

Overview

- Outstanding reliability and unrivalled immunity against ambient light
- V-optics for detection of shiny or transparent objects
- Reproducible and color-independent switching distances
- Fixed preset for the simplest commissioning
- Quick mounting by means of M3 threaded bushes made of stainless steel



Picture similar



Technical data

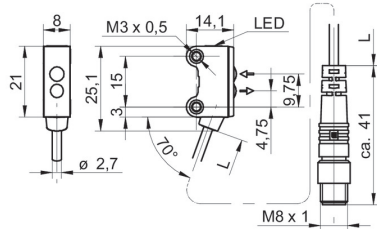
General data		Electrical data	
Type	Background suppression	Current consumption max. (no load)	20 mA (@ 30 VDC)
Version	Fixed focus	Current consumption typ.	16 mA (@ 24 VDC)
Sensing distance Tw	15 mm	Voltage drop Vd	<2 VDC
Sensing range Tb	3 ... 15 mm	Output function	Light / dark operate
Smallest object recognizable typ.	0.05 mm at 10 mm	Output circuit	PNP complementary
Power on indication	LED green	Output current	50 mA
Alignment / soiled lens indicator	Flashing output indicator	Short circuit protection	Yes
Output indicator	LED yellow	Reverse polarity protection	Yes
Sensing distance adjustment	No	Mechanical data	
Suppression of reciprocal influence	Yes	Width / diameter	8 mm
Alignment optical axis	< 1,5°	Height / length	25.1 mm
Light Source		Depth	14.1 mm
Light source	Pulsed red LED	Design	Rectangular
Wave length	644 nm	Mechanical mounting	Threaded sleeves M3 (stainless steel)
Electrical data		Housing material	Plastic (ASA, PMMA)
Response time / release time	< 1 ms	Front (optics)	PMMA
Voltage supply range +Vs	10 ... 30 VDC	Connection types	Flylead connector M8 4 pin, L=200 mm
		Cable characteristics	PVC / PVC 4 x 0.08 mm ²
		Ambient conditions	
		Protection class	IP 67
		Operating temperature	-30 ... +50 °C

O200.GR.F-PV1Z.72NV/H006_BX15

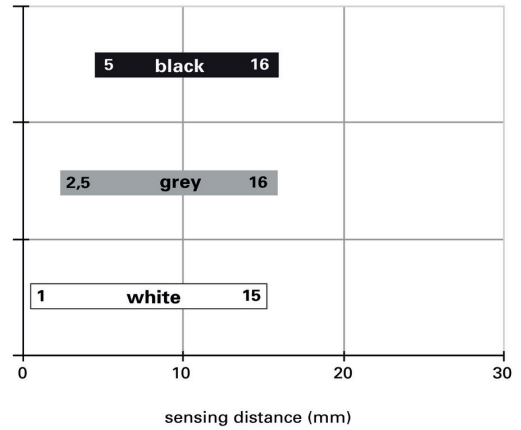
Diffuse sensors with background suppression - miniature

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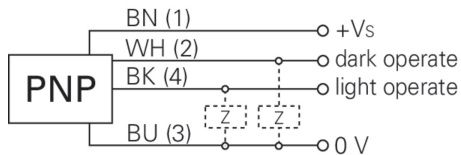
Dimension drawing



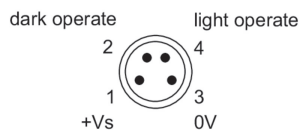
Sensing distance diagram



Connection diagram



Pin assignment



Beam characteristic (typically)

