

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
- Robust housing with stainless steel spacer sleeves



Picture similar



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 |

Electrical data

| | |
|-----------------------------|---------|
| Output current | < 50 mA |
| Short circuit protection | Yes |
| Reverse polarity protection | Yes |

Communication interface

| | |
|------------------------|---|
| Baud rate | 230,4 kBaud (COM 3) |
| Adjustable parameters | Switching point Time filters LED status indicators Output logic Counter Deactivate the sensor element Find Me function Teach-in mode |
| IO-Link port type | Class A |
| 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 |
| Interface | IO-Link V1.1 |
| Additional data | Signal strength Excess gain Operating cycles Device temperature |
| Cycle time | ≥ 0,6 ms |

Technical data

Mechanical data

| | |
|---------------------|---------------------------------|
| Width / diameter | 8 mm |
| Height / length | 25,1 mm |
| Depth | 14,1 mm |
| Type | Rectangular |
| Mechanical mounting | Sleeve smooth (stainless steel) |
| Housing material | Plastic (ASA, PMMA) |

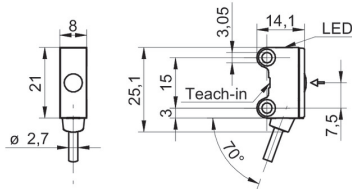
Mechanical data

| | |
|-----------------------|------------------------------------|
| Front (optics) | PMMA |
| Connection types | Cable 4 pin, 2 m |
| Cable characteristics | PVC / PVC 4 x 0,08 mm ² |

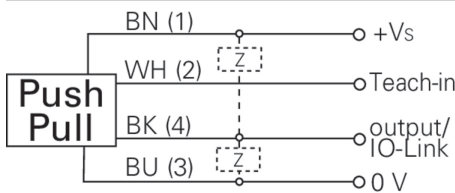
Ambient conditions

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

Dimension drawing



Connection diagram



Excess gain curve

