

O200.GL-GW1J.72CV/E022_F060

Diffuse sensors with background suppression - miniature

Article number: 11230771

Overview

- Outstanding reliability and unrivalled immunity against ambient light
- Line beam for complete detection of irregular, perforated objects
- Precise detection thanks to laser light source
- 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	
Туре	Background suppression	Output circuit	Push-pull
Version	Line beam	Output current	50 mA
Sensing distance Tw	20 120 mm	Short circuit protection	Yes
Sensing range Tb	3 122 mm	Reverse polarity protection	Yes
Smallest object recogniz- able typ.	8 mm at 60 mm	Communication interface 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	3	Cycle time	≥ 0.6 ms
Output indicator	LED yellow	Process data length	2 0.6 ms 32 Bit
Sensing distance adjust- ment	Teach-in and IO-Link	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	Bit 0 = SSC1 (presence)
Distance to focus	60 mm		. ,
Suppression of reciprocal influence	Yes		Bit 5 = SSC4 (counter)
Beam type	Line	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 Counter Operation mode Deactivate the sensor element Find Me function
Laser class	1		
Wave length	680 nm		
Electrical data			
Response time / release time	< 0.25 ms (High Speed Mode)		Teach-in mode
Jitter	< 0.06 ms (High Speed Mode)	Additional data	Excess gain Operating cycles
Voltage supply range +Vs	10 30 VDC		Device temperature
Current consumption max. (no load)	20 mA (@ 10 VDC)	Mechanical data	
Current consumption typ.	10 mA (@ 24 VDC)	Width / diameter	8 mm
Voltage drop Vd	<2 VDC	Height / length	25.1 mm
Output function	Light / dark operate	Depth	15.8 mm



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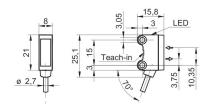
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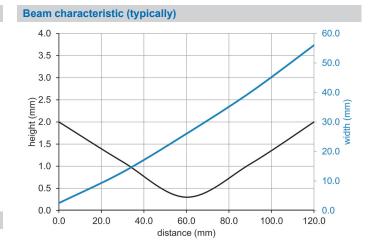
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Technical data	
Mechanical data	
Design	Rectangular
Mechanical mounting	Sleeve smooth (stainless steel)
Housing material	Plastic (ASA, PMMA)
Front (optics)	PMMA
Connection types	Cable 4 pin, 2 m

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



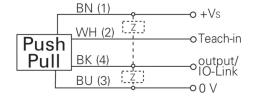


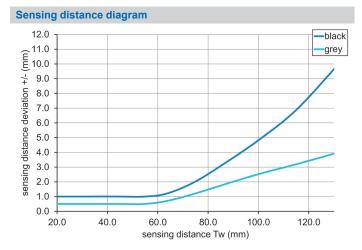
Laser warning

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





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