

Overview

- Reliable intensity-based object detection
- qTeach - tamper-proof, simple teach-in with ferromagnetic tool
- Quick mounting by means of M3 threaded bushes made of stainless steel



Picture similar



Technical data

General data

| | |
|-------------------------------------|---------------------------|
| Type | Intensity difference |
| Sensing distance Tw | 20 ... 200 mm |
| Smallest object recognizable typ. | 2 mm at 100 mm |
| Power on indication | LED green |
| Alignment / soiled lens indicator | Flashing output indicator |
| Output indicator | LED yellow |
| Sensing distance adjustment | qTeach |
| Suppression of reciprocal influence | Yes |
| Beam type | Point |
| Alignment optical axis | < 1,5° |

Light Source

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

Electrical data

| | |
|------------------------------|---------------|
| Response time / release time | < 0.25 ms |
| Jitter | < 0.06 ms |
| Voltage supply range +Vs | 10 ... 30 VDC |

Electrical data

| | |
|------------------------------------|----------------------|
| Current consumption max. (no load) | 40 mA (@ 10 VDC) |
| Current consumption typ. | 16 mA (@ 24 VDC) |
| Voltage drop Vd | <2 VDC |
| Output function | Light / dark operate |
| Output circuit | NPN complementary |
| Output current | 50 mA |
| Short circuit protection | Yes |
| Reverse polarity protection | Yes |

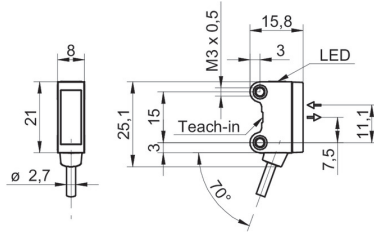
Mechanical data

| | |
|-----------------------|---------------------------------------|
| Width / diameter | 8 mm |
| 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 |

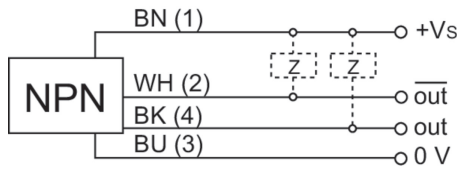
Ambient conditions

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

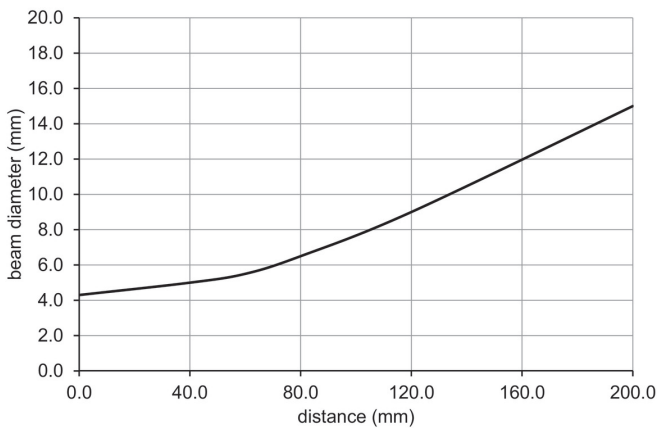
Dimension drawing



Connection diagram



Beam characteristic (typically)



Relative receiving signal

