O200.GL-GW1J.72CV/F160_H006_B005

Diffuse sensors with background suppression - miniature

Article number: 11230967

Overview

- Outstanding reliability and unrivalled immunity against ambient light
- Extra range best-in-class
- Manipulation-proof, simple teach-in via qTeach or line teach
- IO-Link for extended parameterization options and additional dia-
- Quick mounting by means of M3 threaded bushes made of stainless



Picture similar







| Technical data | |
|-------------------------------------|-----------------------------|
| General data | |
| Туре | Background suppression |
| Sensing distance Tw | 20 175 mm |
| Sensing range Tb | 3 192 mm |
| Smallest object recognizable typ. | 0.5 mm at 100 mm |
| Power on indication | LED green |
| Alignment / soiled lens indicator | Flashing output indicator |
| Output indicator | LED yellow |
| Sensing distance adjust- ment | Teach-in and IO-Link |
| Distance to focus | 160 mm |
| Suppression of reciprocal influence | Yes |
| Beam type | Point |
| 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) |
| Voltage supply range +Vs | 10 30 VDC |

| Electrical data | |
|------------------------------------|---|
| 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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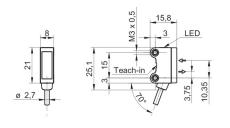
Diffuse sensors with background suppression - miniature

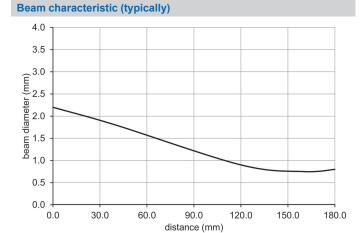
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| Technical data | |
|-------------------------|--|
| Communication interface | |
| Adjustable parameters | Switching point Switching hysteresis Time filters LED status indicators Output logic Counter Operation mode Deactivate the sensor element Find 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 ² |
| Ambient conditions | |
| Protection class | IP 67 |
| Operating temperature | -20 +50 °C |

Dimension drawing



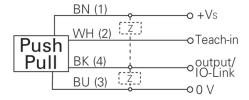


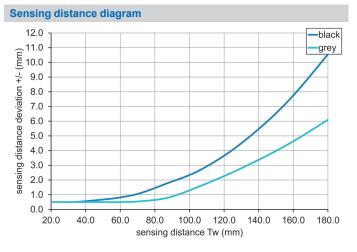
Laser warning

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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