

Overview

- Outstanding reliability and unrivalled immunity against ambient light
- Baumer PinPoint LED: Small, homogeneous light spot with sharp edges
- Extra range - best-in-class
- 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

Type	Background suppression
Sensing distance Tw	20 ... 175 mm
Sensing range Tb	3 ... 192 mm
Smallest object recognizable typ.	1 mm at 100 mm
Power on indication	LED green
Alignment / soiled lens indicator	Flashing output indicator
Output indicator	LED yellow
Sensing distance adjustment	Teach-in and IO-Link
Suppression of reciprocal influence	Yes
Beam type	Point
Alignment optical axis	< 1,5°

Light Source

Light source	Pulsed PinPoint LED
Wave length	644 nm

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)
Voltage drop Vd	<2 VDC
Output function	Light / dark operate
Output circuit	Push-pull
Output current	50 mA
Short circuit protection	Yes

Electrical data

Reverse polarity protection	Yes
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Communication interface

Interface	IO-Link V1.1
IO-Link port type	Class A
Baud rate	230,4 kBaud (COM 3)
Cycle time	≥ 0.6 ms
Process data length	32 Bit
Process data structure	Bit 0 = SSC1 (presence) Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 16-31 = 16 Bit measurement

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
Height / length	25.1 mm
Depth	15.8 mm
Design	Rectangular
Mechanical mounting	Threaded sleeves M3 (stainless steel)
Housing material	Plastic (ASA, PMMA)

O200.GP-GW1J.72CV/H006_B005

Diffuse sensors with background suppression - miniature

Article number: 11231205

Technical data

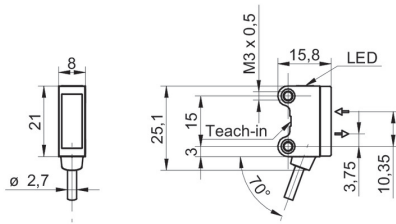
Mechanical data

Front (optics)	PMMA
Connection types	Cable 4 pin, 2 m
Cable characteristics	PVC / PVC 4 x 0.08 mm ²

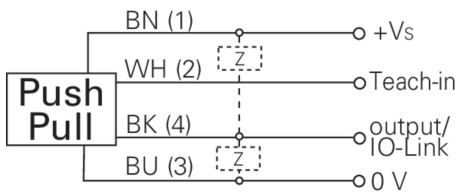
Ambient conditions

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

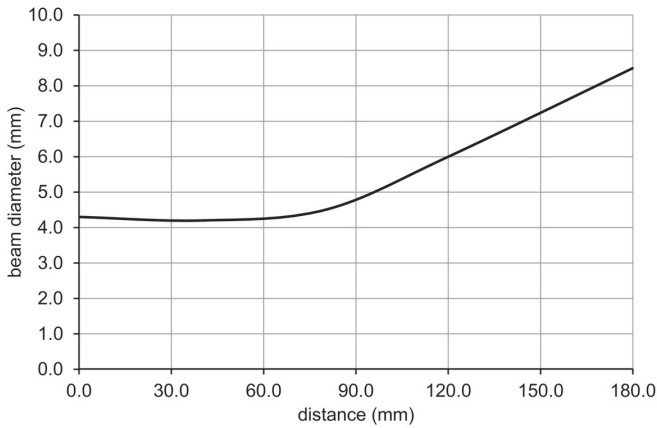
Dimension drawing



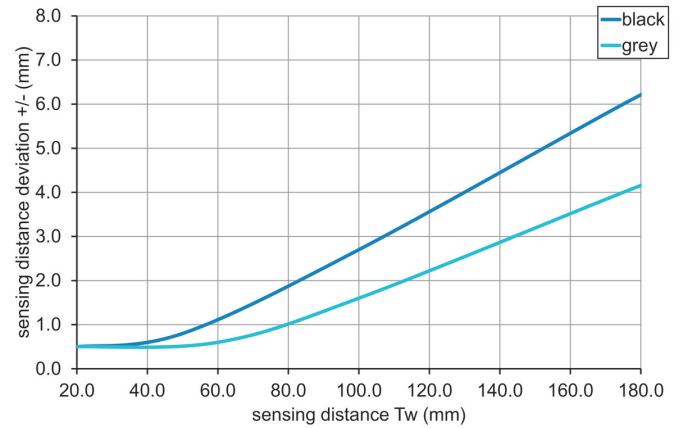
Connection diagram



Beam characteristic (typically)



Sensing distance diagram



Hysteresis curve

