# 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

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, f example in industrial environments.

#### **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**

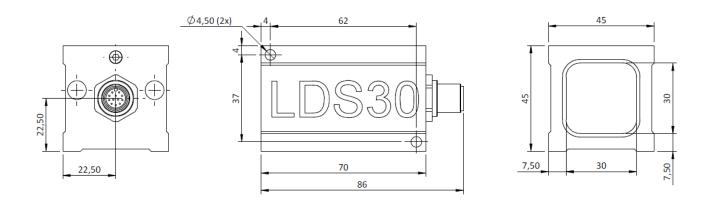
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## Technical data:

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

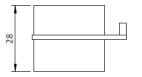


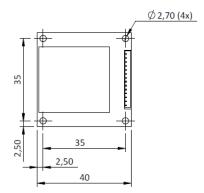
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LDS30 Module







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