

O200.GP-GW1J.72NV/E022_H006

Diffuse sensors with background suppression - miniature

Article number: 11230690

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	Current consumption max. (no load)	40 mA (@ 10 VDC)
Version	Line beam	Current consumption typ.	16 mA (@ 24 VDC)
Sensing distance Tw	20 ... 120 mm	Voltage drop Vd	<2 VDC
Sensing range Tb	3 ... 132 mm	Output function	Light / dark operate
Smallest object recognizable typ.	8 mm at 60 mm	Output circuit	Push-pull
Power on indication	LED green	Output current	50 mA
Alignment / soiled lens indicator	Flashing output indicator	Short circuit protection	Yes
Output indicator	LED yellow	Reverse polarity protection	Yes
Sensing distance adjustment	Teach-in and IO-Link	Communication interface	
Suppression of reciprocal influence	Yes	Interface	IO-Link V1.1
Beam type	Line	IO-Link port type	Class A
Alignment optical axis	< 1,5°	Baud rate	230,4 kBaud (COM 3)
Light Source		Cycle time	≥ 0.6 ms
Light source	Pulsed PinPoint LED	Process data length	32 Bit
Wave length	644 nm	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			
Response time / release time	< 0.25 ms (High Speed Mode)		
Jitter	< 0.06 ms (High Speed Mode)		
Voltage supply range +Vs	10 ... 30 VDC		

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Communication interface

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

Additional data	Excess gain
	Operating cycles
	Device temperature

Mechanical data

Width / diameter	8 mm
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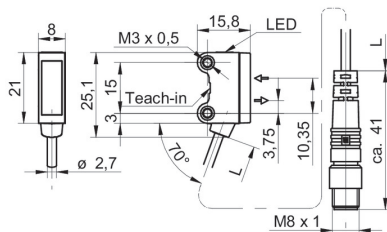
Mechanical data

Height / length	25.1 mm
Depth	15.8 mm
Design	Rectangular
Mechanical mounting	Threaded sleeves M3 (stainless steel)
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

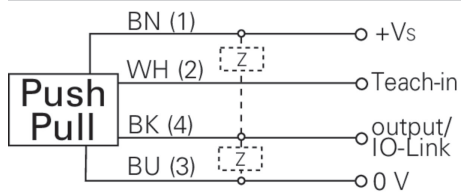
Ambient conditions

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

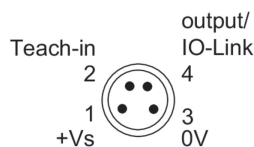
Dimension drawing



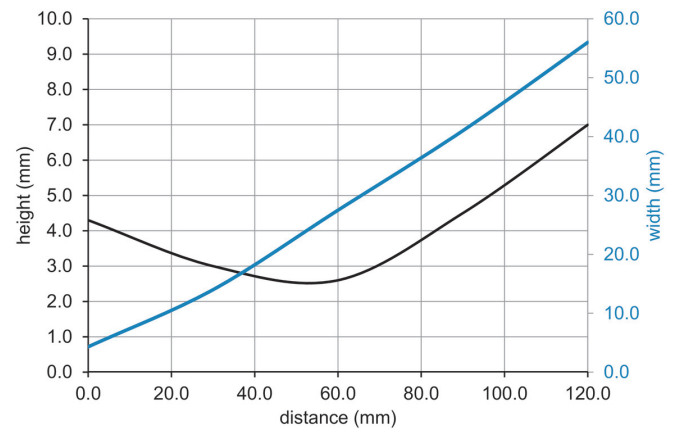
Connection diagram



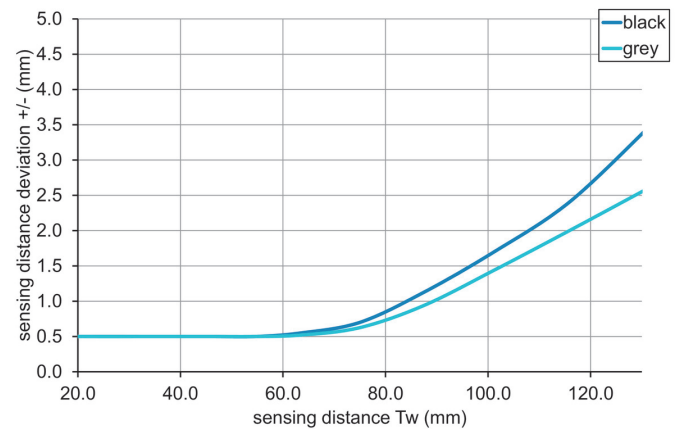
Pin assignment



Beam characteristic (typically)



Sensing distance diagram



Hysteresis curve

