

Slim Head Linear Gauge LGK Series

Series 542

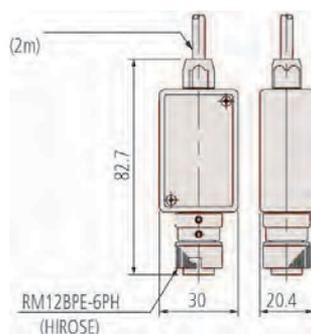
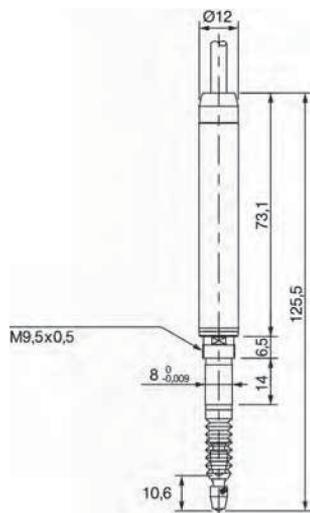
This is a slim type linear gauge that allows you to meet a variety of measurement needs.

The Linear Gauge SLIM HEAD LGK offers you the following benefits:

- Differential square-wave signal output enables to use it for a wide range of applications.
- You can install it even where space is restricted, thanks to its small size.
- IP-66 protection class.
- Its photoelectric scale gives it high precision across the entire measuring range.
- It is very long lasting due to linear ball-bearings in the spindle unit.



542-156
542-157
542-158



No.	Range	Measuring force *1	Resolution [mm]	Accuracy	Signal pitch [μm]	Mass [g]
542-156	0-10 mm	0.8 N/0.75 N/0.7 N	0.001	(1,5 + L/50) μm	4	175
542-157	0-10 mm	0.8 N/0.75 N/0.7 N	0.0005	(1,5 + L/50) μm	2	175
542-158	0-10 mm	0.8 N/0.75 N/0.7 N	0.0001	(0,8 + L/50) μm	0.4	175

*1 Spindle DOWN/Horizontal/Spindle UP



Specifications

Scale	Photoelectric linear encoder
Max. response speed	1500 mm/s
Stem Ø	8 mm
Contact point	Ø 3 mm carbide (mounting threads M 2,5 x 0,45)
Cable length	2 m
Power supply	5 V (4.5 V to 5.2 V), 80 mA max.
Output signal	90° phase difference, differential square wave (RS-422A equivalent)
Environmental conditions	0° C to 40° C (20% to 80% rel. humidity, no condensation)
Bearing type	Linear ball bearing

Standard accessories

No.	Description
538610	Wrench for contact point (for 10 range models)

Optional accessories

No.	Description
902434	Extension cable (5 m)
902433	Extension cable (10 m)
902432	Extension cable (20 m)
02ADE230	Pneumatic drive CAP 10
02ADB680	Fixing set Ø 9,5 (for 10 models)
02ADB683	Thrust stem wrench (for 10 range models)

Consumable spares

No.	Description
901312	Standard contact point
238772	10 rubber boot



Refer to the Linear Gauge documentation for more details