Distance sensors

OM30-L0350.HV.AIN

Performance sensor

Article number: 11232073

Overview

- Automatic adjustment of exposure time for precise measurements on changing materials
- High immunity to ambient light for reliable measurements regardless of ambient conditions
- Line beam shape for particularly robust measurement results on structured surfaces

Picture similar

Technical data

General data	
Type	Distance measuring
Measuring distance Sd	50 … 350 mm
Measuring range Mr	300 mm
Adjustment	Teach-in: button / external
Power on indication	LED green
Output indicator	LED red
Repeat accuracy	10 … 240 µm
Linearity error	± 0.14 % Mr , 50 ... 200 mm ± 0.18 % Mr , 50 ... 350 mm
Beam type	Line
Temperature drift	0,05 % Sde/K
Light Source	
Light source	Pulsed red laser diode
Wave length	660 nm
Laser class	2
Maximum pulse power	2 mW
Pulse duration	0.001 ... 1.2 ms
Pulse period	0.2 ... 3.4 ms
Electrical data	
Response delay	0.4 ms
Measuring frequency	5000 Hz
Voltage supply range +Vs	12 … 28 VDC
Current consumption max. (no load)	50 mA

Electrical data	
Output circuit	Analog
Output signal	4 ... 20 mA
Load resistance	< (+Vs - 9 V) / 0.02 A
Short circuit protection	Yes
Reverse polarity protection	Yes, Vs to GND
Mechanical data	
Width / diameter	13.6 mm
Height / length	49 mm
Depth	40.3 mm
Type	Rectangular, front view
Housing material	Die-cast zinc
Front (optics)	Glass
Connection types	Connector M8 4 pin
Weight	67 g
Ambient conditions	
Ambient light immunity	< 100 kLux
Protection class	IP 67
Operating temperature	-10 … +50 °C
Storage temperature	-20 … +60 °C
Vibration (sinusoidal)	IEC 60068-2-6:2008 1 mm p-p at f = 10 - 55 Hz, duration 5 min per axis 30 min endurance at f = 55 Hz per axis
Shock (semi-sinusoidal)	IEC 60068-2-27:2009 30 g / 11 ms, 6 jolts per axis and direction

Remarks

- Measurement with Baumer standardized measuring equipment and targets (Measurement on 90% remission (white)).

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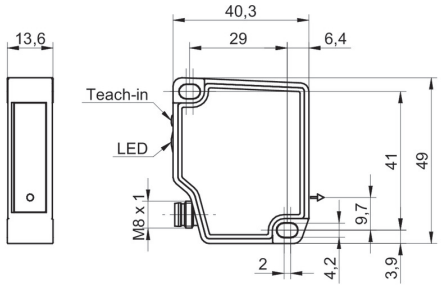
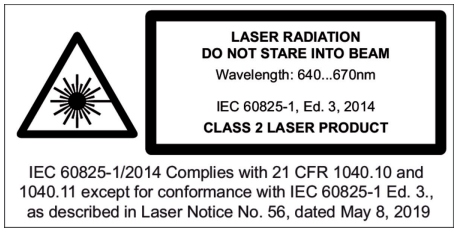
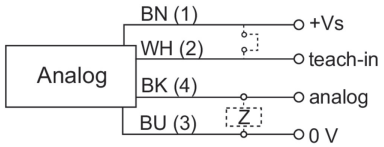
Dimension drawing



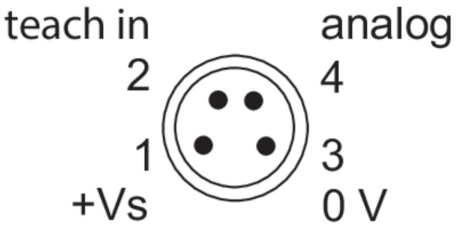
Laser warning



Connection diagram



Pin assignment



Beam characteristic (typically)