

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		Communication interface	
Type	Intensity difference	Interface	IO-Link V1.1
Sensing distance Tw	20 ... 200 mm	IO-Link port type	Class A
Smallest object recognizable typ.	2 mm at 100 mm	Baud rate	230,4 kBaud (COM 3)
Power on indication	LED green	Cycle time	≥ 0.6 ms
Alignment / soiled lens indicator	Flashing output indicator	Process data length	32 Bit
Output indicator	LED yellow	Process data structure	Bit 0 = SSC1 (presence) Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 16-31 = 16 Bit measurement
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
Suppression of reciprocal influence	Yes	Additional data	Signal strength Excess gain Operating cycles Device temperature
Beam type	Point		
Alignment optical axis	< 1,5°		
Light Source		Mechanical data	
Light source	Pulsed red LED	Width / diameter	8 mm
Wave length	644 nm	Height / length	25.1 mm
		Depth	15.8 mm
Electrical data		Design	Rectangular
Response time / release time	< 0.25 ms	Mechanical mounting	Threaded sleeves M3 (stainless steel)
Jitter	< 0.06 ms	Housing material	Plastic (ASA, PMMA)
Voltage supply range +Vs	10 ... 30 VDC	Front (optics)	PMMA
Current consumption max. (no load)	40 mA (@ 10 VDC)	Connection types	Cable 4 pin, 2 m
Current consumption typ.	16 mA (@ 24 VDC)	Cable characteristics	PVC / PVC 4 x 0.08 mm ²
Voltage drop Vd	<2 VDC		
Output function	Light / dark operate		
Output circuit	Push-pull		
Output current	50 mA		
Short circuit protection	Yes		
Reverse polarity protection	Yes		

Technical data

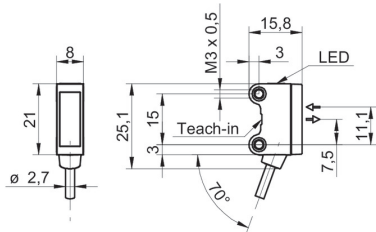
Ambient conditions

Protection class IP 67

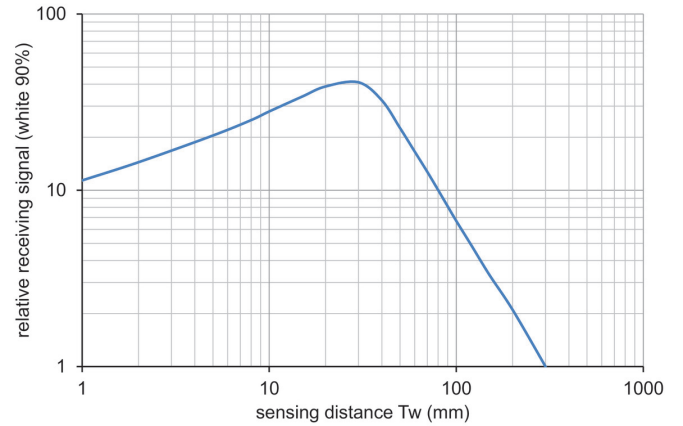
Ambient conditions

Operating temperature -25 ... +50 °C

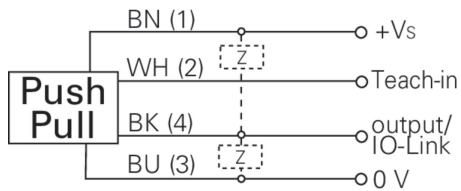
Dimension drawing



Relative receiving signal



Connection diagram



Beam characteristic (typically)

