

Application	Electronics unit type	Recommended optical head	Range reflectorless	Range with retroreflector	Accuracy, typically	Update rate, selectable	RS232 & RS422	RS422 high speed	ECP	4-20 mA current output *	0-10 V voltage output *	2xPNP switching output *	data interface
General purpose distance sensor	LD90-3100HS-GF	MK36	100 m	>1000 m	±15 mm	1 ÷ 200 Hz	•	•	•	•	•	•	•
	LD90-3100HA-GF	MK36	100 m	>1000 m	±10 mm	0.5 ÷ 100 Hz	•	•	•	•	•	•	•
Long range ship docking sensor, Laser altimeter	LD90-3300-GF	MK42(-Z80)	300 m	>1000 m	±50 mm	0.5 ÷ 100 Hz	•	•	•	•	•	•	•
		MK56-Z150	400 m	>1000 m	±50 mm	0.5 ÷ 100 Hz	•	•	•	•	•	•	•
		MK75-Z210	600 m	>1000 m	±50 mm	0.5 ÷ 100 Hz	•	•	•	•	•	•	•
Very High-Speed distance sensor	LD90-3100VHS-FLP-GF	MK36	150 m	700 m	±25 mm	2000 Hz	•	•					
	LD90-3300VHS-FLP-GF	MK42	300 m	700 m	±50 mm	2000 Hz	•	•					
Extremely High-Speed sensor for scanner applications	LD90-3100EHS-FLP-GF	MK36	150 m	350 m	±25 mm	12 000 Hz	•	•	•	•			
	LD90-3300EHS-FLP-GF	MK42	300 m	700 m	±50 mm	12 000 Hz	•	•	•	•			
"High Penetration" level meter	LD90-3200HiP-GF	MK42	600 m	2000 m	±25 mm	0.5 ÷ 3 Hz	•					•	
Distance sensor for High-Temperature targets	LD90-310HT-GF	MK36(-HT)	3-7 m (at 1450 °C)		±10 mm	0.5 ÷ 10 Hz	•					•	•
	LD90-3100HT-GF	MK56-HT	3-10 m (at 1650 °C)		±15 mm	0.5 ÷ 10 Hz	•					•	•

*optional

For more information, see the detailed data sheets.

RIEGL LD90-3-GF optical heads available

Application	Optical head type	Key features	Main dimensions (detail s see drawings)
General purpose distance sensing - short distances - medium distances	MK36	very small & lightweight	120 x 80 x 50 mm
	MK42	small & lightweight, lenses can be equipped with filters	86 x 100 x 60 mm
Long range ship docking sensor	MK56-Z150	splash-water proof	cylindrically shaped, total length 460 x Ø 150 mm
	MK75-Z210	water proof, stainless steel case for highest resistance against sea-water	cylindrically shaped, total length 600 x Ø 210 mm
Altimeter	MK36-HiRel	water proof, side-looking	cylindrically shaped, length 370 x Ø 80 mm
Measurement through boreholes	MK36-Z65	forward-looking	cylindrically shaped, length 133 x Ø 65 mm
	MK42-Z80	water proof, side-looking	cylindrically shaped, length 370 x Ø 80 mm
High-temperature targets	MK36-HT	with heat protecting filters completely water-cooled, with mounting flange	cylindrically shaped, total length 650 x Ø 130 mm
	MK56-HT	with heat protecting filters	total 550 x 120 x 70 mm
Laser Scanner for robotics and anticollision systems		customer specified	can be extremely small

For more information, see the detailed drawings.

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 LD90-3-GF, 28/06/2007



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