RIEGL LD90-3200HiP "High Penetration" level meter

LD90-3200HiP

Laser Distance Meter for use with or without reflectors which, because of its "**Hi**gh **P**enetration" facility under conditions of bad visibility, is especially well suited for level measurements in large silos, distance measurement on cranes, etc. 1)

Measuring range depending on the reflection coefficient **ρ** of the target 2)					
good, diffusely reflecting targets, **ρ** ≥80%	up to 400 m				
bad, diffusely reflecting targets, **ρ** ≥10%	up to 150 m				
Reflecting foil 3) or plastic cat´s-eye reflectors	up to 2000 m				
Minimum distance 4)	1 m				
Accuracy 5) 6)	typically ±25 mm, in the worst case ±75 mm				
Resolution (mm)	2 mm				
Measuring time (s) 7)	0.3	0.5	1	2	
Statistical deviation (mm) 8)	±20	±15	±10	±7	
Divergence of the infrared measuring beam 9)	1.6 mrad x 0.2 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.

Data interface	RS232 & RS422 (selectable), baud rate between 300 Bd and 38.4 kBd

1) last, first, or strongest target return selectable
2) Typical values for average conditions. In bright sunlight, the operational range is considerably shorter than under an overcast sky. At dawn or at night the range is even higher.
3) reflecting foil 3M680 or equivalent, dimensions ≥ 0.45 x 0.45 m²
4) minimum distance 5 m for full accuracy with retroreflecting targets
5) standard deviation, plus distance depending error ≤20 ppm
6) ≥5 min after power up
7) adjustable via RS232/RS422 or self-adapting
8) depending on measuring time
9) 1 mrad corresponds to 10 cm beamwidth per 100 m of distance

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

Data sheet *RIEGL* LD90-3200HiP, 25/03/2010

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