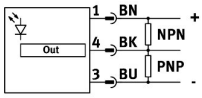
# Retro-reflective sensor
# SOOD-RS-L-PN

Part number: 8075662






## Data sheet

| Feature | Value |
|---|---|
| Design | Block design |
| Conforms to standard | EN 60947-5-2 |
| Approval | RCM trademark<br>c UL us - Recognized (OL) |
| 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 |
| Certificate issuing authority | UL E232949 |
| Note on materials | RoHS-compliant |
| Measuring principle | Optoelectronic |
| Detection method | Retro-reflective sensor |
| Type of light | Laser<br>Red |
| Max. light spot | 35 mm with 2000 mm |
| Operating distance | 0 mm...2000 mm |
| Sensor reflector distance | 100 ... 2000 mm SARA-R-Q50-S<br>150 ... 1800 mm SARA-R-Q50-MC<br>250 ... 600 mm SARA-RF-Q100-S<br>150 ... 2000 mm SARA-RF-Q100-MC<br>200 ... 1500 mm SARA-R-Q20-S<br>150 ... 1500 mm SARA-R-Q20-MC<br>150 ... 1500 mm SARA-R-Q14-M<br>250 ... 1200 mm SARA-R-D20-M |
| Ambient temperature | -20 °C...60 °C |
| Reference material | Reference reflector |
| Switching output | Push-pull |
| Switching element function | PNP, dark switching<br>NPN, light switching |
| Max. switching frequency | 2000 Hz |
| Max. output current | 50 mA |
| Voltage drop | 0 V...1.5 V |
| Short circuit current rating | Pulsed |
| Operational voltage range DC | 10 V...30 V |
| Residual ripple | 10 % |

| Feature | Value |
|---|---|
| No-load supply current | 10 mA |
| Reverse polarity protection | For all electrical connections |
| Electrical connection 1, connection type | Cable with 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, size 9 mm A/F |
| Material electrical contact | Gold-plated brass |
| Cable length | 150 mm |
| Cable characteristic | Standard |
| Material cable sheath | TPE-U(PUR) |
| Type of mounting | With through-hole |
| Tightening torque | 0.5 Nm |
| Mounting position | optional |
| Product weight | 10 g |
| Material housing | ABS<br>PC<br>TPE-U(PU) |
| Ready status indication | Green LED |
| Switching status indication | Yellow LED |
| Function reserve indication | Flashing yellow LED |
| Degree of protection | IP65<br>IP67 |
| Insulation voltage | 500 V |
| Immunity to surge | 1 kV |
| Corrosion resistance class CRC | 1 - Low corrosion stress |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Laser safety class | 1 |
| Pollution degree | 3 |