

Overview

- Outstanding reliability and unrivalled immunity against ambient light
- Easy to adjust via line teach
- Intuitive Xpress Teach / 1-Step Teach method
- Robust housing with stainless steel spacer sleeves



Picture similar



Technical data

General data

Type	Background suppression
Sensing distance Tw	15 ... 80 mm
Sensing range Tb	7 ... 80 mm
Smallest object recognizable typ.	0.25 mm at 40 mm
Power on indication	LED green
Alignment / soiled lens indicator	Flashing output indicator
Output indicator	LED yellow
Sensing distance adjustment	External Teach-in / 1-Step Teach-in
Suppression of reciprocal influence	Yes
Alignment optical axis	< 1,5°

Light Source

Light source	Pulsed red LED
Wave length	644 nm

Electrical data

Response time / release time	< 1 ms
Voltage supply range +Vs	10 ... 30 VDC
Current consumption max. (no load)	20 mA (@ 30 VDC)

Electrical data

Current consumption typ.	16 mA (@ 24 VDC)
Voltage drop Vd	<2 VDC
Output function	Dark operate
Output circuit	Push-pull
Output current	50 mA
Short circuit protection	Yes
Reverse polarity protection	Yes

Mechanical data

Width / diameter	8 mm
Height / length	25.1 mm
Depth	14.1 mm
Design	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 mm ²

Ambient conditions

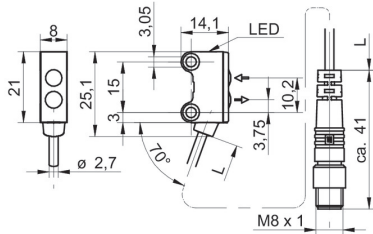
Protection class	IP 67
Operating temperature	-30 ... +50 °C

O200.GR-GD1E.72NV/T007

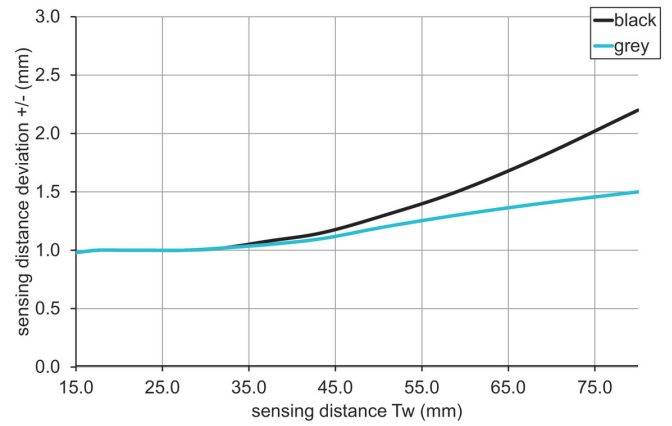
Diffuse sensors with background suppression - miniature

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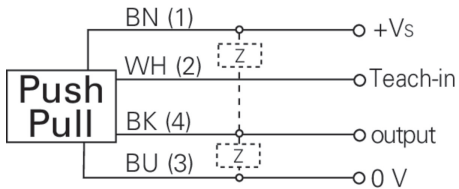
Dimension drawing



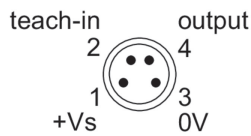
Sensing distance diagram



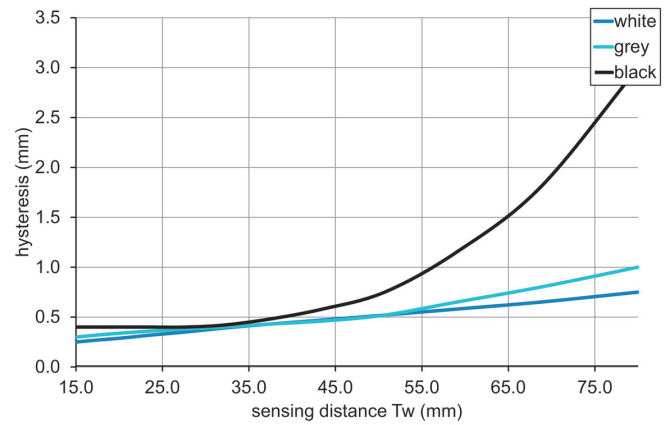
Connection diagram



Pin assignment



Hysteresis curve



Beam characteristic (typically)

