

## O200.GR-GD1E.72CV/T007

Diffuse sensors with background suppression - miniature

Article number: 11210574

### Overview

- Outstanding reliability and unrivalled immunity against ambient light
- Easy to adjust via line teach
- Intuitive Xpress Teach / 1-Step Teach method
- Robust housing with stainless steel spacer sleeves



Picture similar



### Technical data

#### General data

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Type                                | Background suppression              |
| Sensing distance Tw                 | 15 ... 80 mm                        |
| Sensing range Tb                    | 7 ... 80 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         | External Teach-in / 1-Step Teach-in |
| Suppression of reciprocal influence | Yes                                 |
| Alignment optical axis              | < 1,5°                              |

#### Light Source

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

#### Electrical data

|                                    |                  |
|------------------------------------|------------------|
| Response time / release time       | < 1 ms           |
| Voltage supply range +Vs           | 10 ... 30 VDC    |
| Current consumption max. (no load) | 20 mA (@ 30 VDC) |

#### Electrical data

|                             |                  |
|-----------------------------|------------------|
| Current consumption typ.    | 16 mA (@ 24 VDC) |
| Voltage drop Vd             | <2 VDC           |
| Output function             | Dark operate     |
| Output circuit              | Push-pull        |
| Output current              | 50 mA            |
| Short circuit protection    | Yes              |
| Reverse polarity protection | Yes              |

#### Mechanical data

|                       |                                    |
|-----------------------|------------------------------------|
| Width / diameter      | 8 mm                               |
| Height / length       | 25.1 mm                            |
| Depth                 | 14.1 mm                            |
| Design                | Rectangular                        |
| Mechanical mounting   | Sleeve smooth (stainless steel)    |
| 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

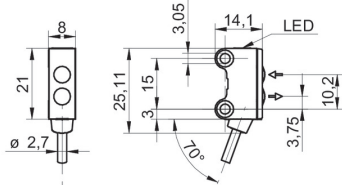
|                       |                |
|-----------------------|----------------|
| Protection class      | IP 67          |
| Operating temperature | -25 ... +50 °C |

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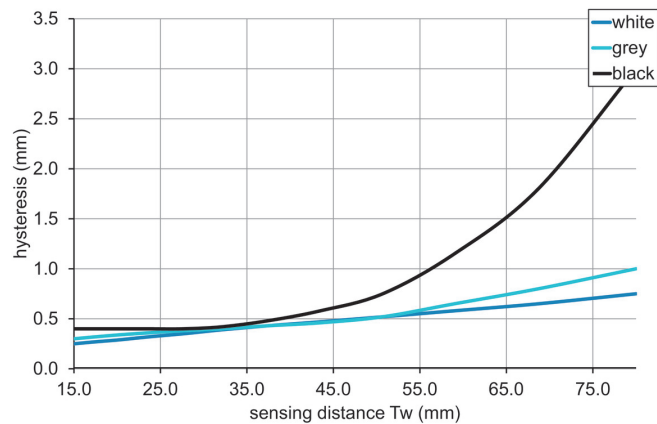
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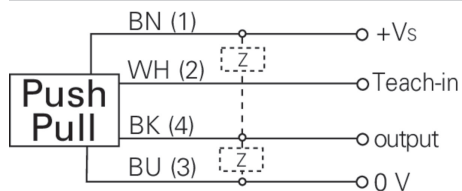
### Dimension drawing



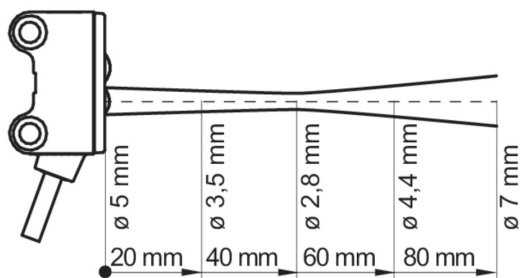
### Hysteresis curve



### Connection diagram



### Beam characteristic (typically)



### Sensing distance diagram

