

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



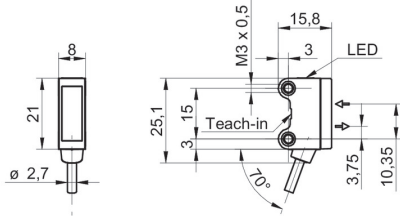
Picture similar



Technical data

General data		Electrical data	
Type	Light barrier	Current consumption typ.	10 mA (@ 24 VDC)
Version	Transparency object detection	Voltage drop Vd	< 2 VDC
Light source	Pulsed red laser diode	Output function	Light / dark operate
Background position Sde	25 ... 180 mm	Output circuit	NPN complementary
Scanning range Sa	90% ... 85% Sde	Output current	< 50 mA
Minimal signal attenuation	10 %	Short circuit protection	Yes
Alignment / soiled lens indicator	Flashing output indicator	Reverse polarity protection	Yes
Power on indication	LED green	Mechanical data	
Output indicator	LED yellow	Width / diameter	8 mm
Sensing distance adjustment	qTeach	Height / length	25,1 mm
Laser class	1	Depth	15,8 mm
Distance to focus	160 mm	Type	Rectangular
Wave length	680 nm	Mechanical mounting	Threaded sleeves M3 (stainless steel)
Suppression of reciprocal influence	Yes	Housing material	Plastic (ASA, PMMA)
Beam type	Point	Front (optics)	PMMA
Alignment optical axis	< 1,5°	Connection types	Cable 4 pin, 2 m
Electrical data		Cable characteristics	PVC / PVC 4 x 0,08 mm ²
Voltage supply range +Vs	10 ... 30 VDC	Ambient conditions	
Current consumption max. (no load)	20 mA (@ 10 VDC)	Protection class	IP 67
		Operating temperature	-20 ... +50 °C

Dimension drawing



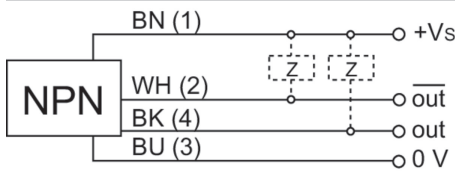
Laser warning

**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



Beam characteristic (typically)

