

O200.GL-PV1T.72CV/F040_H006

Diffuse sensors with background suppression - miniature

Article number: 11231140

Overview

- Outstanding reliability and unrivalled immunity against ambient light
- Focused laser beam for small objects or gaps
- qTeach - tamper-proof, simple teach-in with ferromagnetic tool
- Quick mounting by means of M3 threaded bushes made of stainless steel



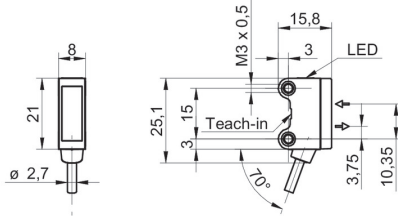
Picture similar



Technical data

General data		Electrical data	
Type	Background suppression	Voltage supply range +Vs	10 ... 30 VDC
Sensing distance Tw	20 ... 120 mm	Current consumption max. (no load)	20 mA (@ 10 VDC)
Sensing range Tb	3 ... 132 mm	Current consumption typ.	10 mA (@ 24 VDC)
Smallest object recognizable typ.	0.05 mm at 40 mm	Voltage drop Vd	<2 VDC
Power on indication	LED green	Output function	Light / dark operate
Alignment / soiled lens indicator	Flashing output indicator	Output circuit	PNP complementary
Output indicator	LED yellow	Output current	50 mA
Sensing distance adjustment	qTeach	Short circuit protection	Yes
Distance to focus	40 mm	Reverse polarity protection	Yes
Suppression of reciprocal influence	Yes	Mechanical data	
Beam type	Point	Width / diameter	8 mm
Alignment optical axis	< 1,5°	Height / length	25.1 mm
Light Source		Depth	15.8 mm
Light source	Pulsed red laser diode	Design	Rectangular
Laser class	1	Mechanical mounting	Threaded sleeves M3 (stainless steel)
Wave length	680 nm	Housing material	Plastic (ASA, PMMA)
Electrical data		Front (optics)	PMMA
Response time / release time	≤ 0.5 ms	Connection types	Cable 4 pin, 2 m
Jitter	≤ 0.12 ms	Cable characteristics	PVC / PVC 4 x 0.08 mm ²
		Ambient conditions	
		Protection class	IP 67
		Operating temperature	-20 ... +50 °C

Dimension drawing

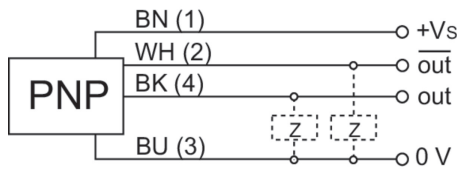


Laser warning

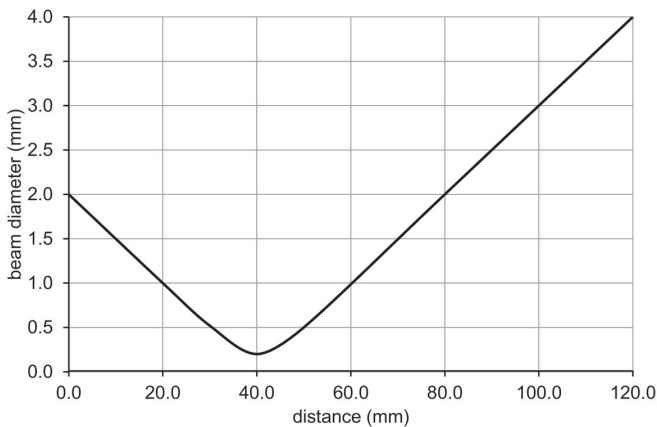
CLASS 1 LASER PRODUCT

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

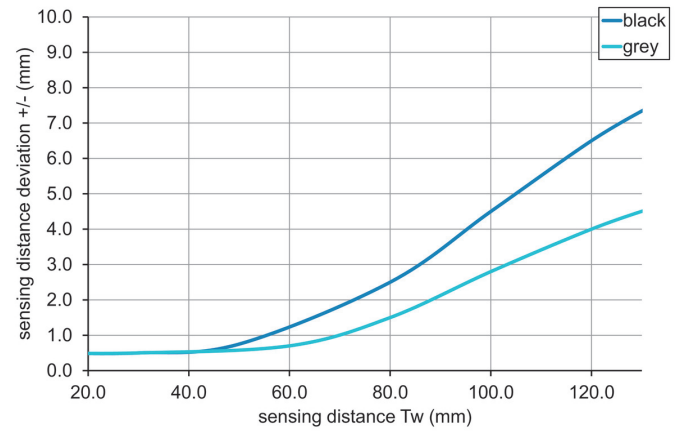
Connection diagram



Beam characteristic (typically)



Sensing distance diagram



Hysteresis curve

