

# O200.GR.F-GW1J.72CV/E026

Diffuse sensors with background suppression - miniature

Article number: 11210545

## Overview

- Outstanding reliability and unrivalled immunity against ambient light
- V-optics for detection of shiny or transparent objects
- 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

Type	Background suppression
Version	Fixed focus
Light source	Pulsed red LED
Sensing distance Tw	8 ... 13,5 mm
Sensing range Tb	3 ... 15 mm
Smallest object recognizable typ.	0,05 mm at 10 mm
Alignment / soiled lens indicator	Flashing output indicator
Power on indication	LED green
Output indicator	LED yellow
Sensing distance adjustment	Teach-in and IO-Link
Wave length	644 nm
Suppression of reciprocal influence	Yes
Alignment optical axis	< 1,5°

### 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

### Electrical data

Output function	Light / dark operate
Output circuit	Push-pull
Output current	< 50 mA
Short circuit protection	Yes
Reverse polarity protection	Yes

### Communication interface

Baud rate	230,4 kBaud (COM 3)
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
IO-Link port type	Class A
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
Interface	IO-Link V1.1

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### 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	14,1 mm
Type	Rectangular

### Mechanical data

Mechanical mounting	Sleeve smooth (stainless steel)
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>

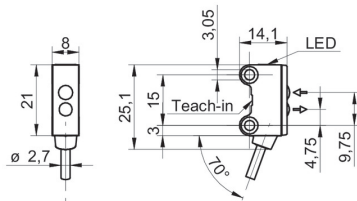
### Ambient conditions

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

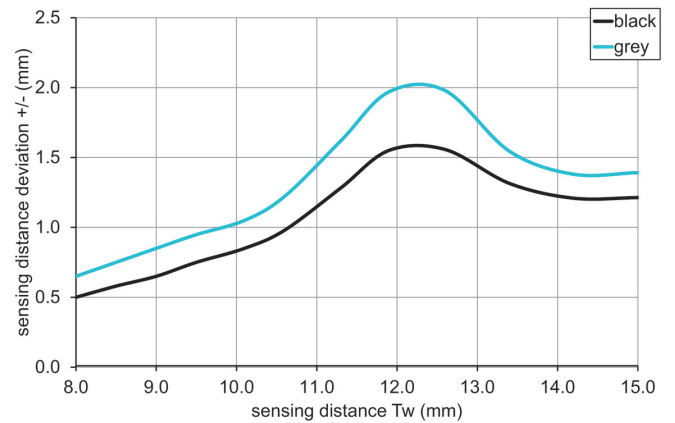
## Remarks

- qTeach

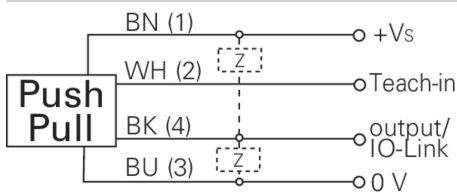
## Dimension drawing



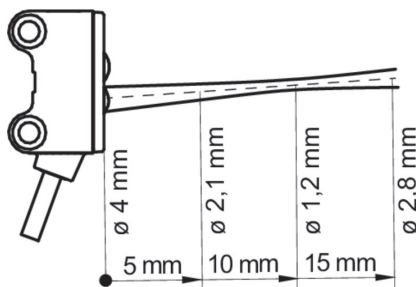
## Sensing distance diagram



## Connection diagram



## Beam characteristic (typically)



## Hysteresis curve

