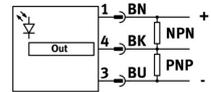


# Diffuse scan SOOD-BS-R-PN-80

Part number: 8075655

FESTO



## Data sheet

| Feature  | Value  |
|--|--|
| Type code                                      | SOOD   |
| Design   | Block design   |
| Conforms to standard                           | EN 60947-5-2   |
| Symbol   | 00995959   |
| Certification                                  | RCM compliance mark<br>c UL us - Recognized (OL)               |
| CE marking (see declaration of conformity)     | As per EU EMC directive<br>As per EU RoHS directive            |
| Certificate issuing authority                  | UL E232949   |
| Note on materials                              | Contains paint-wetting impairment substances<br>RoHS-compliant |
| Measuring principle                            | Optoelectronic   |
| Detection method                               | Reflection light sensor with HGA                               |
| Type of light                                  | Red<br>LED   |
| Max. light spot                                | 5 mm for scan width of 80 mm                                   |
| Minimum object diameter                        | 5 mm   |
| Working range                                  | 15 mm ... 80 mm  |
| Ambient temperature                            | -25 °C ... 60 °C   |
| Max. black-white difference                    | 20 %   |
| Reference material                             | Standard white 90%, 100x100 mm                                 |
| Switching output                               | Push-pull  |
| Switching element function                     | PNP, bright-switching<br>NPN, dark-switching                   |
| Hysteresis                                     | 2.4 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      | Screw-type lock  |

| <b>Feature</b>  | <b>Value</b>             |
|---|--------------------------|
| Electrical connection for input 1, connection pattern | 00991155                 |
| Material of pin contacts                              | Brass, gold-plated       |
| 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                                      | ABS<br>PC<br>TPE-U(PU)   |
| Ready status indication                               | LED green                |
| Switching status indication                           | LED yellow               |
| Degree of protection                                  | IP65<br>IP67             |
| Insulation voltage                                    | 500 V                    |
| Surge resistance                                      | 1 kV                     |
| Corrosion resistance class (CRC)                      | 1 - Low corrosion stress |
| Contamination level                                   | 3                        |