

## Overview

- Outstanding reliability and unrivalled immunity against ambient light
- Baumer PinPoint LED: Small, homogeneous light spot with sharp edges
- IO-Link interface independent of the switching output (Dual Channel)
- Extended parameterization options and additional diagnostic data
- Quick mounting by means of M3 threaded bushes made of stainless steel



Picture similar



## Technical data

### General data

|                                          |                           |
|------------------------------------------|---------------------------|
| Type                                     | Background suppression    |
| Version                                  | IO-Link dual channel      |
| Sensing distance Tw                      | 20 ... 120 mm             |
| Sensing range Tb                         | 3 ... 132 mm              |
| Power on indication                      | LED green                 |
| Alignment / soiled lens in-<br>indicator | Flashing output indicator |
| Output indicator                         | LED yellow                |
| Sensing distance adjust-<br>ment         | IO-Link                   |
| Suppression of reciprocal<br>influence   | Yes                       |
| Beam type                                | Point                     |
| Alignment optical axis                   | < 1,5°                    |

### Light Source

|              |                     |
|--------------|---------------------|
| Light source | Pulsed PinPoint LED |
| Wave length  | 644 nm              |

### Electrical data

|                                       |                             |
|---------------------------------------|-----------------------------|
| Response time / release<br>time       | < 0.4 ms (High Speed Mode)  |
| Jitter                                | < 0.21 ms (High Speed Mode) |
| Voltage supply range +Vs              | 10 ... 30 VDC               |
| Current consumption max.<br>(no load) | 45 mA (@ 10 VDC)            |
| Current consumption typ.              | 16 mA (@ 24 VDC)            |
| Voltage drop Vd                       | <2 VDC                      |
| Output function                       | Light / dark operate        |
| Output circuit                        | Push-pull                   |
| Output current                        | 50 mA                       |
| Short circuit protection              | Yes                         |

### Electrical data

|                             |     |
|-----------------------------|-----|
| Reverse polarity protection | Yes |
|-----------------------------|-----|

### Communication interface

|                        |                                                                                                                         |
|------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Interface              | IO-Link V1.1                                                                                                            |
| IO-Link port type      | Class A                                                                                                                 |
| Baud rate              | 38,4 kBaud (COM 2)                                                                                                      |
| Cycle time             | ≥ 2.7 ms                                                                                                                |
| 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 |

|                       |                                                                                                                                                                                                                       |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Adjustable parameters | Switching point<br>Switching hysteresis<br>Time filters<br>LED status indicators<br>Output logic<br>Output circuit<br>Counter<br>Operation mode<br>Deactivate the sensor element<br>Find Me function<br>Teach-in mode |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                 |                                                       |
|-----------------|-------------------------------------------------------|
| Additional data | Excess gain<br>Operating cycles<br>Device temperature |
|-----------------|-------------------------------------------------------|

### Mechanical data

|                     |                                       |
|---------------------|---------------------------------------|
| Width / diameter    | 8 mm                                  |
| Height / length     | 25.1 mm                               |
| Depth               | 15.8 mm                               |
| Design              | Rectangular                           |
| Mechanical mounting | Threaded sleeves M3 (stainless steel) |
| Housing material    | Plastic (ASA, PMMA)                   |

#### Technical data

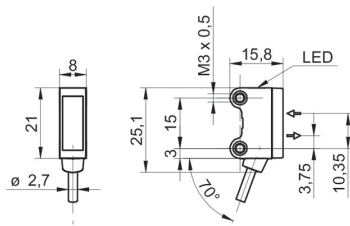
##### Mechanical data

|                       |                                    |
|-----------------------|------------------------------------|
| Front (optics)        | PMMA                               |
| Connection types      | Cable 4 pin, 2 m                   |
| Cable characteristics | PVC / PVC 4 x 0.08 mm <sup>2</sup> |

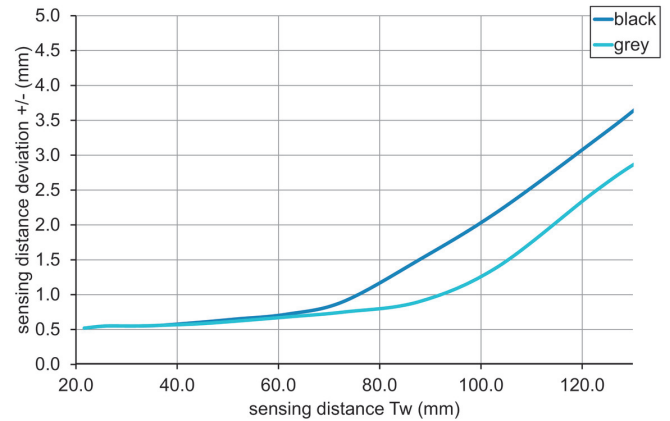
##### Ambient conditions

|                       |                |
|-----------------------|----------------|
| Protection class      | IP 67          |
| Operating temperature | -25 ... +50 °C |

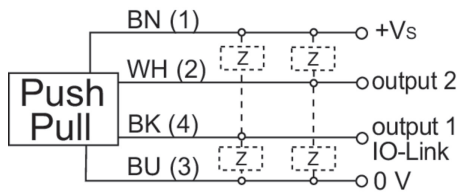
#### Dimension drawing



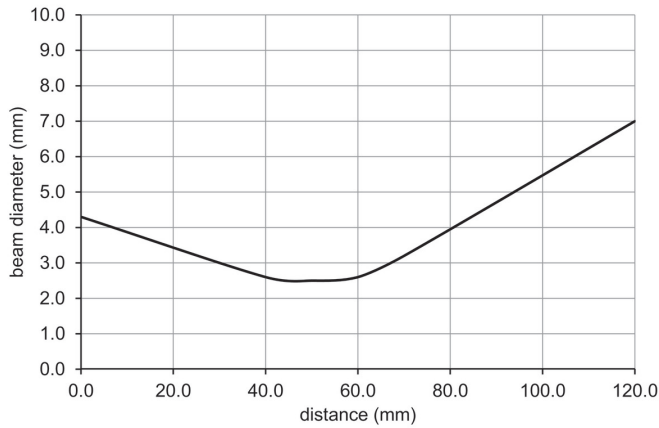
#### Sensing distance diagram



#### Connection diagram



#### Beam characteristic (typically)



#### Hysteresis curve

