

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 dia-
- Quick mounting by means of M3 threaded bushes made of stainless



Picture similar







Technical data			
General data		Electrical data	
Туре	Background suppression	Output current	50 mA
Sensing distance Tw	20 120 mm	Short circuit protection	Yes
Sensing range Tb	3 132 mm	Reverse polarity protection	Yes
Smallest object recogniz-	, 0	Communication interface	
able typ.		Interface	IO-Link V1.1
Power on indication	LED green	IO-Link port type	Class A
Alignment / soiled lens in-	Flashing output indicator	Baud rate	230,4 kBaud (COM 3)
dicator	I ED vellevi	Cycle time	≥ 0.6 ms
Output indicator	LED yellow	Process data length	32 Bit
Sensing distance adjust- ment	Teach-in and IO-Link	Process data structure Bit 0 = SSC1 (presence) Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 16-31 = 16 Bit measu	
Distance to focus	40 mm		, ,
Suppression of reciprocal influence	Yes		Bit 5 = SSC4 (counter) Bit 16-31 = 16 Bit measurement
Beam type	Point	Adjustable parameters	Switching point
Alignment optical axis	< 1,5°	Switching hysteresis	
Light Source			Time filters LED status indicators
Light source	Pulsed red laser diode		Output logic
Laser class	1		Counter Operation mode
Wave length	680 nm		
Electrical data			Deactivate the sensor element Find Me function
Response time / release time	≤ 0.25 ms (High Speed Mode)	A dallista and data	Teach-in mode
Jitter	≤ 0.06 ms (High Speed Mode)	Additional data	Excess gain Operating cycles Device temperature
Voltage supply range +Vs	10 30 VDC		
Current consumption max.	20 mA (@ 10 VDC)	Mechanical data	
(no load)		Width / diameter	8 mm
Current consumption typ.	10 mA (@ 24 VDC)	Height / length	25.1 mm
Voltage drop Vd	<2 VDC	Depth	15.8 mm
Output function	Light / dark operate	Design	Rectangular
Output circuit	Push-pull		



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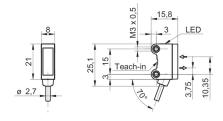
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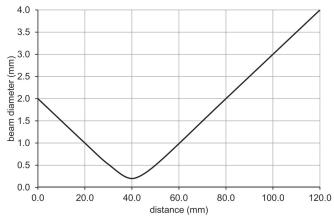
Technical data	
Mechanical data	
Mechanical mounting	Threaded sleeves M3 (stainless steel)
Housing material	Plastic (ASA, PMMA)
Front (optics)	PMMA
Connection types	Cable 4 pin, 2 m

Mechanical data		
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)

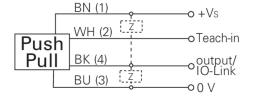


Laser warning

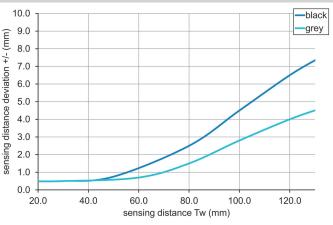
CLASS 1 LASER PRODUCT

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



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