# OM60-P0135.HH.YUFV

Article number: 11726787

## 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



**Electrical data** 

**Ambient conditions** Ambient light immunity

Operating temperature Storage temperature

Protection class

Picture similar







Technical data	
General data	
Type	Distance measuring
Measuring distance Sd	65 135 mm
Measuring range Mr	70 mm
Adjustment	IO-Link Display External
Power on indication	LED green
Output indicator	LED yellow
Repeat accuracy	0.7 μm
Linearity error	± 0.04 % Mr
Linearity	± 30 µm
Beam type	Point
Temperature drift	± 0.004 % Sde/K
Light Source	
Light source	Pulsed red laser diode
Wave length	660 nm
Laser class	1
Maximum pulse power	0.3 mW
Pulse duration	0.02 1 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
Output circuit	Analog and digital
Output signal	0 10 VDC / 0 5 VDC
Load resistance	> 100 kOhm
Short circuit protection	Yes

Reverse polarity protection	Yes
Communication interface	
Interface	IO-Link V1.1.3
IO-Link port type	Class A
Baud rate	230.4 kBaud (COM 3)
Cycle time	≥ 1 ms
Process data length	48 Bit
Process data structure	Smart Sensor Profile - DMS PDI48.INT32_INT8 Bit 0 = SSC1 Bit 1 = SSC2 Bit 2 = quality Bit 3 = alarm Bit 16-47 = 32 Bit measurement
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

< 15 kLux

-20 ... +60 °C

IP 67 -10 ... +50 °C



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#### **Technical data**

#### **Ambient conditions**

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

#### **Ambient conditions**

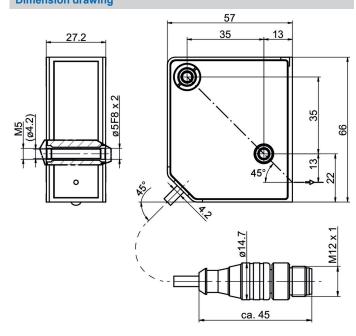
Shock (semi-sinusoidal) IEC 60068-2-27:2009

30 g / 11 ms, 6 jolts per axis and direction

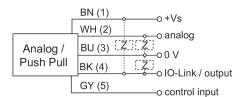
### Remarks

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

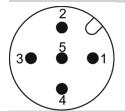
## **Dimension drawing**



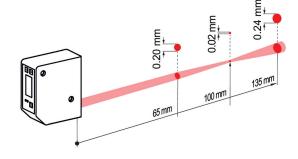
## **Connection diagram**



## Pin assignment



## 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