuring principle | Optoelectronic |
| Detection method | Diffuse reflection sensor |
| Type of light | Red LED |
| Max. spot diameter | 65 mm at a sensing range of 1000 mm |
| Working range | 2 ... 1,000 mm |
| Ambient temperature | -40 ... 60 °C |
| Reference material | Standard white 90%, 100x100 mm |
| Switch output | Push-pull |
| Switching element function | Switchable PNP, light switching NPN, dark switching |
| Hysteresis | 200 mm |
| Max. switching frequency | 1,000 Hz |
| Max. output current | 100 mA |
| Voltage drop | 0 ... 1.5 V |
| Timer function | Via IO-Link® |
| Short circuit strength | Pulsing |
| Protocol | IO-Link |
| IO-Link, protocol | Device V 1.1 |
| IO-Link, communication mode | COM2 (38,4 kBaud) |
| IO-Link, SIO mode support | Yes |
| IO-Link, port type | 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 | 2 Kilobyte |
| Operating voltage range DC | 10 ... 30 V |
| Residual ripple | 10 % |
| Idle current | 25 mA |
| Polarity protected | for all electrical connections |
| Electrical connection 1, connection type | Plug |
| Electrical connection 1, connection technology | M8x1, A-coded to EN 61076-2-104 |

| Feature | Value |
|---|--------------------------------------|
| Electrical connection 1, number of pins/wires | 3 |
| Electrical connection 1, type of mounting | Screw lock |
| Material electrical contact | Brass, gold-plated |
| Mounting type | With through-hole for M3 screw |
| Tightening torque | 0.8 Nm |
| Assembly position | Any |
| Product weight | 10 g |
| Material housing | PC PMMA |
| Ready status display | Green LED |
| Operating status display | Yellow LED |
| Setting options | IO-Link Potentiometer Teach-In |
| Setting range lower limit | 75 mm |
| Upper limit of adjustment range | 1,000 mm |
| Protection class | IP65 IP67 IP69K |
| Insulation voltage | 500 V |
| Surge strength | 1 kV |
| Corrosion resistance classification CRC | 1 - Low corrosion stress |
| PWIS conformity | VDMA24364 zone III |
| Degree of contamination | 3 |