

Diffuse scan SOOD-BS-R-PN-50

Part number: 8075654

FESTO



 [General operating condition](#)

Data sheet

| Feature | Value |
|--|---|
| Design | Block design |
| Conforms to standard | EN 60947-5-2 |
| Symbol | 00995959 |
| Certification | RCM compliance mark c UL us - recognized (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 | Red LED |
| Max. light spot | 3.5 at a scanning width of 50 mm |
| Minimum object diameter | 3.5 mm |
| Working range | 3 mm ... 50 mm |
| Ambient temperature | -25 °C ... 60 °C |
| Max. black-white difference | 15 % |
| Reference material | Standard white 90%, 100x100 mm |
| Switching output | Push-pull |
| Switching element function | PNP, light-switching NPN, dark-switching |
| Hysteresis | 0.5 mm |
| Max. switching frequency | 800 Hz |
| Max. output current | 50 mA |
| Voltage drop | 0 V ... 1.5 V |
| Short-circuit protection | Pulsed |
| DC operating voltage range | 10 V ... 30 V |
| Residual ripple | 10% |
| Idle current | 10 mA |
| Reverse polarity protection | for all electrical connections |
| Electrical connection 1, connection type | Cable with 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 | Rotatable |
| Electrical connection 1, type of mounting | Compatible with rotatable/non-rotatable screw-type lock |

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|---|--------------------------|
| Electrical connection for input 1, connection pattern | 00991155 |
| Material of pin contacts | Gold-plated brass |
| Cable length | 0.15 m |
| Cable characteristic | Standard |
| Material of cable sheath | TPE-U(PUR) |
| Type of mounting | With through-hole |
| Tightening torque | 0.5 Nm |
| Mounting position | Any |
| Product weight | 10 g |
| Housing material | PC TPE-U(PU) |
| Ready status indication | Green LED |
| Switching status indication | Yellow LED |
| Degree of protection | IP65 IP67 |
| Insulation voltage | 500 V |
| Surge resistance | 1 kV |
| Corrosion resistance class (CRC) | 1 - Low corrosion stress |
| LABS (PWIS) conformity | VDMA24364 Zone III |
| Contamination level | 3 |