

O200.GP-GW1J.72NV

Diffuse sensors with background suppression - miniature

Article number: 11208513

Overview

- Outstanding reliability and unrivalled immunity against ambient light
- Baumer PinPoint LED: Small, homogeneous light spot with sharp edges
- 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	Background suppression	Output circuit	Push-pull
Light source	Pulsed PinPoint LED	Output current	< 50 mA
Sensing distance Tw	20 ... 120 mm	Short circuit protection	Yes
Sensing range Tb	3 ... 132 mm	Reverse polarity protection	Yes
Smallest object recognizable typ.	0,25 mm at 40 mm	Communication interface	
Alignment / soiled lens indicator	Flashing output indicator	Baud rate	230,4 kBaud (COM 3)
Power on indication	LED green	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
Output indicator	LED yellow	IO-Link port type	Class A
Sensing distance adjustment	Teach-in and IO-Link	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
Suppression of reciprocal influence	Yes	Interface	IO-Link V1.1
Alignment optical axis	< 1,5°	Additional data	Excess gain Operating cycles Device temperature
Electrical data			
Response time / release time	< 0,25 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		

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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

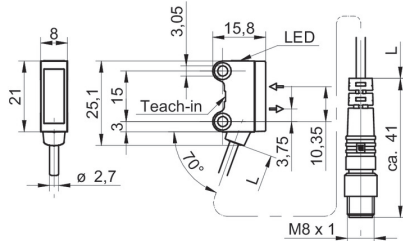
Ambient conditions

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

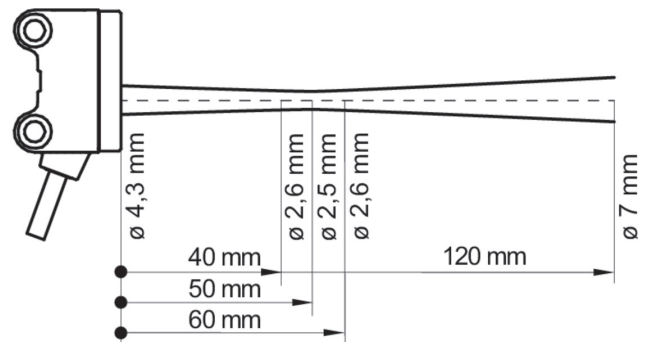
Remarks

- qTeach

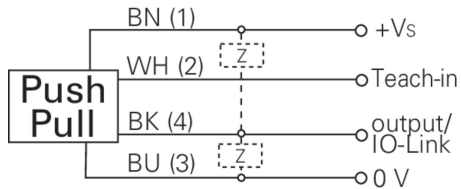
Dimension drawing



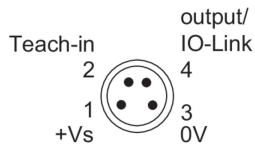
Beam characteristic (typically)



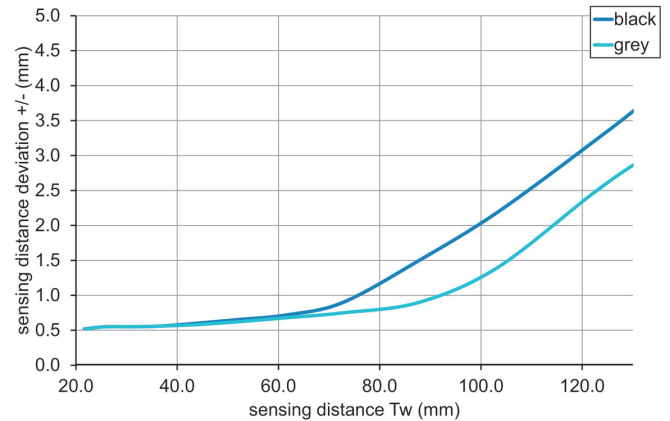
Connection diagram



Pin assignment



Sensing distance diagram



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Hysteresis curve

