

Short Range Distance Sensors (Displacement) OD Max

OD30-05T1



Nazwa modelu > **OD30-05T1**

Numer części > **6028959**



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 %:	25 mm ... 35 mm
Resolution 6 ... 90 %:	1 μ m ¹⁾
Repeatability 6 ... 90%:	3 μ m ²⁾
Min. response time:	0,5 ms ⁴⁾
Measuring frequency:	10 kHz
Nadajnik światła:	Red laser diode class 2 (II) ⁵⁾
Typ. light spot size (distance):	30 μ m x 100 μ m ⁶⁾
Część systemowa:	OD Max sensor head (used in combination with AOD-P/N1)
Note:	Interfaces depend on used controller (see associated products)
Dokładność:	$\pm$ 10 μ m ³⁾

¹⁾ At set averaging 256 / 4096 (OD25); ²⁾ At set averaging 256 / 4096 (OD25) and constant conditions; ³⁾ Equivalent to 0.1 % MS, MS= measuring span: OD25... = 2 mm, OD30... = 10 mm, OD85... = 40 mm, OD350... = 200 mm; ⁴⁾ Automatic sensitivity adjustment $\leq$ 2 ms; ⁵⁾ ; ⁶⁾ At 30 mm;

!Mechanics/electronics!

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 ¹⁾
Indication:	LEDs

¹⁾ ;

!Ambient data!

Rodzaj zabezpieczenia:	IP 67
VDE protection class:	III
Ambient temperature:	Operation: -10 ... 40 °C Storage area: -20 ... 60 °C
Max. rel. humidity (not condensing):	0,35 % ... 0,85 %
Ambient light safety:	artificial light: ≥3.000 lx 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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