## O200.GL-GW1J.72CV/E022\_F060\_H006

Diffuse sensors with background suppression - miniature

Article number: 11230774

#### Overview

- Outstanding reliability and unrivalled immunity against ambient light
- Line beam for complete detection of irregular, perforated objects
- Precise detection thanks to laser light source
- Manipulation-proof, simple teach-in via qTeach or line teach
- IO-Link for extended parameterization options and additional diagnostic data
- Quick mounting by means of M3 threaded bushes made of stainless



Picture similar







| Technical data                         |                             |
|--|-----------------------------|
| General data                           |                             |
| Туре                                   | Background suppression      |
| Version                                | Line beam                   |
| Sensing distance Tw                    | 20 120 mm                   |
| Sensing range Tb                       | 3 122 mm                    |
| Smallest object recognizable typ.      | 8 mm at 60 mm               |
| Power on indication                    | LED green                   |
| Alignment / soiled lens in-<br>dicator | Flashing output indicator   |
| Output indicator                       | LED yellow                  |
| Sensing distance adjust-<br>ment       | Teach-in and IO-Link        |
| Distance to focus                      | 60 mm                       |
| Suppression of reciprocal influence    | Yes                         |
| Beam type                              | Line                        |
| Alignment optical axis                 | < 1,5°                      |
| Light Source                           |                             |
| Light source                           | Pulsed red laser diode      |
| Laser class                            | 1                           |
| Wave length                            | 680 nm                      |
| Electrical data                        |                             |
| Response time / release time           | ≤ 0.25 ms (High Speed Mode) |
| Jitter                                 | ≤ 0.06 ms (High Speed Mode) |

| Electrical data                    |   |
|------------------------------------|---|
| Voltage supply range +Vs           | 10 30 VDC   |
| Current consumption max. (no load) | 20 mA (@ 10 VDC)  |
| Current consumption typ.           | 10 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   |
| 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) Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 16-31 = 16 Bit measurement |



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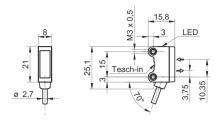
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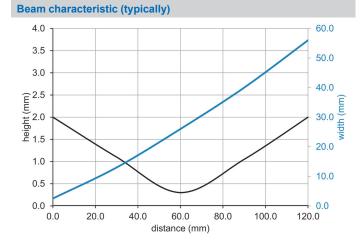
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| Technical data          |  |
|-------------------------|--|
| Communication interface |  |
| Adjustable parameters   | Switching point Switching hysteresis Time filters LED status indicators Output logic Counter Operation mode Deactivate the sensor element Find Me function Teach-in mode |
| Additional data         | Excess gain Operating cycles Device temperature  |
| Mechanical data         |  |
| Width / diameter        | 8 mm   |

| Mechanical data       |                                       |
|-----------------------|---------------------------------------|
| Height / length       | 25.1 mm                               |
| Depth                 | 15.8 mm                               |
| Design                | Rectangular                           |
| Mechanical mounting   | Threaded sleeves M3 (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 | -20 +50 °C                            |

#### **Dimension drawing**



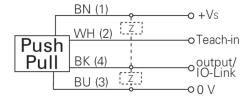


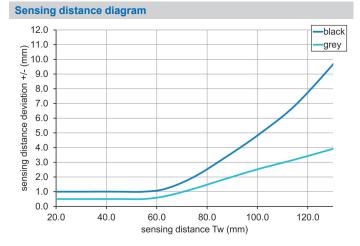
#### Laser warning

# CLASS 1 LASER PRODUCT

IEC 60825-1/2014
Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019

#### **Connection diagram**





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