

ODS Blue-Line 165/215/265/350

Laser / Optical Distance Meter

Using Advanced Laser Technique, Line Scan Camera and Digital Signal Processing. Laser OFF and ON and Output Frequency can be controlled via serial interface. The sensor can be programmed to output a moving averaged value, calculated over a stored number of measuring points with suppression of zero/error values.



Specifications

Measurement data

Measuring range 100 / 200 / 300 / 400 mm
Midpoint distance 165 / 215 / 265 / 350 mm
Resolution 0.01 / 0.04 / 0.06 / 0.10 mm
Static measurement on white paper at 1 kHz. Can be improved by sensor averaging
Linearity ± 0.1 / ± 0.2 / ± 0.3 / ± 0.4 mm
Measuring frequency 1000 Hz
Output frequency SW selectable 10-1000 Hz
Temperature deviation $\pm 0.03\%$ of FS / °C
Light source Visible laser (650 nm)
Size of light spot $\varnothing 1$ / $1\frac{1}{2}$ / 2 / 3 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 EC IP65

Output data

Digital output Serial RS232C interface
Baud rate 38400
Analog / Current output 4-20 mA
Centre indication Green LED
Error indication Red LED

Electrical data

Supply voltage 22 - 36 VDC
Power consumption < 4.5 W

Physical data

Dimensions 142 x 155 x 52 mm
Weight 1.600 g
Housing Aluminium

November 2009; Specifications subject to change without notice.

Dimensions

