

## Technical Data

|                              |                                                                     |
|------------------------------|---------------------------------------------------------------------|
| Accuracy:                    | Refer to the list of specifications (excluding quantizing error)    |
| Resolution:                  | 1 µm                                                                |
| Scale type:                  | Photoelectric linear encoder                                        |
| Max. response speed:         | 900 mm/s                                                            |
| Contact point:               | ø3 mm carbide                                                       |
| Stem:                        | ø8 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:                | 4 µm                                                                |
| Dust/Water protection level: | IP54                                                                |

## Standard Accessory

**538610:** Wrench for contact point

## Optional Accessories

|                |                                                   |
|----------------|---------------------------------------------------|
| <b>238773:</b> | Rubber boot for 5 mm LGB (spare)<br><b>£6.00</b>  |
| <b>238772:</b> | Rubber boot for 10 mm LGB (spare)<br><b>£6.00</b> |
| <b>902434:</b> | Extension cable (5 m)<br><b>£108.00</b>           |
| <b>902433:</b> | Extension cable (10 m)<br><b>£180.00</b>          |
| <b>902432:</b> | Extension cable (20 m)<br><b>£255.00</b>          |

## SERIES 542 – LGB Extra-Slim Linear Gauge

- Extremely compact design. Available with an outside diameter as small as 8 mm.
- The small photoelectric linear encoder assures high precision over the entire stroke range.
- The ball bearings used in the spindle unit ensure superb durability.



542-204



542-222

## SPECIFICATIONS

| Code No.       | Range       | Resolution | Accuracy | Measuring force* | Stem ø | Price          |
|----------------|-------------|------------|----------|------------------|--------|----------------|
| <b>542-204</b> | 5 mm (.2")  | 0.001 mm   | 2 µm     | 0.65N/0.6N/0.55N | 8 mm   | <b>£830.00</b> |
| <b>542-222</b> | 10 mm (.4") | 0.001 mm   | 2 µm     | 0.8N/0.75N/0.7N  | 8 mm   | <b>£712.00</b> |

\* Orientation of gauge: Spindle down / horizontal / up

## DIMENSIONS

