Short range distance sensors (displacement) OD Max

OD30-05T1







 Model Name
 > OD30-05T1

 Part No.
 > 6028959



At a glance

- Several measurement ranges from 24 ... 26 mm up to 250 mm ... 450 mm
- · CMOS receiving element for measurement independent of surface
- High measurement frequency and high linearity
- · Variety of selectable integrated calculations based on values from two sensors
- · Laser technology for precise measurement or detection of very small objects
- · Several output options

Your benefits

- Minimum machine downtime due to its reliability on any surface, regardless of brightness or color
- Highly accurate measurement, even during the production process, ensures high product quality
- High measuring frequency of 10 kHz increases processing speeds and reduces cycle times
- Reduce the cost to change your process by making a reference measurement using two sensors
- · Comparatively low investment costs for challenging measuring tasks
- An easy-to- read LC display and simple push-button keypad programming ensures simple setup and servicing
- Reduced material costs, when using the distance sensors to control costrelevant production processes





Features

Performance

System part:

Measuring range: Resolution ¹⁾: Repeatability ²⁾: Linearity ³⁾: Response time ⁴⁾: Measuring frequency: Light source: Typ. light spot size (distance): Note: Laser class: 25 mm ... 35 mm, 6 % ... 90 % remission 1 μm 3 μm ± 10 μm 0.5 ms 10 kHz Laser, red 30 μm x 100 μm (30 mm) Requires AOD-x 2 (EN 60825-1)⁵⁾

Sensor head

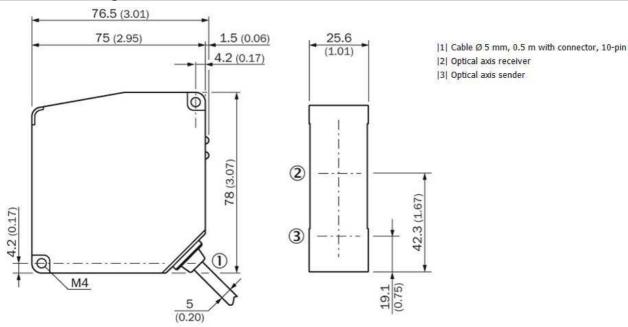
¹⁾ Measurement on 90 % remission (ceramic, white), for OD25-x measurement on mirror; averaging set to: 256 ²⁾ Measurement on 90 % remission (ceramic, white), for OD25-x measurement on mirror; averaging set to: 256; constant ambient conditions ³⁾ Measurement on 90 % remission (ceramic, white), for OD5-25x measurement on mirror ⁴⁾ Automatic sensitivity adjustment $\leq 2 \text{ ms}^{5}$ Wavelength: 650 nm, max. output: 1 mW

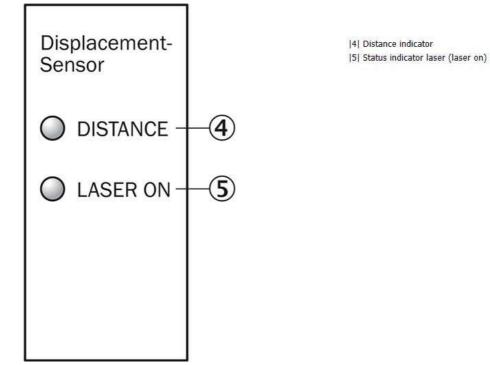
Mechanics/electronics	
Electrical connection ¹⁾ : ²⁾ :	0.5 m cable with connector
Warm-up time:	≤ 5 min
Indication:	LEDs, 1.4" color-display on controller unit
Weight ³⁾ :	250 g
Housing material:	Aluminum housing with glass lens
1) Extendable by cable to max. 10 m ²⁾ Sensor must be connected as a sensor must be connected	ected to controller unit ³⁾ Inclusive 0.5 m cable

Ambient data

Enclosure rating:	IP 67
Protection class:	III
Ambient temperature:	Operation: -10 45 °C, Storage: -20 60 °C
Temperature drift:	± 0.01 % FS/K (FS = Full Scale = Measuring range of sensor)
Typ. ambient light safety:	Artificial light: ≤ 3,000 lx Sunlight: ≤ 10,000 lx
Vibration resistance:	10 Hz 55 Hz (amplitude 1.5 mm, x-, y-, z-axis 2 hours each)
Shock resistance:	50 G (x-, y-, z-axis 3 times each)
Relative humidity (not condensing):	35 % 85 %

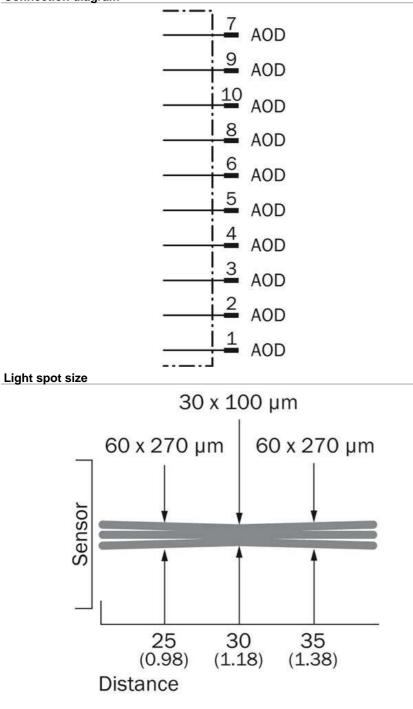
Dimensional drawing





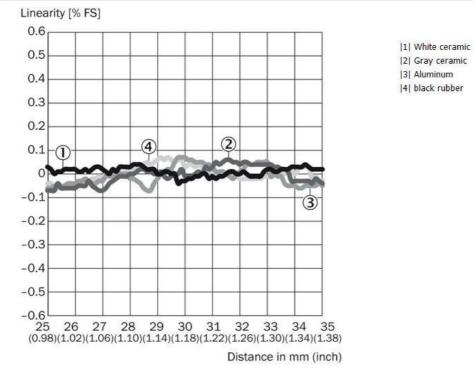
Connection type





All dimensions in mm (inch)

Linearity



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