

O200.GL-GW1J.72CV/F040_H006

Diffuse sensors with background suppression - miniature

Article number: 11230772

Overview

- Outstanding reliability and unrivalled immunity against ambient light
- Focused laser beam for small objects or gaps
- 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		Electrical data	
Type	Background suppression	Current consumption max. (no load)	20 mA (@ 10 VDC)
Light source	Pulsed red laser diode	Current consumption typ.	10 mA (@ 24 VDC)
Sensing distance Tw	20 ... 120 mm	Voltage drop Vd	< 2 VDC
Sensing range Tb	3 ... 132 mm	Output function	Light / dark operate
Smallest object recognizable typ.	0,05 mm at 40 mm	Output circuit	Push-pull
Alignment / soiled lens indicator	Flashing output indicator	Output current	< 50 mA
Power on indication	LED green	Short circuit protection	Yes
Output indicator	LED yellow	Reverse polarity protection	Yes
Sensing distance adjustment	Teach-in and IO-Link	Communication interface	
Laser class	1	Baud rate	230,4 kBaud (COM 3)
Distance to focus	40 mm	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
Wave length	680 nm	IO-Link port type	Class A
Suppression of reciprocal influence	Yes	Process data length	32 Bit
Beam type	Point		
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		

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Communication interface

Process data structure	Bit 0 = SSC1 (presence) Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 16-31 = 16 Bit measurement
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Interface	IO-Link V1.1
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Additional data	Excess gain Operating cycles Device temperature
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Cycle time	≥ 0,6 ms
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Mechanical data

Width / diameter	8 mm
Height / length	25,1 mm

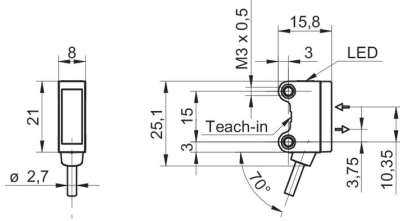
Mechanical data

Depth	15,8 mm
Type	Rectangular
Mechanical mounting	Threaded sleeves M3 (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 ²

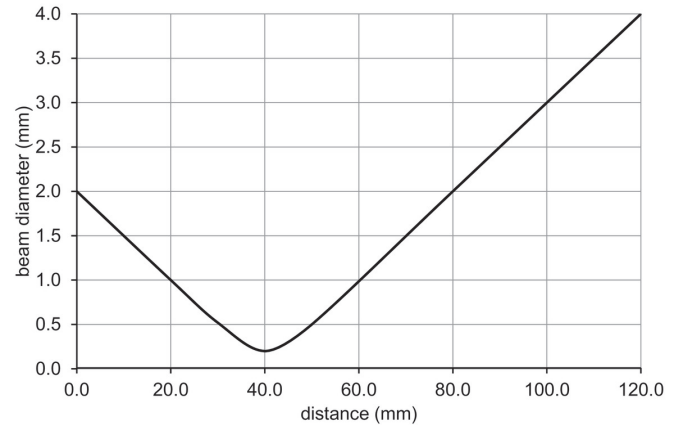
Ambient conditions

Protection class	IP 67
Operating temperature	-20 ... +50 °C

Dimension drawing



Beam characteristic (typically)

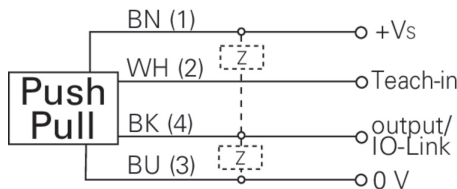


Laser warning

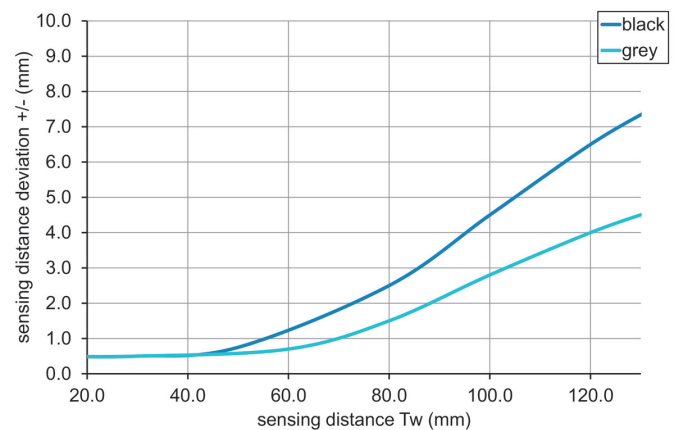
**CLASS 1 LASER
PRODUCT**

IEC 60825-1/2014
Complies with 21 CFR 1040.10 and
1040.11 except for conformance with
IEC 60825-1 Ed. 3., as described in
Laser Notice No. 56, dated May 8, 2019

Connection diagram



Sensing distance diagram



Hysteresis curve

