

Linear Gage LGB

Series 542

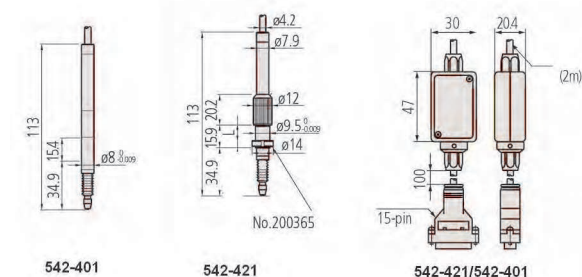
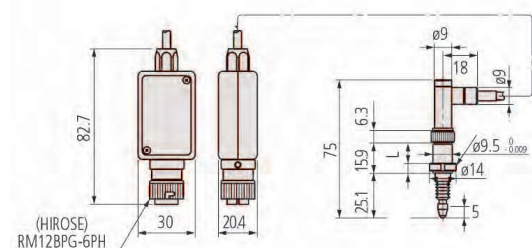


0,1 μm resolution

- Extra compact design with high precision for the entire range due to the small photoelectric scale.
- Differential square-wave signal output for a wide range of applications. Suitable for installation in machines, measuring devices.
- Very long life due to the linear ball-bearings in the spindle unit.



542-246



No.	Range	Measuring force *1	Stem diameter	Accuracy	Remarks	Mass g
542-401*	0-10 mm/0-0.4"	0.8 N/0.75 N/0.7 N	8 mm	2 μm	Sine wave output	160
542-421*	0-10 mm/0-0.4"	0.8 N/0.75 N/0.7 N	9,5 mm	2 μm	Sine wave output	180
542-246	0-5 mm/0-0.2"	0.65 N/0.60 N/0.55 N	9,5 mm	0,8 μm		

*1 Spindle DOWN/Horizontal/Spindle UP

Specifications

Digital step	0,1 μm/0.000005"
Scale type	Photoelectric linear encoder
Max. response speed	380 mm/s
Contact point	Ø3 mm carbide (mounting threads M 2,5 x 0,45)
Bearing type	Linear ball bearing
Output signal	90° phase difference, 200 mV p-p max.
Cable length	2 m
Power supply	5 V (4.5 V to 5.2 V), 150 mA max.
Environmental conditions	0°C to 30°C (20% to 80% rel. humidity, no condensation)

Standard accessories

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

Optional accessories

No.	Description
902434	Extension cable (5 m)
902433	Extension cable (10 m)
902432	Extension cable (20 m)

Consumable spares

No.	Description
901312	Standard contact point
238773	5 mm rubber boot



Refer to the Linear Gauge documentation for more details