

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
- Linear 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



Technical data

general data		electrical data	
type	background suppression	voltage drop Vd	< 2 VDC
version	line beam	output function	light / dark operate
light source	pulsed PinPoint LED	output circuit	push-pull
sensing distance Tw	20 ... 120 mm	output current	< 50 mA
sensing range Tb	3 ... 132 mm	short circuit protection	yes
smallest object recognizable typ.	8 mm at 60 mm	reverse polarity protection	yes
alignment / soiled lens indicator	flashing output indicator	communication interface	
power on indication	LED green	baud rate	230,4 kBaud (COM 3)
output indicator	LED yellow	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
sensing distance adjustment	Teach-in and IO-Link	IO-Link port type	Class A
wave length	644 nm	process data length	32 Bit
suppression of reciprocal influence	yes	process data structure	Bit 0 = SSC1 (presence) Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 16-31 = 16 Bit measurement
beam type	line	interface	IO-Link V1.1
alignment optical axis	< 1,5°		
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		
current consumption max. (no load)	40 mA (@ 10 VDC)		
current consumption typ.	16 mA (@ 24 VDC)		

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Technical data

communication interface

additional data	excess gain
	operating cycles
	device temperature

cycle time	≥ 0,6 ms
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mechanical data

width / diameter	8 mm
height / length	25,1 mm
depth	15,8 mm
type	rectangular

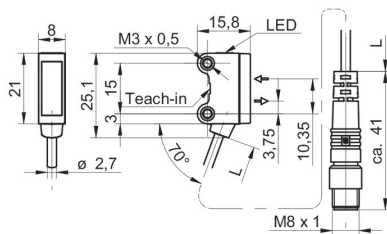
mechanical data

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

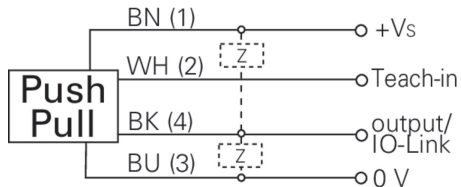
ambient conditions

operating temperature	-25 ... +50 °C
protection class	IP 67

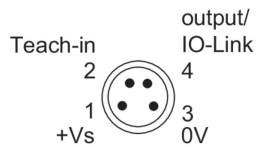
dimension drawing



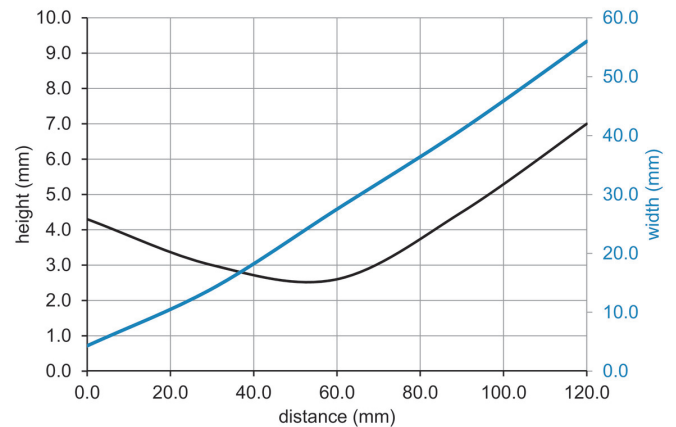
connection diagram



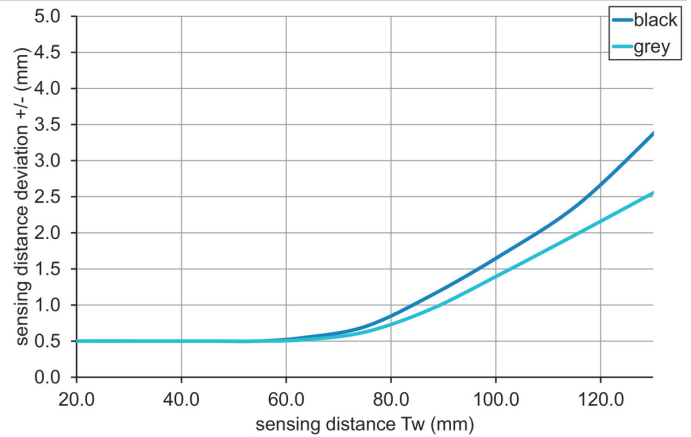
pin assignment



beam characteristic (typically)



sensing distance diagram



hysteresis curve

