

**Overview**

- SmartReflect - Safe barrier principle without reflector
- qTeach - tamper-proof, simple teach-in with ferromagnetic tool
- Quick mounting by means of M3 threaded bushes made of stainless steel



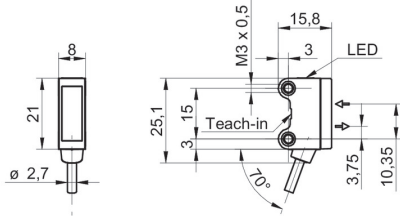
Picture similar



**Technical data**

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

**Dimension drawing**



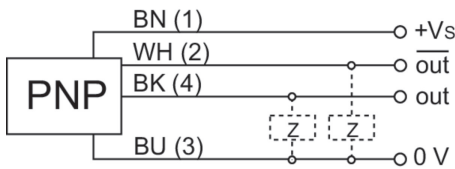
**Laser warning**

**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)**

