

# O200.GL-PV1T.72CV/E022\_F060\_H006

Diffuse sensors with background suppression - miniature

Article number: 11231152

## 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
- qTeach tamper-proof, simple teach-in with ferromagnetic tool
- Quick mounting by means of M3 threaded bushes made of stainless



Picture similar





Technical data	
General data	
Туре	Background suppression
Version	Line beam
Sensing distance Tw	20 120 mm
Sensing range Tb	3 122 mm
Smallest object recognizable typ.	8 mm at 60 mm
Power on indication	LED green
Alignment / soiled lens indicator	Flashing output indicator
Output indicator	LED yellow
Sensing distance adjust- ment	qTeach
Distance to focus	60 mm
Suppression of reciprocal influence	Yes
Beam type	Line
Alignment optical axis	< 1,5°
Light Source	
Light source	Pulsed red laser diode
Laser class	1
Wave length	680 nm
Electrical data	
Response time / release time	≤ 2 ms

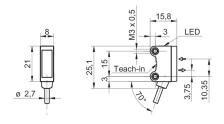
Electrical data	
Jitter	≤ 2 ms
Voltage supply range +Vs	10 30 VDC
Current consumption max. (no load)	20 mA (@ 10 VDC)
Current consumption typ.	10 mA (@ 24 VDC)
Voltage drop Vd	<2 VDC
Output function	Light / dark operate
Output circuit	PNP complementary
Output current	50 mA
Short circuit protection	Yes
Reverse polarity protection	Yes
Mechanical data	
Width / diameter	8 mm
Height / length	25.1 mm
Depth	15.8 mm
Design	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 <sup>2</sup>
Ambient conditions	
Protection class	IP 67
Operating temperature	-20 +50 °C

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## **Dimension drawing**



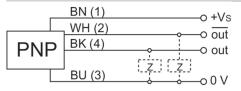
#### Sensing distance diagram 12.0 -black 11.0 grey 10.0 9.0 sensing distance deviation +/-8.0 7.0 6.0 5.0 4.0 3.0 2.0 1.0 0.0 40.0 20.0 80.0 100.0 120.0 sensing distance Tw (mm)

## 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**



#### **Hysteresis curve** 20.0 white 18.0 grey -black 16.0 14.0 hysteresis (mm) 0.8 0 0.01 0.00 0.01 6.0 4.0 2.0 0.0 20.0 40.0 60.0 80.0 100.0 120.0 sensing distance Tw (mm)

