

OD350-100T1







Short range distance sensors (displacement) OD Max

Model Name > OD350-100T1 Part No. > 6028957



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

System part:

PerformanceMeasuring range: $250 \text{ mm} \dots 450 \text{ mm}, 6 \% \dots 90 \% \text{ remission}$ Resolution: $50 \mu \text{m} \frac{1)}{2}$

Repeatability: $150 \ \mu m^2$ $150 \ \mu m^3$ Linearity: $\pm 200 \ \mu m^3$ Response time ⁴): $0.5 \ ms$ Measuring frequency: $10 \ kHz$ Light source: Laser, red

Typ. light spot size (distance): 300 µm x 700 µm (350 mm)

Note: Requires AOD-x Laser class: 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 < 2 ms 5) Wavelength: 650 nm, max. output: 1 mW

Mechanics/electronics

Connection type:: 0.5 m cable with connector 1) 2)

Warm-up time: ≤ 5 min

Indication: LEDs, 1.4" color-display on controller unit

Weight: 250 g

Housing material: Aluminum housing with glass lens

Ambient data

Enclosure rating: IP 67
Protection class: III

Ambient temperature: Operation: -10 ... 45 °C, Storage: -20 ... 60 °C

Temperature drift: $\pm 0.01 \%$ FS/K (FS = Full Scale = Measuring range of sensor)

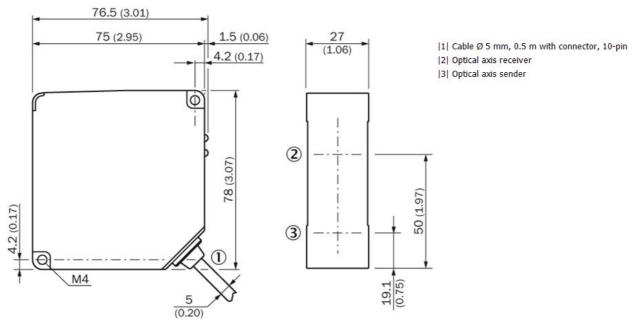
Typ. ambient light safety: Artificial light: ≤ 3,000 lx Sunlight: ≤ 10,000 lx

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)

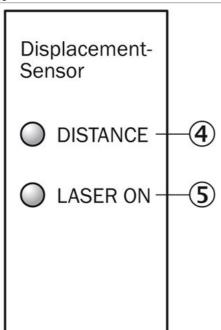
Relative humidity (not condensing): 35 % ... 85 %

Dimensional drawing



¹⁾ Extendable by cable to max. 10 m $^{2)}$ Sensor must be connected to controller unit $^{3)}$ Inclusive 0.5 m cable

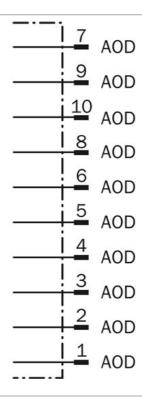
Adjustment possible



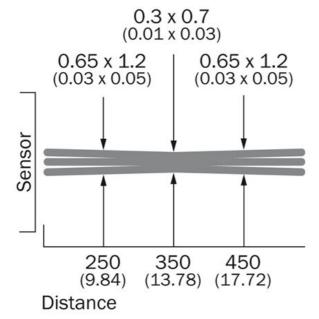
- |4| Distance indicator
- |5| Status indicator laser (laser on)

Connection type



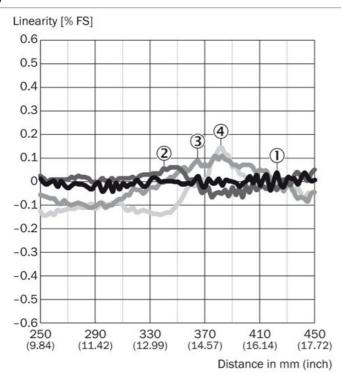


Light spot size



All dimensions in mm (inch)

Linearity



- |1| White ceramic
- |2| Gray ceramic
- |3| Aluminum
- |4| black rubber

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