Baumer
Passion for Sensors

Photoelectric distance sensor

O500.DR-GM1J.72O

Article number: 11233555

Overview

- distance measuring
- 60 … 600 mm
- pulsed PinPoint LED
- push-pull
- Teach-in and IO-Link
- connector M12 4 pin
- -25 … 60 °C
- IP 67



Picture similar

Technical data

General data	
Type	Distance measuring
Version	IO-Link measuring
Measuring distance Sd	60 … 600 mm
Adjustment	Teach-in and IO-Link
Power on indication	LED green
Light indicator	LED yellow
Resolution	0.5 … 6 mm
Linearity error	± 3 … 20 mm
Beam type	Point
Suppression of reciprocal influence	Yes
Alignment optical axis	< 1°
Temperature drift	< 0.2 % Sde/K
Light Source	
Light source	Pulsed PinPoint LED
Wave length	630 nm
Electrical data	
Response time / release time	< 1 ms
Voltage supply range +Vs	10 … 30 VDC
Current consumption max. (no load)	40 mA
Voltage drop Vd	<3 VDC

Electrical data	
Output circuit	Push-pull
Output current	100 mA
Short circuit protection	Yes
Reverse polarity protection	Yes
Communication interface	
Interface	IO-Link V1.1
Baud rate	38.4 kBaud (COM 2)
Cycle time	≥ 2.7 ms
Process data length	3 Byte
Process data structure	Bit 0 = BDC1 Bit 2 = quality Bit 3 = alarm Bit 8-23 = 16 Bit measurement
Mechanical data	
Width / diameter	18 mm
Height / length	45 mm
Depth	32 mm
Design	Rectangular
Housing material	Plastic (ASA, PMMA)
Front (optics)	PMMA
Connection types	Connector M12 4 pin
Ambient conditions	
Protection class	IP 67
Operating temperature	-25 … +60 °C

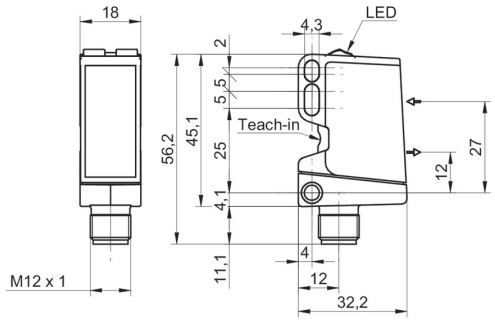
2026-08-12 EN/20170206 Design and specifications subject to change without notice

Photoelectric distance sensor

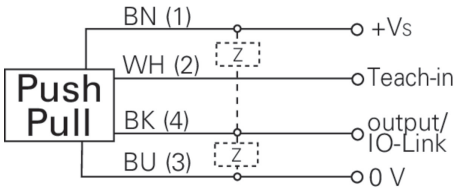
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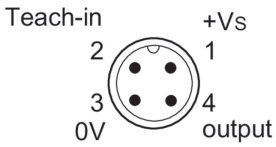
Dimension drawing



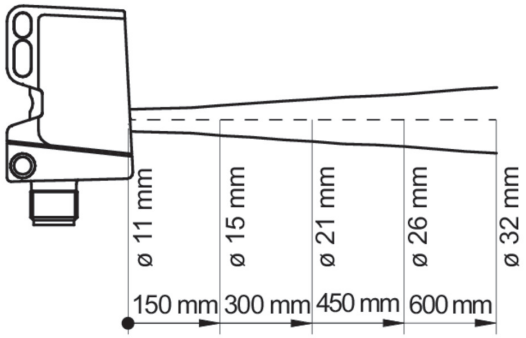
Connection diagram



Pin assignment



Beam characteristic (typically)



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Accessories

Mounting accessories	
11099942	Sensofix O500/U500
11092246	Mounting bracket O500/U500
11111164	Mounting bracket O500/U500 - Retrofit
11707685	Mounting rod with mounting plate holder 200 mm
11707686	Mounting rod with mounting plate holder 300 mm
11707688	Mounting rod 200 mm
11707697	Mounting rod 250 mm
11707698	Mounting rod with mounting plate holder 250 mm
11707687	Mounting rod 300 mm
11707699	Mounting plate series 500 and ø18 mm
11707702	Mounting base
11707703	Two-way connector

Peripherals	
11261571	CM50I.PN-11261571
11261572	CM50I.EC-11261572
11261573	CM50I.EIP-11261573
11084376	ZTEST-ALL.ANALOG
11234828	USB-C IO-Link Master

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