

Retro-reflective sensor SOOE-RS-R-PNLK-T

Part number: 8075666

FESTO



 General operating condition

Data sheet

| Feature | Value |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design | Block design |
| Conforms to standard | EN 60947-5-2 |
| Symbol | 00995956 |
| Approval | RCM c UL us - Listed (Oil) |
| CE mark (see declaration of conformity) | To EU EMC Directive In accordance with 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 | Retro-reflective sensor |
| Type of light | Red LED |
| Max. light spot | 65 mm with 1000 mm |
| Operating distance | 0 mm ... 6500 mm |
| Sensor reflector distance | 40 ... 6500 mm SARA-R-Q50-S 100 ... 4000 mm SARA-R-Q50-MC 100 ... 2700 mm SARA-RF-Q100-S 100 ... 6000 mm SARA-RF-Q100-MC 40 ... 2500 mm SARA-R-Q20-S 100 ... 2500 mm SARA-R-Q20-MC 100 ... 1200 mm SARA-R-Q14-M 100 ... 1600 mm SARA-R-D20-M |
| Ambient temperature | -40 °C ... 60 °C |
| Reference material | Reference reflector: SARA-R-Q50-S |
| Switching output | Push-pull |
| Switching element function | Switchable PNP dark switching NPN light switching |
| Max. switching frequency | 1000 Hz |
| Max. output current | 100 mA |
| Voltage drop | 0 V ... 1.5 V |
| Timer function | Via IO-Link® |
| Short circuit current rating | Pulsed |
| Protocol | IO-Link® |
| IO-Link, Protocol version | Device V 1.1 |
| IO-Link, communication mode | COM2 (38.4 kBaud) |
| IO-Link, SIO-Mode support | Yes |

| Feature | Value |
|------------------------------------------------------|---------------------------------------------------------|
| IO-Link, Port class | A |
| IO-Link, Process data length OUT | 2 bit |
| IO-Link, Process data content OUT | 1 bit (emitter disable) 1 bit (Hold) |
| IO-Link, Process data length IN | 2 bit |
| IO-Link, Process data content IN | 1 bit (Stability Alarm) 1 bit SSC (Switching Signal) |
| IO-Link, Min. cycle time | 2.3 ms |
| IO-Link, Data storage required | 2000 Byte |
| Operational voltage range DC | 10 V ... 30 V |
| Residual ripple | 10% |
| No-load supply current | 25 mA |
| Reverse polarity protection | For all electrical connections |
| Electrical connection 1, connection type | Plug |
| Electrical connection 1, connector system | M8x1, A-coded, to EN 61076-2-104 |
| Electrical connection 1, number of connections/cores | 3 |
| Electrical connection 1, type of mounting | Screw-type lock |
| Electrical connection 1, connection pattern | 00991155 |
| Material electrical contact | Gold-plated brass |
| Type of mounting | Via through-hole for M3 screw |
| Tightening torque | 0.8 Nm |
| Mounting position | Any |
| Product weight | 10 g |
| Material housing | Makrolon® PLEXIGLAS® |
| Ready status indication | Green LED |
| Switching status indication | Yellow LED |
| Function reserve indication | Flashing yellow LED |
| Setting options | IO-Link® Poti Teach-in |
| Degree of protection | IP65 IP67 IP69K |
| Insulation voltage | 500 V |
| Immunity to surge | 1 kV |
| Corrosion resistance class CRC | 1 - Low corrosion stress |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Pollution degree | 3 |