Baumer
Passion for Sensors

SmartReflect sensor

OT330.SN-PLPVT.72OV/0030_H006

Smart Reflect Light Barriers - for longer distances

Article number: 11737243

Overview

- SmartReflect - Safe barrier principle without reflector
- 2.5 m sensing range thanks to time of flight principle
- Manipulation-proof, simple teach-in via qTeach
- Infrared laser light source suitable for use in dusty or smoky environments
- Alignment Guide - visible, red light beam for aligning the infrared laser



Picture similar

Technical data

General data	
Type	Light barrier
Version	Time of Flight
Background position Sde	300 … 2500 mm
Scanning range Sa	90% ... 94% Sde
Temperature drift	<0,3 mm/K: <750 mm <0,04 % Sde/K: >750 mm
Power on indication	LED green
Output indicator	LED yellow
Sensing distance adjustment	qTeach
Suppression of reciprocal influence	Yes
Beam type	Point
Alignment optical axis	< 1,5°
Light Source	
Light source	Pulsed infrared laser diode
Laser class	1
Wave length	940 nm
Electrical data	
Response time / release time	< 50 ms (Standard Mode)
Voltage supply range +Vs	10 … 30 VDC
Current consumption max. (no load)	55 mA (@ 10 VDC)
Current consumption typ.	25 mA (@ 24 VDC)
Voltage drop Vd	<2.5 VDC

Electrical data	
Output function	Light operate, switchable
Output circuit	PNP complementary
Output current	100 mA
Short circuit protection	Yes
Reverse polarity protection	Yes
Mechanical data	
Width / diameter	11 mm
Height / length	32 mm
Depth	21 mm
Design	Rectangular
Mechanical mounting	Threaded sleeves M3 (brass)
Housing material	Plastic (ABS, ASA, PMMA)
Front (optics)	PMMA
Connection types	Flylead connector M12, L=300 mm
Cable characteristics	PVC / PVC 4 x 0.14 mm²
Ambient conditions	
Protection class	IP 67
Operating temperature	-25 … +55 °C
Storage temperature	-40 … +70 °C
Vibration (sinusoidal)	IEC 60068-2-6:2008 10 g at f = 10 - 2000 Hz, duration 150 min per axis
Shock (semi-sinusoidal)	IEC 60068-2-27:2009 50 g / 11 ms resp. 100 g / 6 ms, 10 jolts per axis and direction

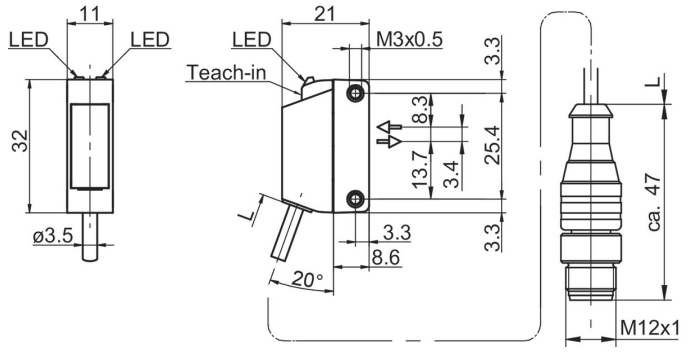
The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.
2026-07-10

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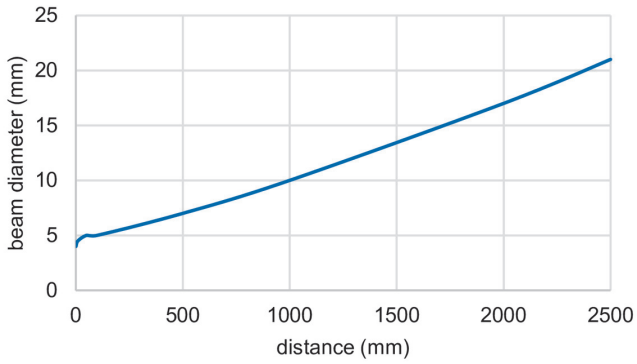
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Dimension drawing



Beam characteristic (typically)

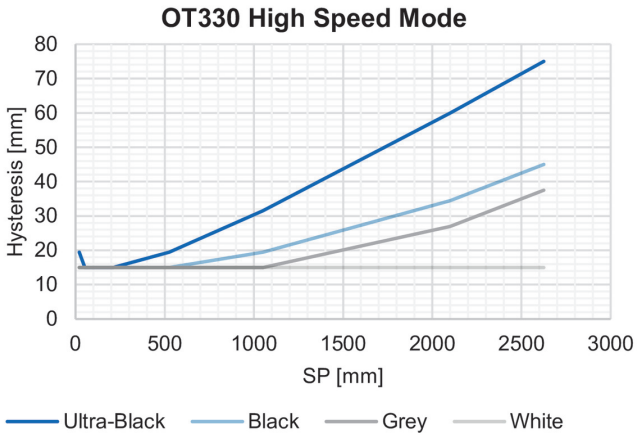


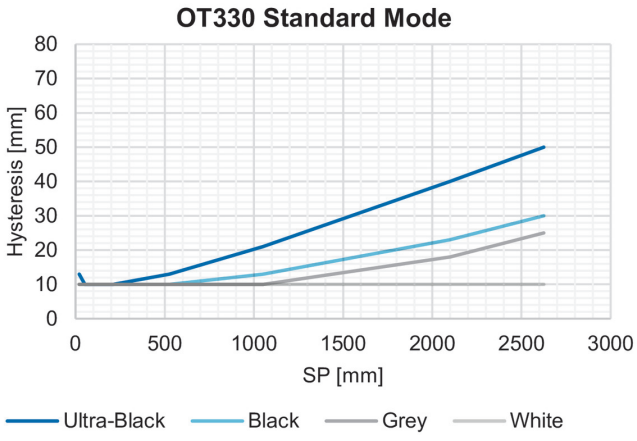
Laser warning

CLASS 1 LASER PRODUCT

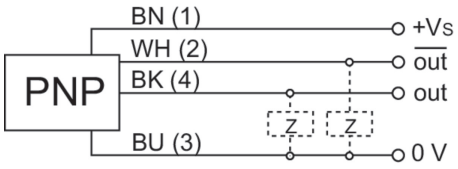
IEC 60825-1/2014
Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019

Hysteresis curve

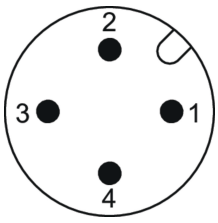




Connection diagram



Pin assignment



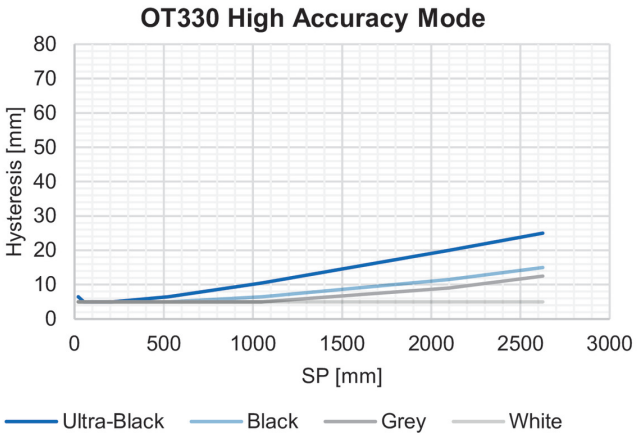
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