

ODS 505

Optical Displacement Sensor using advanced laser technique, a line scan camera and digital signal processing algorithms.



Specifications

Measurement data

Measuring range	450 - 550 mm
Centre distance	500 mm
Resolution	0.01 mm
Linearity	± 0.05 % of FS
Reproducibility	± Resolution
Updating frequency	1000 or 2000 Hz
Temperature deviation	app. ± 0.03% of FS/°C
Light source	visible laser (670nm)
Size of light spot	app. Ø 2 mm
Laser protection class	IEC 2

Environment data

Operating temperature	0 - +45 °C
Storage temperature	-20 - +70 °C
Humidity (non condensing)	Max 90 % RH
Degree of protection	IEC IP64

Physical data

Dimensions WxHxD	230x70x200 mm
Weight exc. Cable	3.6 kg
Cable length	2.5 m
Housing	Steel/aluminium/glass

Output data

Current output	4-20 mA
Digital output	RS232C or RS422/485
Baud rate	38400
Option: Voltage output	1-9 VDC

Electrical data

Supply voltage	24 VDC ± 10 %
Power consumption, max	4.5 W

Specifications subject to change without notice

Dimensions

