Linear Gauges

SERIES 542 – LGF Economical Design Linear Gauge

- A compact, electronic, length measuring probe for measuring displacements up to 50 mm / 2".
- Wide range of application: due to its slim design this series can easily be integrated into measuring systems and automated machines.
- Long service life due to the linear ball bearing in the plunger assembly. Rubber protective boot for operation under severe conditions.

IP66

542-163

Technical Data

Accuracy:	Refer to the list of specifications (excluding quantizing error)
Resolution:	5 µm or 1 µm
Scale type:	Photoelectric linear encoder
Max. response speed:	1500 mm/s
Contact point:	ø3 mm carbide
Stem:	ø15 mm
Bearing type:	Linear ball bearing
Measuring force:	Refer to the list of specifications
Output signal:	90° phase difference, differential square wave (RS-422A equivalent)
Signal pitch:	20 µm (**542-613**), 4 µm (**542-163**)
Dust/Water protection level:	IP66

Standard Accessory

210187: Wrench for contact point

Optional Accessories

962505: Rubber boot
£19.90

902434: Extension cable (5 m)
£108.00

902433: Extension cable (10 m)
£180.00

902432: Extension cable (20 m)
£255.00

02ADN370: Thrust stem set
£15.00

02ADB693: Thrust stem wrench
£7.00

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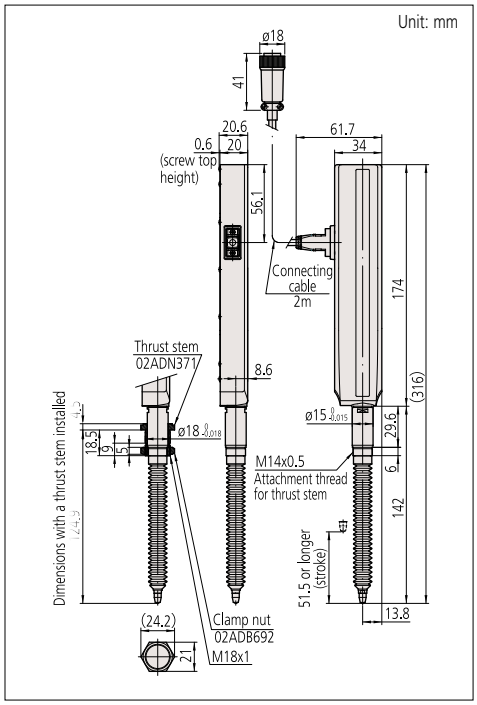
SPECIFICATIONS

Code No.	Range	Resolution	Accuracy*	Measuring force**	Stem ø	Price
542-163	50 mm (2")	0.001 mm	(1.5+L/50) µm	5.7N/5.3N/4.9N	15 mm	**£724.00**
542-613	50 mm (2")	0.005 mm	(7.5+L/50) µm	5.7N/5.3N/4.9N	15 mm	**£540.00**

* L = Effective range (mm)
** Orientation of gauge: Spindle down / horizontal / up

DIMENSIONS



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