Distance sensors

OM60-P0450.HH.TXFV

Article number: 11726795

Overview

- Automatic adjustment of the exposure time for precise measurements on changing materials
- High ambient light immunity for reliable measurements regardless of the ambient conditions
- Spot beam shape for precise measurement
- Display with Live Monitor function

Picture similar

Technical data

General data	
Type	Distance measuring
Measuring distance Sd	160 … 450 mm
Measuring range Mr	290 mm
Adjustment	RS485 Display External
Power on indication	LED green
Output indicator	LED yellow
Repeat accuracy	5 µm
Linearity error	± 0.086 % Mr
Linearity	± 250 µm
Beam type	Point
Temperature drift	± 0.006 % Sde/K
Light Source	
Light source	Pulsed red laser diode
Wave length	660 nm
Laser class	1
Maximum pulse power	0.6 mW
Pulse duration	0.02 ... 0.9 ms
Pulse period	0.5 ... 2 ms
Electrical data	
Response delay	1 ms
Measuring frequency	2000 Hz
Voltage supply range +Vs	18 … 30 VDC
Current consumption max. (no load)	100 mA

Electrical data	
Output circuit	RS485
Short circuit protection	Yes
Reverse polarity protection	Yes
Communication interface	
Interface	RS485
Baud rate	115200, adjustable
Protocol	Modbus RTU
Mechanical data	
Width / diameter	27.2 mm
Height / length	66 mm
Depth	57 mm
Design	Rectangular, front view
Housing material	Plastic (PBT-ASA)
Front (optics)	PMMA
Connection types	Flylead connector M12 5 pin, L=300 mm
Weight	130 g
Ambient conditions	
Ambient light immunity	< 15 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

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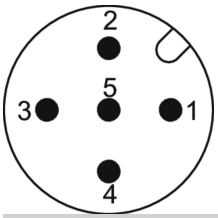
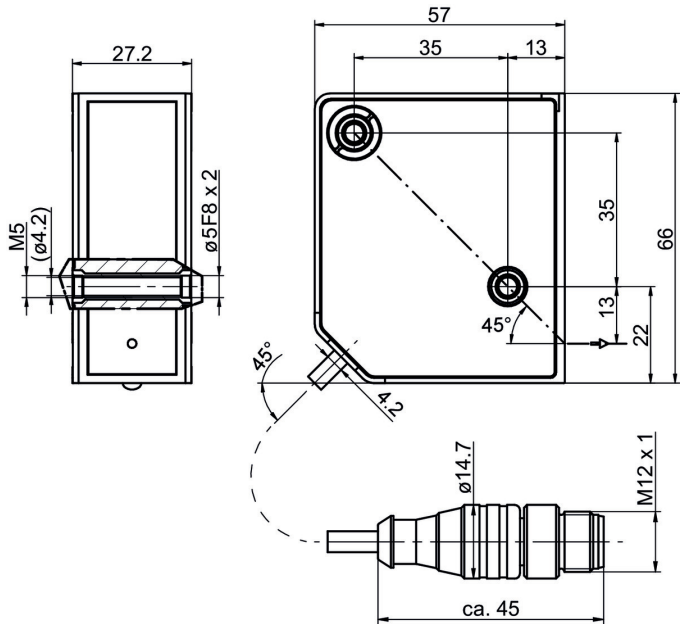
Remarks

- Measurement with Baumer standardized measuring equipment and targets (Measurement on 90% remission (white)). Values of repeat accuracy apply to a measurement with filter setting (Median: 21, Average: 512).

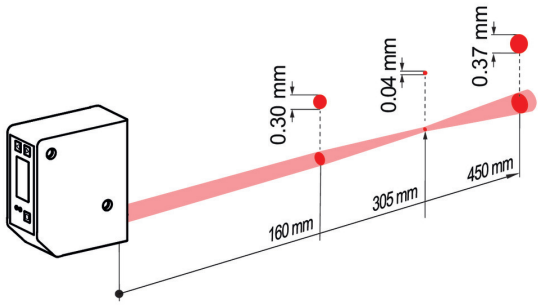
Pin assignment



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

Connection diagram