

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
- Robust housing with stainless steel spacer sleeves



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		

Technical data

Communication interface

Cycle time $\geq 0,6$ ms

Mechanical data

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

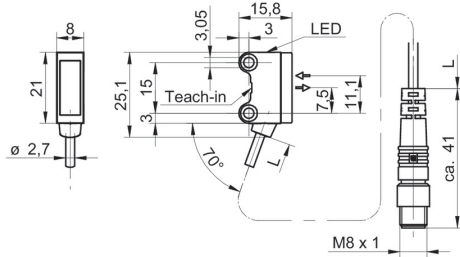
Mechanical data

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 mm²

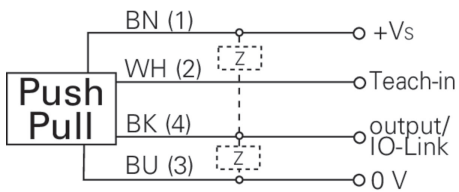
Ambient conditions

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

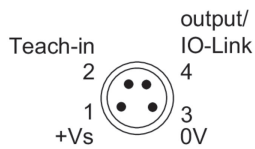
Dimension drawing



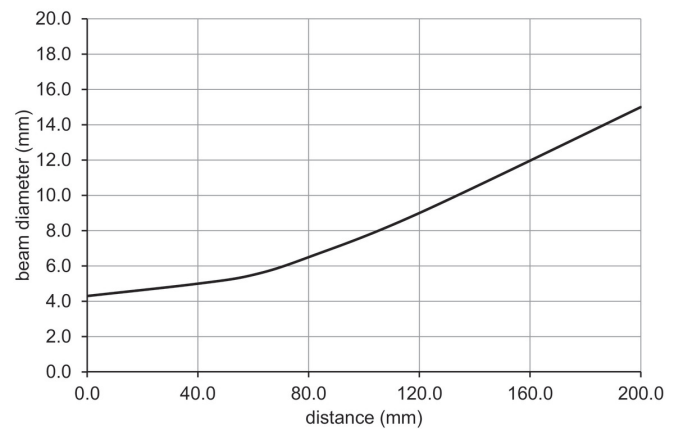
Connection diagram



Pin assignment



Beam characteristic (typically)



Relative receiving signal

