

#### overview

- Extended functional reserve capacities for maximum reliability
- Baumer PinPoint LED: Small, homogeneous light spot with sharp edges
- Long-term stable detection of transparent objects thanks to compensation of environmental influences
- Manipulation-proof, simple teach-in via qTeach or line teach
- IO-Link for extended parameterization options and additional diagnostic data
- Robust housing with stainless steel spacer sleeves



#### Technical data

##### general data

|                                     |                                                     |
|-------------------------------------|-----------------------------------------------------|
| type                                | retro-reflective sensor                             |
| version                             | transparency object detection<br>single lens optics |
| light source                        | pulsed PinPoint LED                                 |
| actual range Sb                     | 0,8 m                                               |
| nominal range Sn                    | 1 m                                                 |
| polarization filter                 | yes                                                 |
| minimal signal attenuation          | 5 %                                                 |
| alignment / soiled lens indicator   | flashing output indicator                           |
| output indicator                    | LED yellow                                          |
| power on indication                 | LED green                                           |
| sensitivity adjustment              | Teach-in and IO-Link                                |
| wave length                         | 644 nm                                              |
| suppression of reciprocal influence | yes                                                 |
| alignment optical axis              | < 1,5°                                              |

##### electrical data

|                                    |                  |
|------------------------------------|------------------|
| response time / release time       | < 0,25 ms        |
| jitter                             | < 0,06 ms        |
| voltage supply range +Vs           | 10 ... 30 VDC    |
| current consumption max. (no load) | 40 mA (@ 10 VDC) |
| current consumption typ.           | 16 mA (@ 24 VDC) |
| voltage drop Vd                    | < 2 VDC          |

##### electrical data

|                             |                      |
|-----------------------------|----------------------|
| output function             | light / dark operate |
| output circuit              | push-pull            |
| output current              | < 50 mA              |
| short circuit protection    | yes                  |
| reverse polarity protection | yes                  |

##### communication interface

|                        |                                                                                                                                                           |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| baud rate              | 230,4 kBaud (COM 3)                                                                                                                                       |
| adjustable parameters  | switching point<br>time filters<br>LED status indicators<br>output logic<br>counter<br>deactivate the sensor element<br>Find Me function<br>Teach-in mode |
| IO-Link port type      | Class A                                                                                                                                                   |
| process data length    | 32 Bit                                                                                                                                                    |
| process data structure | Bit 0 = SSC1 (presence)<br>Bit 2 = quality<br>Bit 3 = alarm<br>Bit 5 = SSC4 (counter)<br>Bit 16-31 = 16 Bit measurement                                   |
| interface              | IO-Link V1.1                                                                                                                                              |
| additional data        | signal strength<br>excess gain<br>operating cycles<br>device temperature                                                                                  |

#### Technical data

##### communication interface

cycle time  $\geq 0,6$  ms

##### mechanical data

width / diameter 8 mm  
height / length 25,1 mm  
depth 15,8 mm  
type rectangular  
mechanical mounting sleeve smooth (stainless steel)

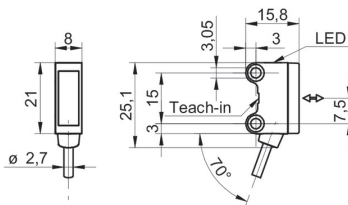
##### mechanical data

housing material plastic (ASA, PMMA)  
front (optics) PMMA  
connection types cable 4 pin, 2 m  
cable characteristics PVC / PVC 4 x 0,08 mm<sup>2</sup>

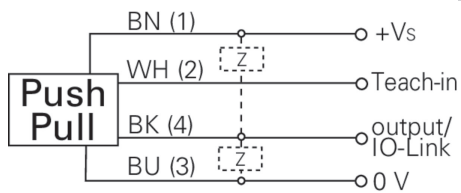
##### ambient conditions

operating temperature -25 ... +50 °C  
protection class IP 67

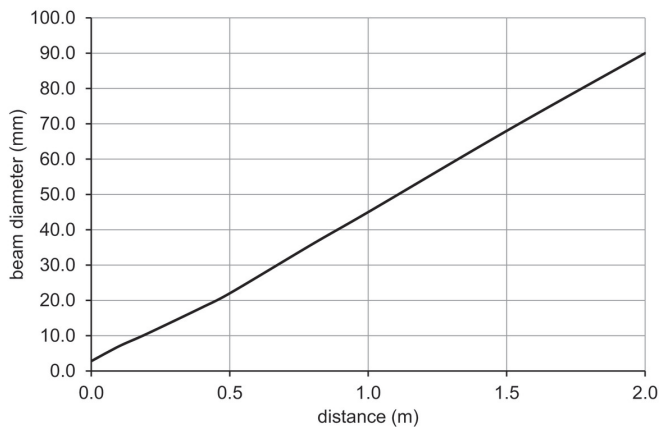
#### dimension drawing



#### connection diagram



#### beam characteristic (typically)



#### excess gain curve

