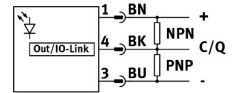


# Diffuse scan SOOE-BS-R-PNLK-T

Part number: 8075664

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                      | Value   |
|--|---|
| Design                                       | Block design  |
| Conforms to standard                         | EN 60947-5-2  |
| Symbol                                       | 00995956  |
| Certification                                | RCM compliance mark<br>c UL us - Listed (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 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<br>LED  |
| Max. light spot                              | 20 mm for scan width of 350 mm  |
| Minimum object diameter                      | 10 mm   |
| Working range                                | 5 mm ... 350 mm   |
| Ambient temperature                          | -40 °C ... 60 °C  |
| Max. black-white difference                  | 15 %  |
| Reference material                           | Standard white 90%, 100x100 mm  |
| Switching output                             | Push-pull   |
| Switching element function                   | Switchable<br>PNP, bright-switching<br>NPN, dark-switching  |
| Hysteresis                                   | 21 mm   |
| Max. switching frequency                     | 500 Hz  |
| Max. output current                          | 100 mA  |
| Voltage drop                                 | 0 V ... 1.5 V   |
| Timer function                               | Via IO-Link®  |
| Short-circuit protection                     | Pulsed  |
| Protocol                                     | IO-Link®  |
| IO-Link®, protocol version                   | Device V 1.1  |
| IO-Link®, profile                            | Smart sensor profile  |
| IO-Link®, function classes                   | Process data variable (PDV)<br>Identification<br>Diagnostics<br>Teach channel<br>Switching signal channel (SSC) |

| Feature   | Value                                   |
|---|---|
| IO-Link®, communication mode                          | COM2 (38,4 kBd)                         |
| IO-Link®, SIO mode support                            | Yes                                     |
| IO-Link®, port class                                  | A                                       |
| IO-Link®, process data width OUT                      | 2 bit                                   |
| IO-Link®, process data content OUT                    | 1 bit (emitter disable)<br>1 bit (hold) |
| IO-Link®, process data width IN                       | 1 bit                                   |
| IO-Link®, process data content IN                     | 1 bit SSC (switching signal)            |
| IO-Link®, minimum cycle time                          | 2.3 ms                                  |
| IO-Link®, data memory required                        | 2000 byte                               |
| DC operating voltage range                            | 10 V ... 30 V                           |
| Residual ripple                                       | 10 %                                    |
| Idle current  | 25 mA                                   |
| Reverse polarity protection                           | for all electrical connections          |
| Electrical connection 1, connection type              | 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                         |
| Electrical connection for input 1, connection pattern | 00991155                                |
| Material of pin contacts                              | Brass, gold-plated                      |
| Type of mounting                                      | With through-hole for M3 screw          |
| Tightening torque                                     | 0.8 Nm                                  |
| Mounting position                                     | Any                                     |
| Product weight  | 10 g                                    |
| Housing material                                      | PC<br>PMMA                              |
| Ready status indication                               | LED green                               |
| Switching status indication                           | LED yellow                              |
| Setting options                                       | IO-Link®<br>Potentiometer<br>Teach-in   |
| Setting range, lower limit                            | 25 mm                                   |
| Setting range, upper limit                            | 350 mm                                  |
| Degree of protection                                  | IP65<br>IP67<br>IP69K                   |
| 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                                       |