

Overview

- Outstanding reliability and unrivalled immunity against ambient light
- Baumer PinPoint LED: Small, homogeneous light spot with sharp edges
- Line beam for complete detection of irregular, perforated objects
- 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	Background suppression	Short circuit protection	Yes
Version	Line beam	Reverse polarity protection	Yes
Sensing distance Tw	20 ... 120 mm	Communication interface	
Sensing range Tb	3 ... 132 mm	Interface	IO-Link V1.1
Smallest object recognizable typ.	8 mm at 60 mm	IO-Link port type	Class A
Power on indication	LED green	Baud rate	230.4 kBaud (COM 3)
Alignment / soiled lens indicator	Flashing output indicator	Cycle time	≥ 0.6 ms
Output indicator	LED yellow	Process data length	32 Bit
Sensing distance adjustment	Teach-in and IO-Link	Process data structure	Bit 0 = SSC1 (presence) Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 16-31 = 16 Bit measurement
Suppression of reciprocal influence	Yes	Adjustable parameters	Switching point Switching hysteresis Time filters LED status indicators Output logic Counter Operation mode Deactivate the sensor element Find Me function Teach-in mode
Beam type	Line	Additional data	Excess gain Operating cycles Device temperature
Alignment optical axis	< 1,5°	Mechanical data	
Light Source		Width / diameter	8 mm
Light source	Pulsed PinPoint LED	Height / length	25.1 mm
Wave length	644 nm	Depth	15.8 mm
Electrical data		Design	Rectangular
Response time / release time	< 0.25 ms (High Speed Mode)	Mechanical mounting	Threaded sleeves M3 (stainless steel)
Jitter	< 0.06 ms (High Speed Mode)		
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		
Output function	Light / dark operate		
Output circuit	Push-pull		
Output current	50 mA		

The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change. 2025-01-22

Technical data

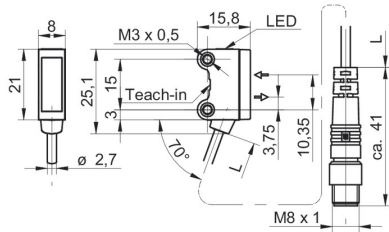
Mechanical data

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 mm ²

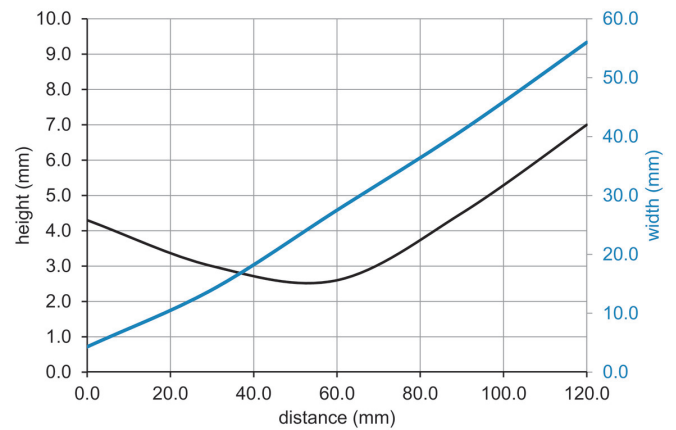
Ambient conditions

Protection class	IP 67
Operating temperature	-30 ... +50 °C

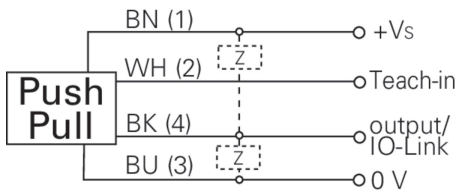
Dimension drawing



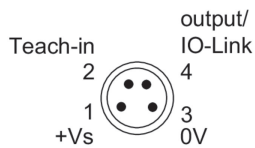
Beam characteristic (typically)



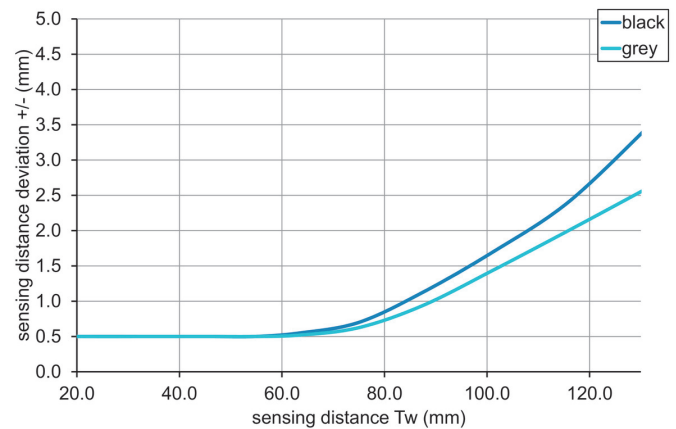
Connection diagram



Pin assignment



Sensing distance diagram



Hysteresis curve

