Laser Distance Sensor LDS30 – Measuring range up to 250m





Description

The LDS30 laser distance sensor is dedicated for general ranging applications that require instantly triggered and fast data acquisition. The sensor provides measurement rates as fast as 30 kHz within a total measurement range of up to 250 m with an absolute measurement accuracy in the centimeter range. It operates fully eye safe at a wavelength of 905 nm The LDS30 sensor is optimized for easy system integration. It is fitted into a ready-to-use IP67 proof housing. The LDS30 is shockproof and suitable for applications that impose high impact on the sensor, for

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Benefits

- Compact, lightweight design
- High repetition rate
- Long measuring range
- Eye safe operation
- IP67 proof housing
- Industrial standard interfaces
- Digital and analog output
- Easy system integration

Applications

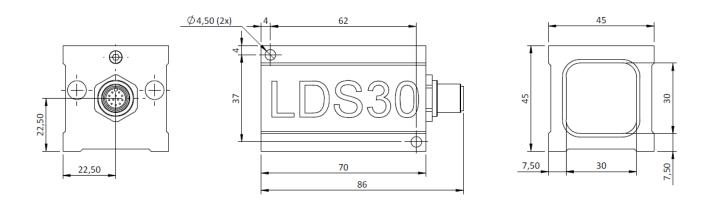
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Technical data:

Туре	LDS30		Module LDS30
Total measuring range		0,2m 250m	
Typical measuring range for special targets (e.g. Scotchlite Cube 3000x) • for target reflectivity 10% 1		250m 30m	
Measuring accuracy (for single measurement, 1σ) Absolute accuracy • Reproducibility		± 5 cm ± 2 cm	
Measured value resolution		1 cm	
Maximum measuring rate binary data output decimal or binary data output		30kHz 16kHz	
Laser classification	Laser	class 1, EN 60825-1 :2007	
Wavelength		905 nm	
Laser divergence		3 mrad x 1 mrad	
Serial data interface	RS232 ; RS422		RS422 ; CMOS
Switching output	2x ,,Hight side" , up to 0,2A		/
Analog output	4 20 mA		/
Power supply	10 Vdc 30 Vdc		6,5 Vdc 7,0 Vdc
Power consumption (max.)		3W	
Operating temperature		-20 °C +50 °C	
Humidity	10%	90% - not condensing	
Internal protection class	IP67		/
Shock / vibration	DIN ISO 9022-3		
EMC	EN 61326-1		
Dimensions	86 mm x 45 mm x 45mm		86 mm x 45 mm x 45mm
Weight	ca. 125 g		ca. 50 g

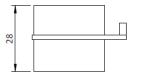


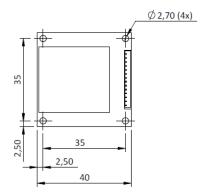
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LDS30 Module







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