

Linear Gage SLIM HEAD LGB



Specifications

Resolution	0,001 mm/0.00005"
Scale type	Photoelectric linear encoder
Max. response speed	900 mm/s
Contact point	Ø3 mm carbide Ø8 mm or Ø9,5 mm
Bearing type	Linear ball bearing
Output signal	90° phase difference, differential square wave (RS-422A equivalent) (Sine-wave output : 542-401, 542-421)
Cable length	2 m
Power supply	5 V (4.5 V to 5.2 V), 80 mA max.
Environmental conditions	0°C to 40°C (20% to 80% rel. humidity, no condensation)

Standard accessories

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

Optional accessories

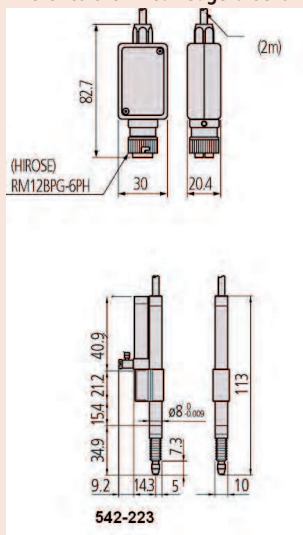
No.	Description
902434	Extension cable (5 m)
902433	Extension cable (10 m)
902432	Extension cable (20 m)
02ADE230	Pneumatic drive CAP 10 mm

Consumable spares

No.	Description
238772	10 mm rubber boot
238773	5 mm rubber boot
901312	Standard contact point



Refer to the Linear Gage brochure



Series 542

Extra slim type

- Differential square-wave signal output for a wide range of applications.
- Extra compact design to fit into tight spaces. Available with an outer diameter of only 8 mm.
- High precision for the entire measuring range due to the photoelectric scale.
- Very long life due to linear ball-bearings in the spindle unit.



No.	Range	Measuring force *1	Stem diameter	Accuracy	Remarks
542-244*	0-5 mm/0-0.2"	0.65 N/0.6 N/0.55 N	9,5 mm	2 µm	-
542-204	0-5 mm/0-0.2"	0.65 N/0.6 N/0.55 N	8 mm	2 µm	-
542-204H	0-5 mm/0-0.2"	0.8 N/0.75 N/0.7 N	8 mm	1 µm	-
542-222	0-10 mm/0-0.4"	0.8 N/0.75 N/0.7 N	8 mm	2 µm	-
542-222H*	0-10 mm/0-0.4"	0.8 N/0.75 N/0.7 N	8 mm	1 µm	-
542-224	0-10 mm/0-0.4"	0.6 N/0.55 N/0.5 N	8 mm	2 µm	Low measuring force
542-230*	0-10 mm/0-0.4"	0.8 N/0.75 N/0.7 N	8 mm	2 µm	w/pneumatic cylinder
542-223	0-10 mm/0-0.4"	0.8 N/0.75 N/0.7 N	8 mm	2 µm	w/pneumatic cylinder
542-262*	0-10 mm/0-0.4"	0.8 N/0.75 N/0.7 N	9,5 mm	2 µm	-
542-262H*	0-10 mm/0-0.4"	0.8 N/0.75 N/0.7 N	9,5 mm	1 µm	-
542-264	0-10 mm/0-0.4"	0.6 N/0.55 N/0.5 N	9,5 mm	2 µm	Low measuring force
542-270	0-10 mm/0-0.4"	0.8 N/0.75 N/0.7 N	9,5 mm	2 µm	w/pneumatic cylinder

*1 Spindle DOWN/Horizontal/Spindle UP

