

ODS Blue-Line 165 / 215 / 265

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 mm
Midpoint distance	165 / 215 / 265 mm
Resolution	0.01 / 0.05 / 0.08 mm
Static measurement on white paper at 1 kHz Can be improved by sensor averaging	
Linearity	$\pm 0.1 / \pm 0.2 / \pm 0.3$ mm
Measuring frequency	1000 Hz
Output frequency SW selectable	10-1000 Hz
Temperature deviation	$\pm 0.03\%$ of FS / °C
Light source	Visible laser (655/670 nm)
Size of light spot	$\varnothing 1 / 2 / 2$ 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	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

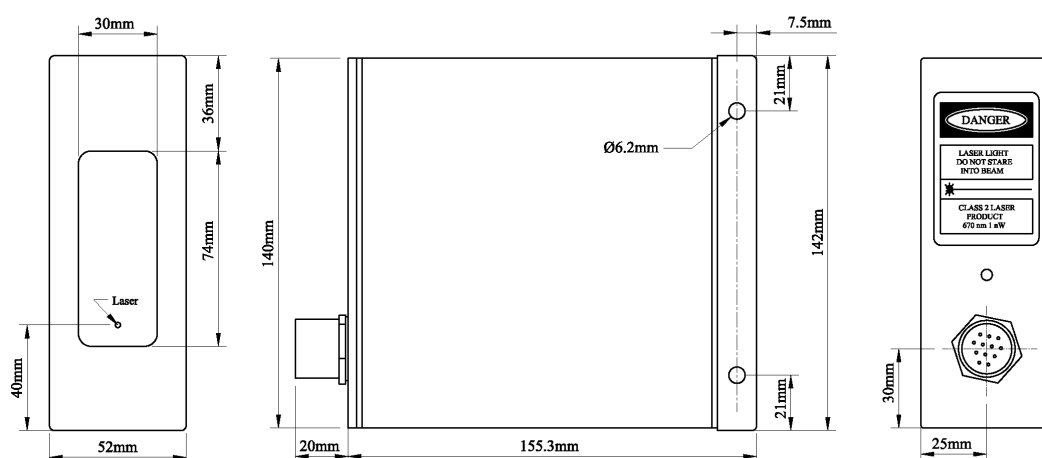
Supply voltage	24 VDC $\pm 10\%$
Power consumption	< 4.5 W

Physical data

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

January 2006; Specifications subject to change without notice.

Dimensions



DSE - Danish Sensor Engineering ApS,
Columbusvej 3 • DK-2860 Søborg • Denmark •
Tel.: +45 39 66 71 44 • Fax.: +45 39 66 71 45 •
e-mail: dse@sensor.dk