Diffuse sensors with background suppression

O200.GL-PV1T.72NV/F160_B005

Diffuse sensors with background suppression - miniature

Article number: 11231149

overview

- Outstanding reliability and unrivalled immunity against ambient light
- Extra range - best-in-class
- qTeach - tamper-proof, simple teach-in with ferromagnetic tool
- Robust housing with stainless steel spacer sleeves

Technical data

general data	
type	background suppression
light source	pulsed red laser diode
sensing distance Tw	20 … 175 mm
sensing range Tb	3 … 192 mm
smallest object recognizable typ.	0,5 mm at 100 mm
alignment / soiled lens indicator	flashing output indicator
power on indication	LED green
output indicator	LED yellow
sensing distance adjustment	qTeach
laser class	1
distance to focus	160 mm
wave length	680 nm
suppression of reciprocal influence	yes
beam type	point
alignment optical axis	< 1,5°
electrical data	
response time / release time	≤ 0,5 ms
jitter	≤ 0,12 ms

electrical data	
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
type	rectangular
mechanical mounting	sleeve smooth (stainless steel)
housing material	plastic (ASA, PMMA)
front (optics)	PMMA
connection types	flylead connector M8 4 pin, L=200 mm
cable characteristics	PVC / PVC 4 x 0,08 mm²
ambient conditions	
operating temperature	-20 … +50 °C
protection class	IP 67

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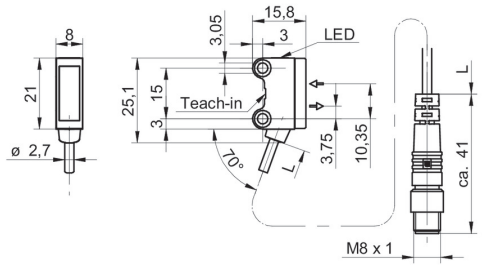
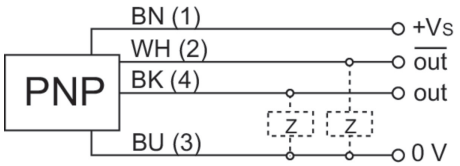
dimension drawing



connection diagram

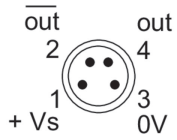


laser warning

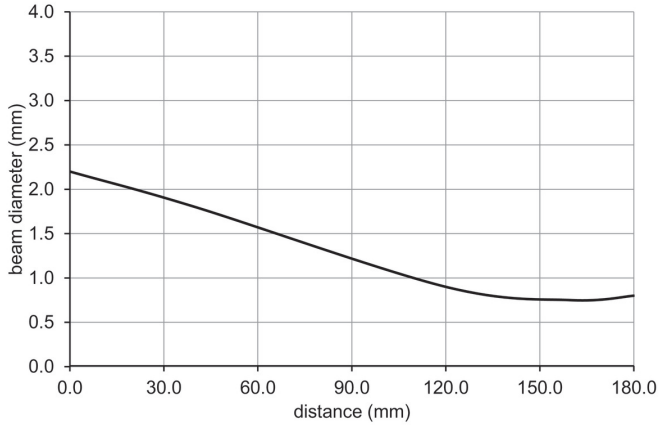
CLASS 1 LASER PRODUCT

IEC 60825-1/2014
Complies with 21 CFR 1040.10 and 1040.11
except for deviations pursuant to laser
notice No. 50, dated June 24, 2007

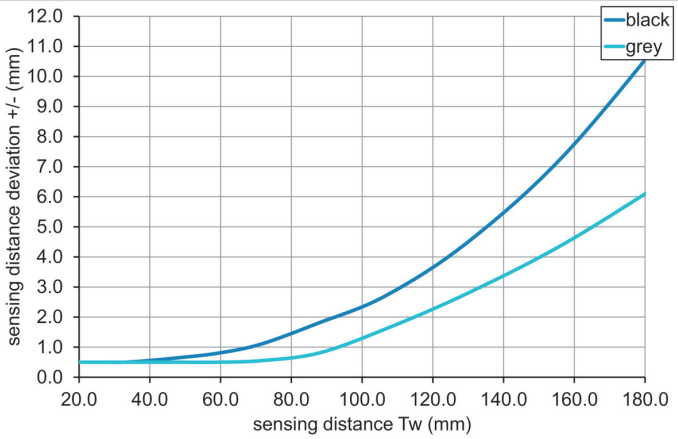
pin assignment



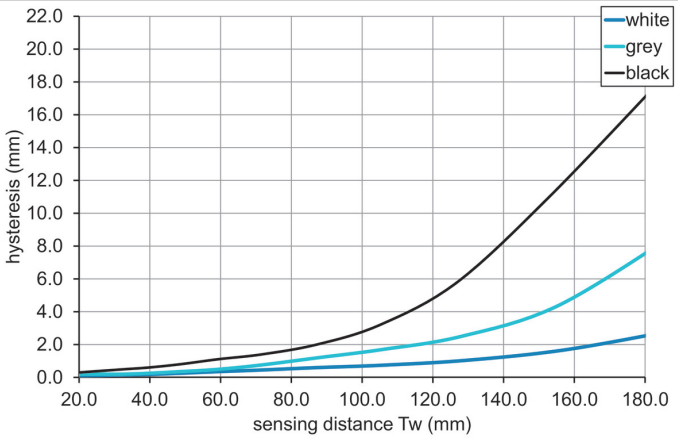
beam characteristic (typically)



sensing distance diagram



hysteresis curve



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