

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

Type	Through beam sensor
Emitter / receiver	Receiver
Light source	Use with pulsed red laser diode
Actual range Sb	5 m
Nominal range Sn	6 m
Smallest object recognizable typ.	3 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	< 0,1 ms < 0,12 ms
Jitter	< 0,03 ms < 0,05 ms
Voltage supply range +Vs	10 ... 30 VDC
Current consumption max. (no load)	20 mA (@ 10 VDC)
Current consumption typ.	10 mA (@ 24 VDC)
Voltage drop Vd	< 2 VDC
Output function	Light / dark operate

Electrical data

Output circuit	Push-pull
Output current	< 50 mA
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

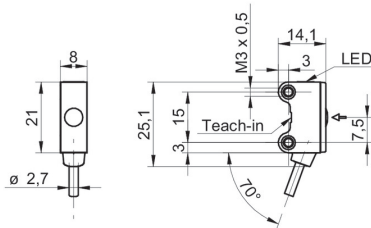
Cycle time	≥ 0,6 ms
------------	----------

Technical data

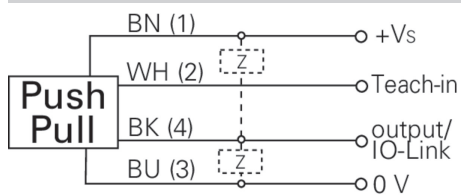
Mechanical data	
Width / diameter	8 mm
Height / length	25,1 mm
Depth	14,1 mm
Type	Rectangular
Mechanical mounting	Threaded sleeves M3 (stainless steel)
Housing material	Plastic (ASA, PMMA)

Mechanical data	
Front (optics)	PMMA
Connection types	Cable 4 pin, 2 m
Cable characteristics	PVC / PVC 4 x 0,08 mm²
Ambient conditions	
Operating temperature	-25 ... +50 °C
Protection class	IP 67

Dimension drawing



Connection diagram



Excess gain curve

