

## 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
- Robust housing with stainless steel spacer sleeves



## Technical data

### general data

type	through beam sensor
emitter / receiver	receiver
light source	use with pulsed red LED
actual range Sb	5 m
nominal range Sn	6 m
smallest object recognizable typ.	5 mm (0,5 mm with aperture)
alignment / soiled lens indicator	flashing output indicator
output indicator	LED yellow
power on indication	LED green
sensitivity adjustment	Teach-in and IO-Link
suppression of reciprocal influence	yes

### electrical data

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
output current	< 50 mA

### electrical data

short circuit protection	yes
reverse polarity protection	yes

### communication interface

baud rate	230,4 kBaud (COM 3)
adjustable parameters	switching point time filters LED status indicators output logic counter deactivate the sensor element Find Me function Teach-in mode
IO-Link port type	Class A
process data length	32 Bit
process data structure	Bit 0 = SSC1 (presence) Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 16-31 = 16 Bit measurement
interface	IO-Link V1.1
additional data	signal strength excess gain operating cycles device temperature
cycle time	≥ 0,6 ms

### mechanical data

width / diameter	8 mm
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## Technical data

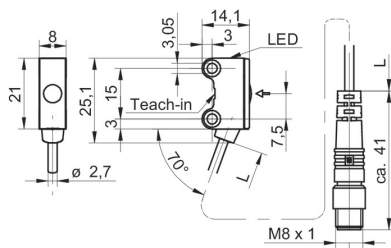
### mechanical data

height / length	25,1 mm
depth	14,1 mm
type	rectangular
mechanical mounting	sleeve smooth (stainless steel)
housing material	plastic (ASA, PMMA)
front (optics)	PMMA

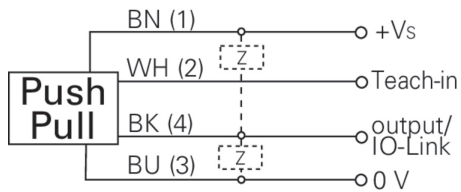
### mechanical data

connection types	flylead connector M8 4 pin, L=200 mm
cable characteristics	PVC / PVC 4 x 0,08 mm <sup>2</sup>
<b>ambient conditions</b>	
operating temperature	-25 ... +50 °C
protection class	IP 67

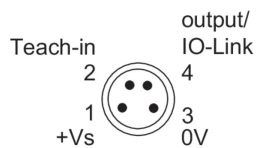
## dimension drawing



## connection diagram



## pin assignment



## excess gain curve

