

**Overview**

- Outstanding reliability and unrivalled immunity against ambient light
- Baumer PinPoint LED: Small, homogeneous light spot with sharp edges
- Line beam for complete detection of irregular, perforated objects
- 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                                | Background suppression      | Current consumption typ.    | 16 mA (@ 24 VDC)  |
| Version                             | Line beam                   | Voltage drop Vd             | < 2 VDC   |
| Light source                        | Pulsed PinPoint LED         | Output function             | Light / dark operate  |
| Sensing distance Tw                 | 20 ... 120 mm               | Output circuit              | Push-pull   |
| Sensing range Tb                    | 3 ... 132 mm                | Output current              | < 50 mA   |
| Smallest object recognizable typ.   | 8 mm at 60 mm               | Short circuit protection    | Yes   |
| Alignment / soiled lens indicator   | Flashing output indicator   | Reverse polarity protection | Yes   |
| Power on indication                 | LED green                   | Communication interface     |   |
| Output indicator                    | LED yellow                  | Baud rate                   | 230,4 kBaud (COM 3)   |
| Sensing distance adjustment         | Teach-in and IO-Link        | 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 |
| Wave length                         | 644 nm                      | IO-Link port type           | Class A   |
| Suppression of reciprocal influence | Yes                         | Process data length         | 32 Bit  |
| Beam type                           | Line                        | 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   |
| Alignment optical axis              | < 1,5°                      | Interface                   | IO-Link V1.1  |
| Electrical data                     |                             |                             |   |
| Response time / release time        | < 0,25 ms (High Speed Mode) |                             |   |
| Jitter                              | < 0,06 ms (High Speed Mode) |                             |   |
| Voltage supply range +Vs            | 10 ... 30 VDC               |                             |   |
| Current consumption max. (no load)  | 40 mA (@ 10 VDC)            |                             |   |

# O200.GP-GW1J.72NV/E022

Diffuse sensors with background suppression - miniature

Article number: 11223791

## Technical data

### Communication interface

|                 |                    |
|-----------------|--------------------|
| Additional data | 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 |

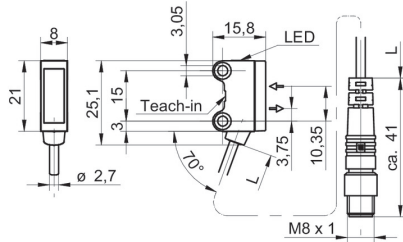
### Mechanical data

|                       |                                      |
|-----------------------|--------------------------------------|
| 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>   |

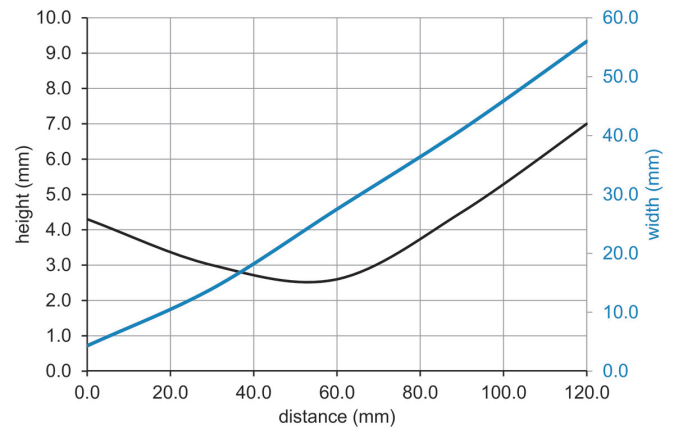
### Ambient conditions

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

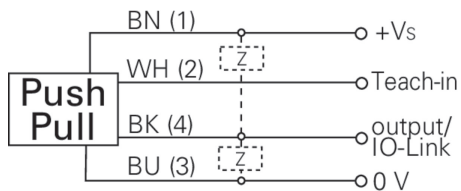
## Dimension drawing



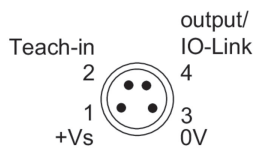
## Beam characteristic (typically)



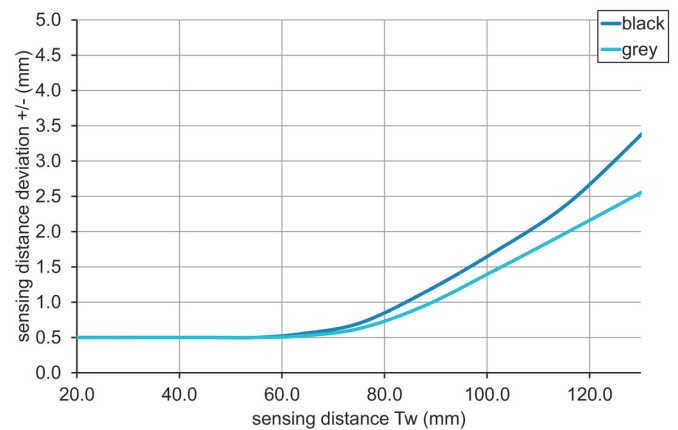
## Connection diagram



## Pin assignment



## Sensing distance diagram



**Hysteresis curve**

