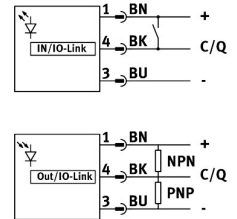


# Light barrier SOOE-TB-R-PNLK-T

Part number: 8075665

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature                                      | Value   |
|--|---|
| Design                                       | Block design  |
| Conforms to standard                         | EN 60947-5-2  |
| Symbol                                       | 00995973  |
| 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                             | Through-beam sensor<br>Transmitter<br>Receiver            |
| Type of light                                | Red<br>LED  |
| Max. light spot                              | 65 mm at 1000 mm  |
| Working range                                | 0 mm ... 12000 mm   |
| Ambient temperature                          | -40 °C ... 60 °C  |
| Switching output                             | Push-pull   |
| Switching element function                   | Switchable<br>PNP, dark-switching<br>NPN, light-switching |
| Max. switching frequency                     | 1000 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®, communication mode                 | COM2 (38,4 kBd)   |
| IO-Link®, SIO mode support                   | Yes   |
| IO-Link®, port class                         | A   |
| IO-Link®, process data width OUT             | 1 bit (emitter)<br>2 bit (receiver)                       |

| Feature   | Value   |
|---|---|
| IO-Link®, process data content OUT                    | 1 bit (emitter disable)<br>1 bit (hold)                 |
| IO-Link®, process data width IN                       | 2 bit (receiver)  |
| IO-Link®, process data content IN                     | 1 bit (stability alarm)<br>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  | 14 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                              | Gold-plated brass                                       |
| Type of mounting                                      | With through-hole for M3 screw                          |
| Tightening torque                                     | 0.8 Nm  |
| Mounting position                                     | Any   |
| Product weight  | 20 g  |
| Housing material                                      | PC<br>PMMA  |
| Ready status indication                               | Green LED   |
| Switching status indication                           | Yellow LED  |
| Function reserve indication                           | Yellow LED, flashing                                    |
| Setting options                                       | IO-Link®<br>Potentiometer<br>Teach-in                   |
| 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   |