

## Short Range Distance Sensors (Displacement) OD Max

OD-25-01T1



Nazwa modelu > **OD-25-01T1**

Numer części > **6030977**



#### At a glance

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

#### Your benefits

- Minimum machine downtime due to its reliability on any surface, regardless of gloss 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 cost-relevant production processes



#### !Performance!

|                                  |                                                                                               |
|----------------------------------|-----------------------------------------------------------------------------------------------|
| Measuring range 6 ... 90 %:      | 24 mm ... 26 mm                                                                               |
| Resolution 6 ... 90 %:           | 0,1 $\mu\text{m}$ <sup>1)</sup>                                                               |
| Repeatability 6 ... 90%:         | 0,3 $\mu\text{m}$ <sup>2)</sup>                                                               |
| Accuracy on glass:               | $\pm 2 \mu\text{m}$ For parallel alignment of the active sensor surface to the object surface |
| Min. response time:              | 0,5 ms <sup>3)</sup>                                                                          |
| Measuring frequency:             | 10 kHz                                                                                        |
| Nadajnik światła:                | Red laser diode class 1 (II) <sup>4)</sup>                                                    |
| Typ. light spot size (distance): | 25 $\mu\text{m}$ x 35 $\mu\text{m}$ <sup>5)</sup>                                             |
| Część systemowa:                 | OD Max sensor head (used in combination with AODG-P/N1)                                       |
| Note:                            | Interfaces depend on used controller (see associated products)                                |

<sup>1)</sup> At set averaging 256 / 4096 (OD25); <sup>2)</sup> At set averaging 256 / 4096 (OD25) and constant conditions; <sup>3)</sup> Automatic sensitivity adjustment  $\leq 2$  ms; <sup>4)</sup> ; <sup>5)</sup> At 25 mm;

### **!Mechanics/electronics!**

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|                          |                                             |
|--------------------------|---------------------------------------------|
| Warm up time:            | ≤ 5 min                                     |
| Typ. weight excl. cable: | 250 g                                       |
| Housing material:        | Aluminum and glass                          |
| Connection type:         | 0.5 m pig tail with connector <sup>1)</sup> |
| Indication:              | LEDs                                        |

<sup>1)</sup> ;

### **!Ambient data!**

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|                                      |                                                         |
|--------------------------------------|---------------------------------------------------------|
| Rodzaj zabezpieczenia:               | IP 67                                                   |
| VDE protection class:                | III                                                     |
| Ambient temperature:                 | Operation: -10 ... 40 °C<br>Storage area: -20 ... 60 °C |
| Max. rel. humidity (not condensing): | 0,35 % ... 0,85 %                                       |
| Ambient light safety:                | artificial light: ≥3.000 lx<br>Sunlight: ≥10.000 lx     |
| Vibration resistance:                | 10 Hz ... 55 Hz, Amplitude 1.5 mm, 2 h for axes XYZ     |
| Shock resistance:                    | 50 G                                                    |

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