Through beam sensors

# O200.ER-GW1J.72CV/E026_H006

Article number: 11230904

## overview

- Most secure object detection due to the barrier principle
- 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 steel

## Technical data

### general data

| | |
|---|---|
| type | through beam sensor |
| emitter / receiver | receiver |
| light source | use with pulsed red LED |
| actual range Sb | 5 m |
| nominal range Sn | 6 m |
| smallest object recognizable typ. | 5 mm (0,5 mm with aperture) |
| alignment / soiled lens indicator | flashing output indicator |
| output indicator | LED yellow |
| power on indication | LED green |
| sensitivity adjustment | Teach-in and IO-Link |
| suppression of reciprocal influence | yes |

### electrical data

| | |
|---|---|
| response time / release time | < 0,5 ms |
| jitter | < 0,15 ms |
| voltage supply range +Vs | 10 … 30 VDC |
| current consumption max. (no load) | 20 mA (@ 10 VDC) |
| current consumption typ. | 16 mA (@ 24 VDC) |
| voltage drop Vd | < 2 VDC |
| output function | light / dark operate |
| output circuit | push-pull |
| output current | < 50 mA |

### electrical data

| | |
|---|---|
| short circuit protection | yes |
| reverse polarity protection | yes |

### communication interface

| | |
|---|---|
| baud rate | 230,4 kBaud (COM 3) |
| adjustable parameters | switching point<br>time filters<br>LED status indicators<br>output logic<br>counter<br>deactivate the sensor element<br>Find Me function<br>Teach-in mode |
| IO-Link port type | Class A |
| 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 |
| interface | IO-Link V1.1 |
| additional data | signal strength<br>excess gain<br>operating cycles<br>device temperature |
| cycle time | ≥ 0,6 ms |

### mechanical data

| | |
|---|---|
| width / diameter | 8 mm |

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**mechanical data**

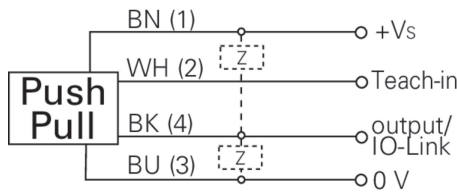| | |
|---|---|
| height / length | 25,1 mm |
| depth | 14,1 mm |
| type | rectangular |
| mechanical mounting | threaded sleeves M3 (stainless steel) |
| housing material | plastic (ASA, PMMA) |
| front (optics) | PMMA |

**mechanical data**

| | |
|---|---|
| connection types | cable 4 pin, 2 m |
| cable characteristics | PVC / PVC 4 x 0,08 mm² |
| **ambient conditions** | |
| operating temperature | -25 … +50 °C |
| protection class | IP 67 |

## dimension drawing
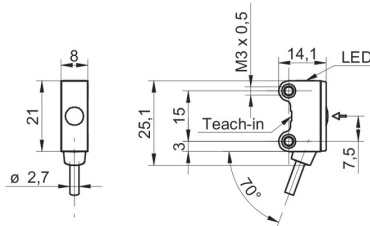


## connection diagram



## excess gain curve