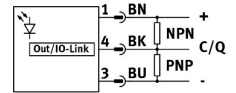


# Diffuse scan SOOE-BS-R-PNLK-T

Part number: 8075664

**FESTO**



## Data sheet

| Feature                                      | Value                                                     |
|----------------------------------------------|-----------------------------------------------------------|
| Design                                       | Block design                                              |
| Conforms to standard                         | EN 60947-5-2                                              |
| 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 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                                | Red<br>LED                                                |
| Max. light spot                              | 20 mm at a sensing range 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, light-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                                      |

| Feature                                        | Value                                                                                                           |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| IO-Link®, function classes                     | Process data variable (PDV)<br>Identification<br>Diagnostics<br>Teach channel<br>Switching signal channel (SSC) |
| 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                 | 2 KB                                                                                                            |
| 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                                                                                                 |
| Material of pin contacts                       | Gold-plated brass                                                                                               |
| 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                        | Green LED                                                                                                       |
| Switching status indication                    | Yellow LED                                                                                                      |
| 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                                                                                                               |