

## O200.GP-GW1J.72CV

Diffuse sensors with background suppression - miniature

Article number: 11210521

### 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 function	Light / dark operate
Sensing distance Tw	20 ... 120 mm	Output circuit	Push-pull
Sensing range Tb	3 ... 132 mm	Output current	50 mA
Smallest object recognizable typ.	0.25 mm at 40 mm	Short circuit protection	Yes
Power on indication	LED green	Reverse polarity protection	Yes
Alignment / soiled lens indicator	Flashing output indicator	<b>Communication interface</b>	
Output indicator	LED yellow	Interface	IO-Link V1.1
Sensing distance adjustment	Teach-in and IO-Link	IO-Link port type	Class A
Suppression of reciprocal influence	Yes	Baud rate	230,4 kBaud (COM 3)
Alignment optical axis	< 1,5°	Cycle time	≥ 0.6 ms
<b>Light Source</b>		Process data length	32 Bit
Light source	Pulsed PinPoint LED	Process data structure	Bit 0 = SSC1 (presence) Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 16-31 = 16 Bit measurement
Wave length	644 nm	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
<b>Electrical data</b>			
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		

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### Technical data

#### Communication interface

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	Sleeve smooth (stainless steel)

#### Mechanical data

Housing material	Plastic (ASA, PMMA)
Front (optics)	PMMA
Connection types	Cable 4 pin, 2 m
Cable characteristics	PVC / PVC 4 x 0.08 mm <sup>2</sup>

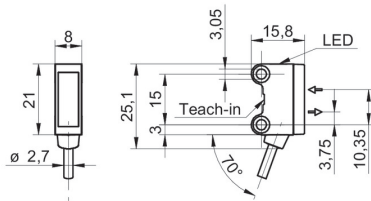
#### Ambient conditions

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

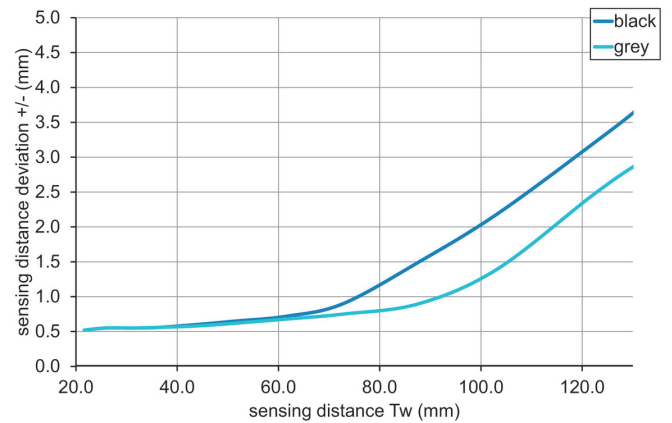
### Remarks

- qTeach

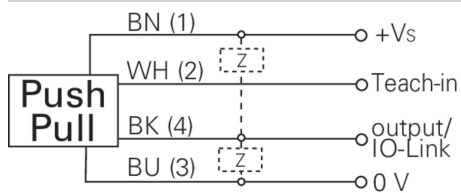
### Dimension drawing



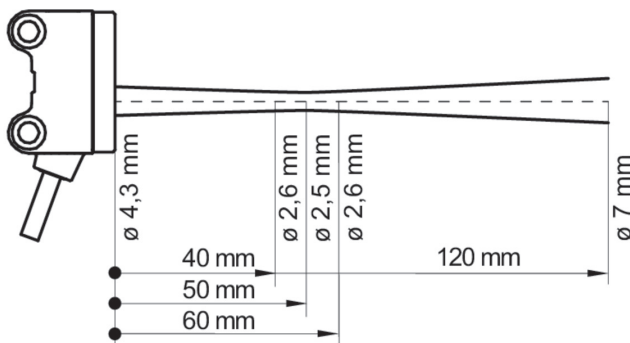
### Sensing distance diagram



### Connection diagram



### Beam characteristic (typically)



### Hysteresis curve

