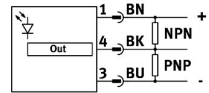


# Diffuse scan SOOD-BS-L-PN-30

Part number: 8075658

FESTO



 General operating condition

## Data sheet

| Feature                                        | Value                                                 |
|------------------------------------------------|-------------------------------------------------------|
| 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   |
| 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                               | Reflection light sensor with HGA                      |
| Type of light                                  | Laser<br>Red                                          |
| Max. light spot                                | 1 mm for scan width of 30 mm                          |
| Minimum object diameter                        | 1 mm                                                  |
| Working range                                  | 7 mm ... 30 mm                                        |
| Ambient temperature                            | -20 °C ... 60 °C                                      |
| Max. black-white difference                    | 8 %                                                   |
| Reference material                             | Standard white 90%, 100x100 mm                        |
| Switching output                               | Push-pull                                             |
| Switching element function                     | PNP, bright-switching<br>NPN, dark-switching          |
| Hysteresis                                     | 0.3 mm                                                |
| Max. switching frequency                       | 2000 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 with AF 9                             |

| Feature                                               | Value                    |
|-------------------------------------------------------|--------------------------|
| 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                                      | 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 |
| LABS (PWIS) conformity                                | VDMA24364 zone III       |
| Laser safety class                                    | 1                        |
| Contamination level                                   | 3                        |