

## Overview

- SmartReflect - Safe barrier principle without reflector
- 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



Picture similar



## Technical data

| General data                        |                               | Electrical data                |                                                                                                                                                                                                                            |
|-------------------------------------|-------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type                                | Light barrier                 | Voltage drop Vd                | < 2 VDC                                                                                                                                                                                                                    |
| Version                             | Transparency object detection | Output function                | Light / dark operate                                                                                                                                                                                                       |
| Light source                        | Pulsed PinPoint LED           | Output circuit                 | Push-pull                                                                                                                                                                                                                  |
| Background position Sde             | 15 ... 180 mm                 | Output current                 | < 50 mA                                                                                                                                                                                                                    |
| Scanning range Sa                   | 90% ... 85% Sde               | Short circuit protection       | Yes                                                                                                                                                                                                                        |
| Minimal signal attenuation          | 5 %                           | Reverse polarity protection    | Yes                                                                                                                                                                                                                        |
| Alignment / soiled lens indicator   | Flashing output indicator     | <b>Communication interface</b> |                                                                                                                                                                                                                            |
| Power on indication                 | LED green                     | Baud rate                      | 230,4 kBaud (COM 3)                                                                                                                                                                                                        |
| Output indicator                    | LED yellow                    | Adjustable parameters          | Switching point<br>Switching hysteresis<br>Time filters<br>LED status indicators<br>Output logic<br>Counter<br>Operation mode<br>Deactivate the sensor element<br>Find Me function<br>Teach-in mode<br>Background tracking |
| Sensing distance adjustment         | Teach-in and IO-Link          | IO-Link port type              | Class A                                                                                                                                                                                                                    |
| Wave length                         | 644 nm                        | Process data length            | 32 Bit                                                                                                                                                                                                                     |
| Suppression of reciprocal influence | Yes                           | 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                                                                                                    |
| Beam type                           | Point                         | Interface                      | IO-Link V1.1                                                                                                                                                                                                               |
| Alignment optical axis              | < 1,5°                        |                                |                                                                                                                                                                                                                            |
| Electrical data                     |                               |                                |                                                                                                                                                                                                                            |
| Response time / release time        | < 0,25 ms (High Speed Mode)   |                                |                                                                                                                                                                                                                            |
| Jitter                              | < 0,1 ms (High Speed Mode)    |                                |                                                                                                                                                                                                                            |
| Voltage supply range +Vs            | 10 ... 30 VDC                 |                                |                                                                                                                                                                                                                            |
| Current consumption max. (no load)  | 40 mA (@ 10 VDC)              |                                |                                                                                                                                                                                                                            |
| Current consumption typ.            | 16 mA (@ 24 VDC)              |                                |                                                                                                                                                                                                                            |

# O200.SP.T-GW1J.72NV

SmartReflect Light barriers - miniature

Article number: 11223790

## Technical data

### Communication interface

|                 |                    |
|-----------------|--------------------|
| Additional data | Signal attenuation |
|                 | Excess gain        |
|                 | Operating cycles   |
|                 | Device temperature |
| Cycle time      | ≥ 0,6 ms           |

### Mechanical data

|                  |             |
|------------------|-------------|
| Width / diameter | 8 mm        |
| Height / length  | 25,1 mm     |
| Depth            | 15,8 mm     |
| Type             | Rectangular |

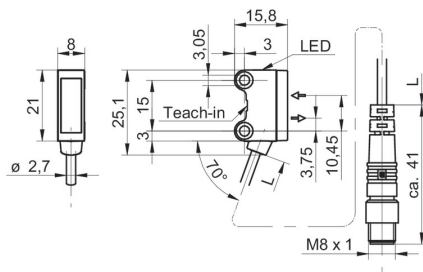
### Mechanical data

|                       |                                      |
|-----------------------|--------------------------------------|
| Mechanical mounting   | Sleeve smooth (stainless steel)      |
| Housing material      | Plastic (ASA, PMMA)                  |
| Front (optics)        | PMMA                                 |
| Connection types      | Flylead connector M8 4 pin, L=200 mm |
| Cable characteristics | PVC / PVC 4 x 0,08 mm <sup>2</sup>   |

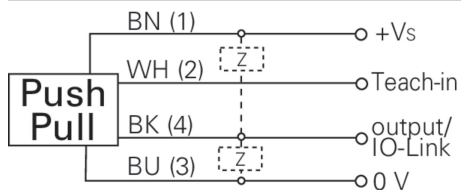
### Ambient conditions

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

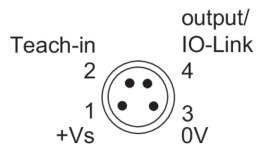
## Dimension drawing



## Connection diagram



## Pin assignment



## Beam characteristic (typically)

