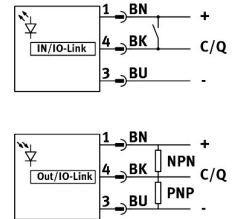


# Light barrier SOOE-TB-R-PNLK-T

Part number: 8075665

**FESTO**



[PDF](#) General operating condition

## Data sheet

| Feature                                      | Value                                                       |
|----------------------------------------------|-------------------------------------------------------------|
| Design                                       | Block design                                                |
| Conforms to standard                         | EN 60947-5-2                                                |
| Symbol                                       | 00995973                                                    |
| Approval                                     | RCM trademark<br>c UL us listed (OL)                        |
| CE mark (see declaration of conformity)      | To EU EMC Directive<br>In accordance with 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                             | Through-beam sensor<br>Transmitter<br>Receiver              |
| Type of light                                | Red<br>LED                                                  |
| Max. light spot                              | 65 mm with 1000 mm                                          |
| Operating distance                           | 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 current rating                 | Pulsed                                                      |
| Protocol                                     | IO-Link®                                                    |
| IO-Link, Protocol version                    | Device V 1.1                                                |
| IO-Link, communication mode                  | COM2 (38.4 kBaud)                                           |
| IO-Link, SIO-Mode support                    | Yes                                                         |
| IO-Link, Port class                          | A                                                           |
| IO-Link, Process data length 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 length IN                      | 2 bit (receiver)                                        |
| IO-Link, Process data content IN                     | 1 bit (stability alarm)<br>1 bit SSC (switching signal) |
| IO-Link, Min. cycle time                             | 2.3 ms                                                  |
| IO-Link, Data storage required                       | 2000 Byte                                               |
| Operational voltage range DC                         | 10 V ... 30 V                                           |
| Residual ripple                                      | 10 %                                                    |
| No-load supply current                               | 14 mA                                                   |
| Reverse polarity protection                          | For all electrical connections                          |
| Electrical connection 1, connection type             | Plugs                                                   |
| Electrical connection 1, connector system            | M8x1, A-coded, to EN 61076-2-104                        |
| Electrical connection 1, number of connections/cores | 3                                                       |
| Electrical connection 1, type of mounting            | Screw-type lock                                         |
| Electrical connection 1, connection pattern          | 00991155                                                |
| Material electrical contact                          | Gold-plated brass                                       |
| Type of mounting                                     | Via through-hole for M3 screw                           |
| Tightening torque                                    | 0.8 Nm                                                  |
| Mounting position                                    | optional                                                |
| Product weight                                       | 20 g                                                    |
| Material housing                                     | PC<br>PMMA                                              |
| Ready status indication                              | Green LED                                               |
| Switching status indication                          | Yellow LED                                              |
| Function reserve indication                          | Flashing yellow LED                                     |
| Setting options                                      | IO-Link®<br>Potentiometer<br>Teach-in                   |
| Degree of protection                                 | IP65<br>IP67<br>IP69K                                   |
| Insulation voltage                                   | 500 V                                                   |
| Immunity to surge                                    | 1 kV                                                    |
| Corrosion resistance class CRC                       | 1 - Low corrosion stress                                |
| LABS (PWIS) conformity                               | VDMA24364 zone III                                      |
| Pollution degree                                     | 3                                                       |