

## O200.GP-GW1J.72CV

Diffuse sensors with background suppression - miniature

Article number: 11210521

### Overview

- Outstanding reliability and unrivalled immunity against ambient light
- Baumer PinPoint LED: Small, homogeneous light spot with sharp edges
- 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

|                                     |                           |
|-------------------------------------|---------------------------|
| Type                                | Background suppression    |
| Sensing distance Tw                 | 20 ... 120 mm             |
| Sensing range Tb                    | 3 ... 132 mm              |
| Smallest object recognizable typ.   | 0.25 mm at 40 mm          |
| Power on indication                 | LED green                 |
| Alignment / soiled lens indicator   | Flashing output indicator |
| Output indicator                    | LED yellow                |
| Sensing distance adjustment         | Teach-in and IO-Link      |
| Suppression of reciprocal influence | Yes                       |
| Alignment optical axis              | < 1,5°                    |

#### Light Source

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

#### Electrical data

|                                    |                             |
|------------------------------------|-----------------------------|
| Response time / release time       | < 0.25 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)            |
| 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

|                        |   |
|------------------------|---|
| Interface              | IO-Link V1.1  |
| IO-Link port type      | Class A   |
| Baud rate              | 230,4 kBaud (COM 3)   |
| Cycle time             | ≥ 0.6 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               |
| Switching hysteresis          |
| Time filters                  |
| LED status indicators         |
| Output logic                  |
| Counter                       |
| Operation mode                |
| Deactivate the sensor element |
| Find Me function              |
| Teach-in mode                 |

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## Technical data

### Communication interface

|                 |                    |
|-----------------|--------------------|
| Additional data | Excess gain        |
|                 | Operating cycles   |
|                 | Device temperature |

### Mechanical data

|                     |                                 |
|---------------------|---------------------------------|
| Width / diameter    | 8 mm                            |
| Height / length     | 25.1 mm                         |
| Depth               | 15.8 mm                         |
| Design              | 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> |

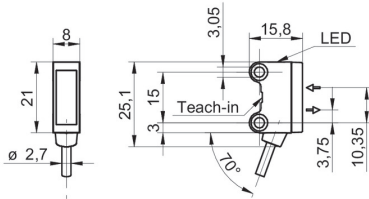
### Ambient conditions

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

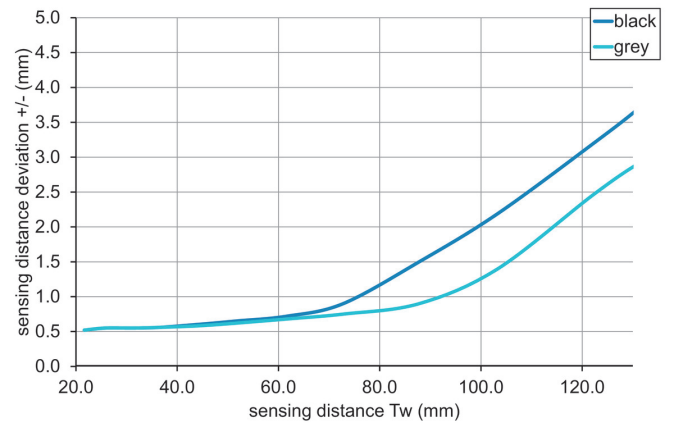
## Remarks

- qTeach

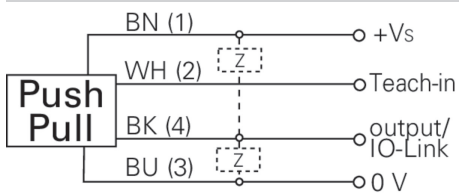
## Dimension drawing



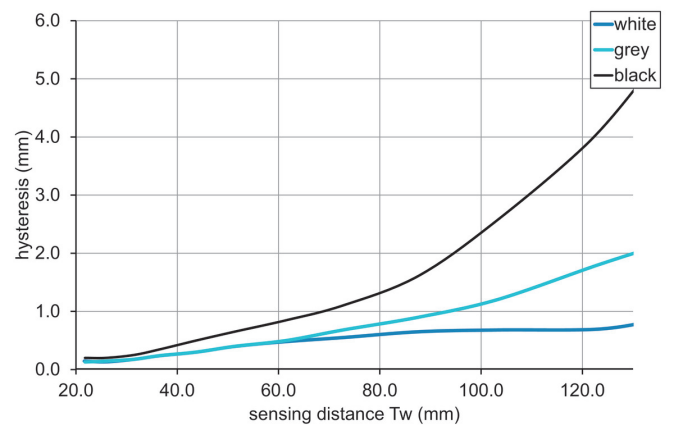
## Sensing distance diagram



## Connection diagram



## Hysteresis curve



## Beam characteristic (typically)

