

**Overview**

- Extended functional reserve capacities for maximum reliability
- Long-term stable detection of transparent objects thanks to compensation of environmental influences
- Parallel laser beam for uniform detection over the measuring range
- Manipulation-proof, simple teach-in via qTeach or line teach
- IO-Link for extended parameterization options and additional diagnostic data
- Quick mounting by means of M3 threaded bushes made of stainless steel



Picture similar



**Technical data**

General data		Electrical data	
Type	Retro-reflective sensor	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
Actual range Sb	0,8 m	Output circuit	Push-pull
Nominal range Sn	1,2 m	Output current	< 50 mA
Polarization filter	Yes	Short circuit protection	Yes
Minimal signal attenuation	5 %	Reverse polarity protection	Yes
Alignment / soiled lens indicator	Flashing output indicator	Communication interface	
Output indicator	LED yellow	Baud rate	230,4 kBaud (COM 3)
Power on indication	LED green	Adjustable parameters	Switching point Switching hysteresis Time filters LED status indicators Output logic Counter Deactivate the sensor element Find Me function Teach-in mode Background tracking
Sensitivity adjustment	Teach-in and IO-Link	IO-Link port type	Class A
Laser class	1	Process data length	32 Bit
Distance to focus	Parallel beam	Process data structure	Bit 0 = SSC1 (presence) Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 16-31 = 16 Bit measurement
Wave length	680 nm	Interface	IO-Link V1.1
Suppression of reciprocal influence	Yes		
Alignment optical axis	< 1,5°		
Electrical data			
Response time / release time	< 0,25 ms		
Jitter	< 0,06 ms		
Voltage supply range +Vs	10 ... 30 VDC		
Current consumption max. (no load)	20 mA (@ 10 VDC)		

The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.

**Technical data**

**Communication interface**

Additional data	Signal attenuation
	Excess gain
	Operating cycles
	Device temperature
Cycle time	≥ 0,6 ms

**Mechanical data**

Width / diameter	8 mm
Height / length	25,1 mm
Depth	15,8 mm
Type	Rectangular

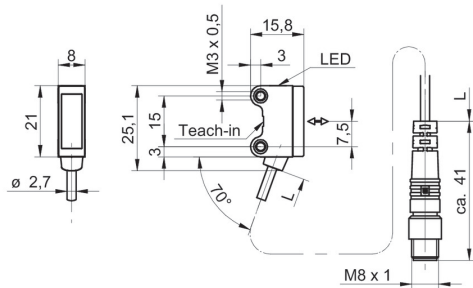
**Mechanical data**

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 <sup>2</sup>

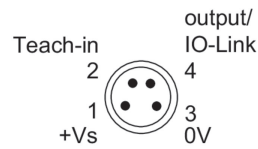
**Ambient conditions**

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

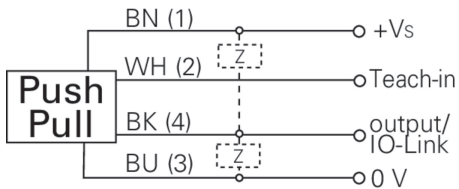
**Dimension drawing**



**Pin assignment**



**Connection diagram**

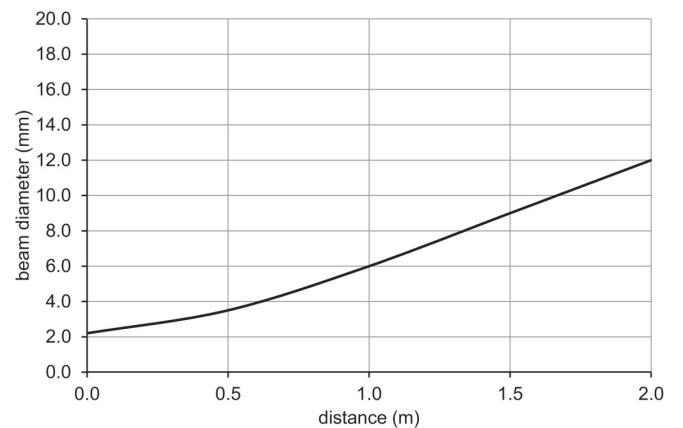


**Laser warning**

**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

**Beam characteristic (typically)**



**Excess gain curve**

