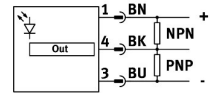


# Retro-reflective sensor SOOD-RS-L-PN

Part number: 8075662

FESTO



## 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  |
| 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 %  |
| 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                              |

| Feature                        | Value                    |
|--------------------------------|--------------------------|
| 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                        |