Diffuse sensors with intensity difference

O200.ZR-PV1T.72NV/E026

Article number: 11231248

overview

- Reliable intensity-based object detection
- qTeach - tamper-proof, simple teach-in with ferromagnetic tool
- Robust housing with stainless steel spacer sleeves

Technical data

general data	
type	intensity difference
light source	pulsed red LED
sensing distance Tw	20 … 200 mm
smallest object recognizable typ.	2 mm at 100 mm
alignment / soiled lens indicator	flashing output indicator
power on indication	LED green
output indicator	LED yellow
sensing distance adjustment	qTeach
wave length	644 nm
suppression of reciprocal influence	yes
beam type	point
alignment optical axis	< 1,5°
electrical data	
response time / release time	< 0,25 ms
jitter	< 0,06 ms
voltage supply range +Vs	10 … 30 VDC
current consumption max. (no load)	40 mA (@ 10 VDC)

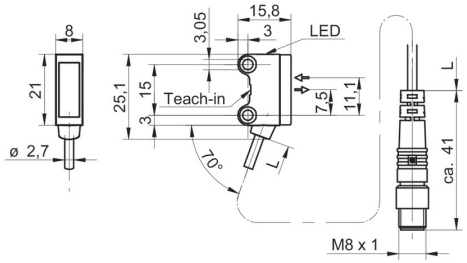
electrical data	
current consumption typ.	16 mA (@ 24 VDC)
voltage drop Vd	< 2 VDC
output function	light / dark operate
output circuit	PNP complementary
output current	< 50 mA
short circuit protection	yes
reverse polarity protection	yes
mechanical data	
width / diameter	8 mm
height / length	25,1 mm
depth	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	-25 … +50 °C
protection class	IP 67

Diffuse sensors with intensity difference

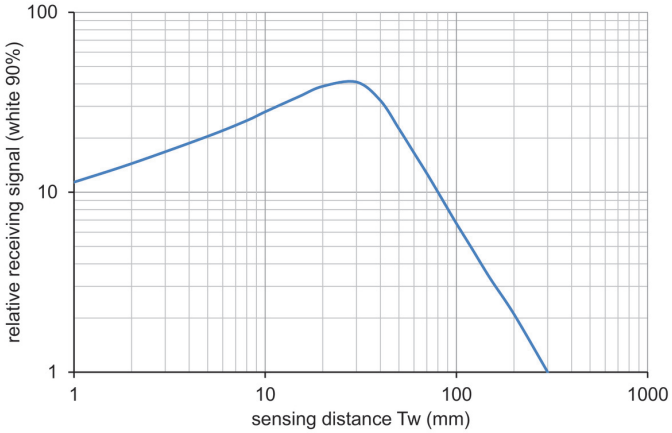
O200.ZR-PV1T.72NV/E026

Article number: 11231248

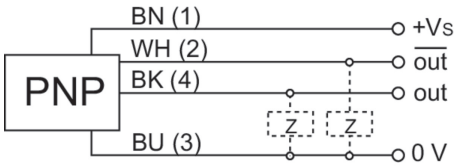
dimension drawing



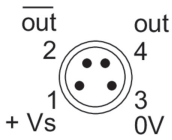
relative receiving signal



connection diagram



pin assignment



beam characteristic (typically)