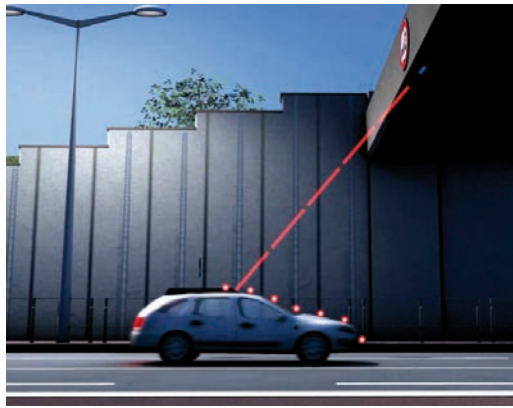


Laser Distance Sensor LAM34

Fast & compact rangefinder for system integration



Description and Features

The LAM34 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 eyesafe at a wavelength of 905 nm.

The LAM34 sensor is optimized for easy system integration. It is fitted into a ready-to-use IP67 proof housing. The LAM34 is shockproof and suitable for applications that impose high impact on the sensor, for example in industrial environments.

Benefits

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

Applications

- Distance measurement & object detection
- Proximity sensing & warning
- 2D and 3D scanning applications
- Industrial automation

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Specifications

Type	LAM34
Total measuring range	0.2 m ... 250 m
Typical measuring range for special targets (e.g. Scotchlite Cube 3000x) for target reflectivity 10%	10 m ... 250 m 0.2 m ... 30 m
Measuring accuracy (for single measurement, σ)	
Absolute accuracy	± 5 cm
Reproducibility	± 2 cm
Measured value resolution	1 mm
Maximum measuring frequency	
binary data output	30 kHz
decimal or binary data output	15 kHz
Laser classification	Laser Class 1, EN 60825-1:2007
Wavelength	905 nm
Laser divergence	3 mrad \times 1 mrad
Serial data interface	RS232, RS422
Switching output	2x „high side“, up to 0.2 A
Analog output	4 mA ... 20 mA
Power supply	10 VDC ... 30 VDC
Power consumption (max.)	3 W
Operating temperature	-20°C ... +50 °C
Humidity	10% ... 90%, not condensing
Internal protection class	IP 67
Shock / vibration	DIN ISO 9022-3
EMC	EN 61326-1
Dimensions	86 mm \times 45 mm \times 45 mm (L \times W \times H, incl. connectø
Weight	approx. 125 g
*1 Measuring range for natural, diffuse reflecting surfaces, depending on target reflectivity, stray light and environmental conditions.	

Dimensions LAM34

