

Overview

- SmartReflect - Safe barrier principle without reflector
- Long-term stable detection of transparent objects thanks to compensation of environmental influences
- 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 | Light barrier |
| Version | Transparency object detection |
| Light source | Pulsed red laser diode |
| Background position Sde | 25 ... 180 mm |
| Scanning range Sa | 90% ... 85% Sde |
| Minimal signal attenuation | 10 % |
| Alignment / soiled lens indicator | Flashing output indicator |
| Power on indication | LED green |
| Output indicator | LED yellow |
| Sensing distance adjustment | qTeach |
| Laser class | 1 |
| Distance to focus | 160 mm |
| Wave length | 680 nm |
| Suppression of reciprocal influence | Yes |
| Beam type | Point |
| Alignment optical axis | < 1,5° |

Electrical data

| | |
|------------------------------------|------------------|
| Voltage supply range +Vs | 10 ... 30 VDC |
| Current consumption max. (no load) | 20 mA (@ 10 VDC) |

Electrical data

| | |
|-----------------------------|----------------------|
| Current consumption typ. | 10 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 |

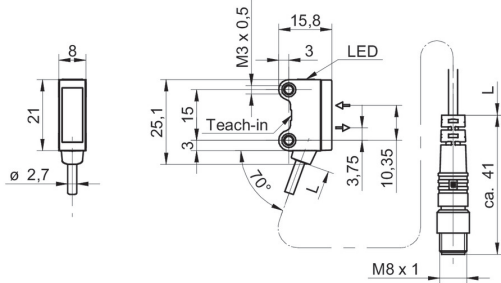
Mechanical data

| | |
|-----------------------|---------------------------------------|
| Width / diameter | 8 mm |
| Height / length | 25,1 mm |
| Depth | 15,8 mm |
| Type | Rectangular |
| Mechanical mounting | Threaded sleeves M3 (stainless steel) |
| Housing material | Plastic (ASA, PMMA) |
| Front (optics) | PMMA |
| Connection types | Flylead connector M8 4 pin, L=200 mm |
| Cable characteristics | PVC / PVC 4 x 0,08 mm ² |

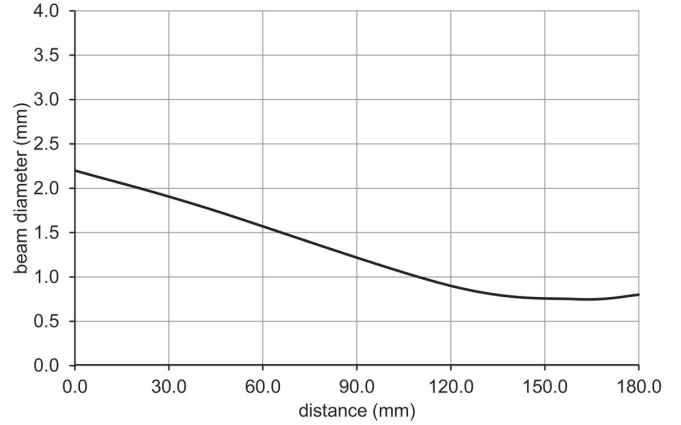
Ambient conditions

| | |
|-----------------------|----------------|
| Protection class | IP 67 |
| Operating temperature | -20 ... +50 °C |

Dimension drawing



Beam characteristic (typically)



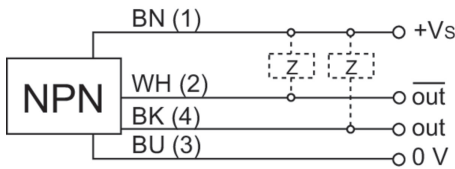
Laser warning

**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



Pin assignment

