

**Overview**

- Reliable intensity-based object detection
- 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	Intensity difference	Output function	Light / dark operate
Light source	Pulsed red LED	Output circuit	Push-pull
Sensing distance Tw	20 ... 200 mm	Output current	< 50 mA
Smallest object recognizable typ.	2 mm at 100 mm	Short circuit protection	Yes
Alignment / soiled lens indicator	Flashing output indicator	Reverse polarity protection	Yes
Power on indication	LED green	Communication interface	
Output indicator	LED yellow	Baud rate	230,4 kBaud (COM 3)
Sensing distance adjustment	Teach-in and IO-Link	Adjustable parameters	Switching point Time filters LED status indicators Output logic Counter Deactivate the sensor element Find Me function Teach-in mode
Wave length	644 nm	IO-Link port type	Class A
Suppression of reciprocal influence	Yes	Process data length	32 Bit
Beam type	Point	Process data structure	Bit 0 = SSC1 (presence) Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 16-31 = 16 Bit measurement
Electrical data		Interface	IO-Link V1.1
Response time / release time	< 0,25 ms	Additional data	Signal strength Excess gain Operating cycles Device temperature
Jitter	< 0,06 ms		
Voltage supply range +Vs	10 ... 30 VDC		
Current consumption max. (no load)	40 mA (@ 10 VDC)		
Current consumption typ.	16 mA (@ 24 VDC)		
Voltage drop Vd	< 2 VDC		

2021-05-06 The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.

**Technical data**

**Communication interface**

Cycle time ≥ 0,6 ms

**Mechanical data**

Width / diameter 8 mm  
 Height / length 25,1 mm  
 Depth 15,8 mm  
 Type Rectangular  
 Mechanical mounting Threaded sleeves M3 (stainless steel)

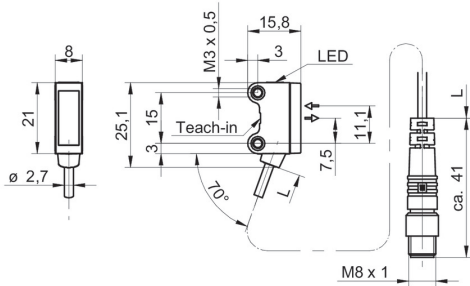
**Mechanical data**

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>

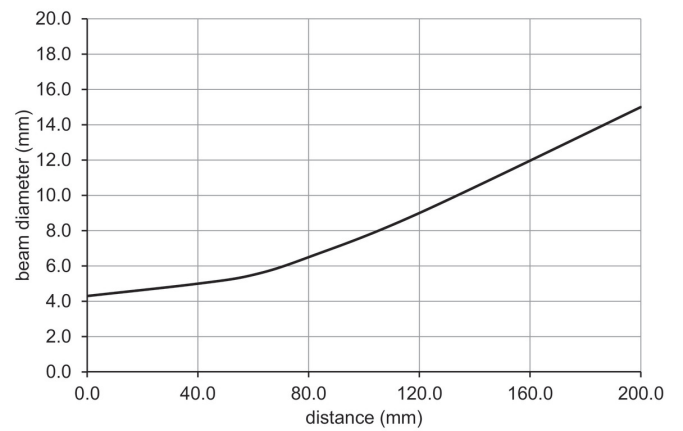
**Ambient conditions**

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

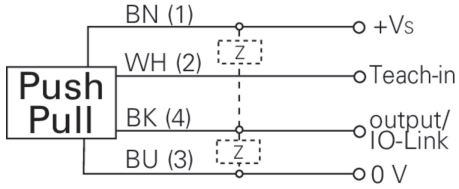
**Dimension drawing**



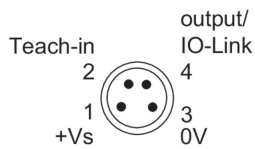
**Beam characteristic (typically)**



**Connection diagram**



**Pin assignment**



**Relative receiving signal**

