

RIEGL LD90-3VHS-FLP-GF First & Last Pulse distance meter

Laser Distance Meter for use with or without reflectors which, because of its long-range, and its "First & Last Pulse"¹⁾ facility, is especially well suited for scanner applications.

LD90-3100VHS-FLP-GF

equipped with optical head MK36(-Z65)²⁾:

Very High-Speed, highly accurate distance meter for scanner applications.

Measuring range depending on the reflection coefficient ρ of the target
good, diffusely reflecting targets, $\rho \geq 80\%$ 2m up to 150 m³⁾
bad, diffusely reflecting targets, $\rho \geq 10\%$ 5 m up to 50 m³⁾
Reflecting foil⁴⁾ or plastic 10 m up to 350 m @ 25mm resolution
cat's-eye reflectors 10 m up to 700 m @ 50mm resolution

Minimum distance between two targets, typically 5 m

Measurement accuracy⁵⁾ typically ± 25 mm
Measurement resolution (selectable) 25 mm or 50 mm
Measurement rate 2000 Hz
Laser wavelength typ. 0.9 μm (near infrared)
Beam divergence⁶⁾ 3.2 mrad

Laser product classification according to IEC60825-1:2007

The following clause applies for instruments delivered into the United States:

Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.



Interface RS422 serial interface, 115.2 kBd, asynchronous

- 1) First, Last, or First&Last Target alternatively selectable
- 2) glass-fiber cable length max. 4 m
- 3) Typical values for average conditions. In bright sunlight, the operational range is considerably shorter than under an overcast sky.
- 4) reflecting foil 3M DG4090 or equivalent, minimum dimensions 0.45 x 0.45 m²
- 5) standard deviation, plus distance depending error 20 ppm
- 6) 1 mrad corresponds to 10 cm increase of beamwidth per 100 m of distance

General technical data and dimensions as given in our general data sheet LD90-3GF series.

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Laser Distance Meter for use with or without reflectors which, because of its long-range, and its "First & Last Pulse"¹⁾ facility, is especially well suited for scanner applications.

LD90-3300VHS-FLP-GF

equipped with optical head MK42²⁾:

Very High-Speed
rangefinder module
for long range scanner
applications.

Measuring range	depending on the reflection coefficient ρ of the target
good, diffusely reflecting targets, $\rho \geq 80\%$	5 m up to 300 m ³⁾
bad, diffusely reflecting targets, $\rho \geq 10\%$	5 m up to 100 m ³⁾
Reflecting foil ⁴⁾ or plastic	10 m up to 700 m @ 50mm resolution
cat's-eye reflectors	10 m up to 350 m @ 25mm resolution

Minimum distance between two targets, typically 5 m

Measurement accuracy ⁵⁾	typically ± 50 mm
Measurement resolution (selectable)	25 mm or 50 mm
Measurement rate	2000 Hz
Laser wavelength	typ. $0.9 \mu\text{m}$ (near infrared)
Beam divergence ⁶⁾	approx. 4.7 mrad

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Information contained herein is believed to be accurate and reliable. However, no responsibility is assumed by RIEGL for its use. Technical data are subject to change without notice. Data sheet RIEGL LD90-3VHS-FLP-GF, 25/03/2010



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