

**Overview**

- Most secure object detection due to the barrier principle
- 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	Through beam sensor	Output current	50 mA
Emitter / receiver	Receiver	Short circuit protection	Yes
Light source	Use with pulsed red LED	Reverse polarity protection	Yes
Actual range Sb	5 m	<b>Communication interface</b>	
Nominal range Sn	6 m	Baud rate	230,4 kBaud (COM 3)
Smallest object recognizable typ.	5 mm (0,5 mm with aperture)	Adjustable parameters	Switching point Time filters LED status indicators Output logic Counter Deactivate the sensor element Find Me function Teach-in mode
Alignment / soiled lens indicator	Flashing output indicator	IO-Link port type	Class A
Output indicator	LED yellow	Process data length	32 Bit
Power on indication	LED green	Process data structure	Bit 0 = SSC1 (presence) Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 16-31 = 16 Bit measurement
Sensitivity adjustment	Teach-in and IO-Link	Interface	IO-Link V1.1
Suppression of reciprocal influence	Yes	Additional data	Signal strength Excess gain Operating cycles Device temperature
<b>Electrical data</b>		Cycle time	≥ 0.6 ms
Response time / release time	< 0.5 ms		
Jitter	< 0.15 ms		
Voltage supply range +Vs	10 ... 30 VDC		
Current consumption max. (no load)	20 mA (@ 10 VDC)		
Current consumption typ.	16 mA (@ 24 VDC)		
Voltage drop Vd	<2 VDC		
Output function	Light / dark operate		
Output circuit	Push-pull		

2024-02-16 The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.

### Technical data

#### Mechanical data

Width / diameter	8 mm
Height / length	25.1 mm
Depth	14.1 mm
Design	Rectangular
Mechanical mounting	Threaded sleeves M3 (stainless steel)
Housing material	Plastic (ASA, PMMA)

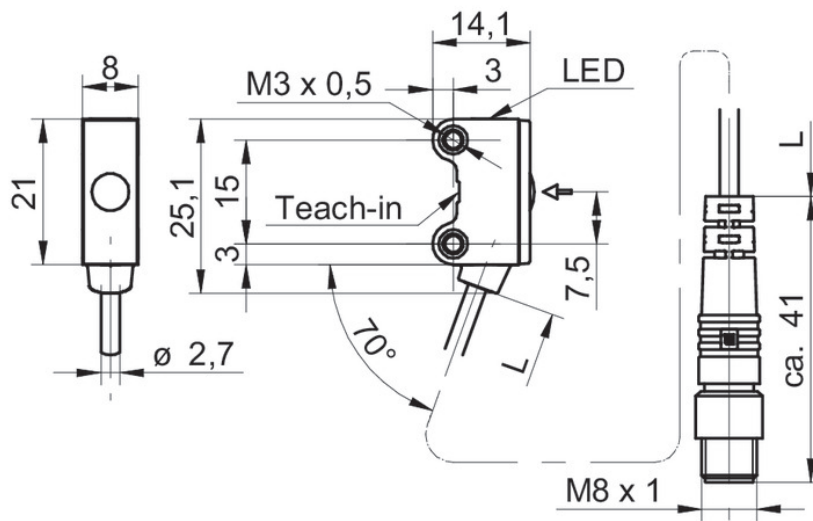
#### Mechanical data

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>

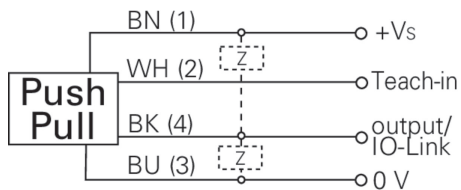
#### Ambient conditions

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

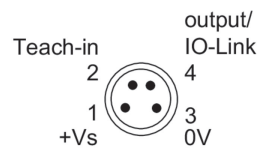
### Technical drawings



### Connection diagram



### Pin assignment



**Excess gain curve**

