



Precision Driven

DG/2.5/S MKII

Probe with direct analogue output Position feedback and linear displacement measurement

Description

The new and improved DG/2.5/S Mark 2 is an analogue DC/DC position sensor based on the LVDT principle. It features a high accuracy long life linear ball bearing. A versatile integrated amplifier features low noise, high bandwidth and supply independent signal output for use with data logger, PLCs, control systems. Applications include motion control, position feedback, dimensional gauging.

The DG/2.5/S MKII comes readily calibrated with superior accuracy and does not require any further set up/adjustments. Integrated into the amplifier is a power supply capable of coping with a wide input range without affecting the output, making the DG/2.5/S MKII ideal in battery operated applications.

The DG/2.5/S MKII has evolved from its predecessor the successful DG-series.

Features

Wide input power range does not change output voltage Metal end cap High accuracy linear ball bearing Very good repeatability 0.15 µm PUR screened cable 500 Hz-3 db Bandwidth Anti-Rotation feature 3 mm Tungsten Carbide Probe Tip (replaceable)





Anti rotation device designed to be strong yet give good non repeat with probe tip off

Precision. Quality. Reliability

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Technical Specification

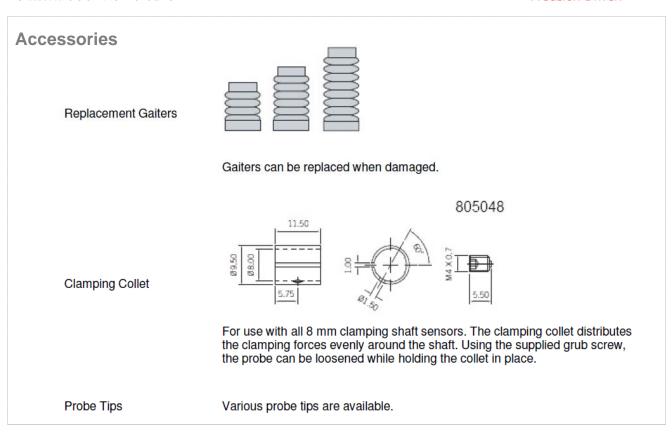
| | DG/2.5/MKII |
|--|--|
| Voltage Output (DC Bipolar) | ± 5 VDC |
| Measurement | |
| Measurement Range (mm) | 5 mm total |
| Pre - Travel (mm) | 0.15 |
| Post - Travel (mm) | 0.85 |
| Linearity (% FSO) | < ± 0.2 |
| Repeatability (µm) | 0.15 |
| Temperature coefficients (% FSO/°C) | <0.02 |
| Mechanical | |
| Body Diameter - Length A (mm) | 19 |
| Body Diameter - Length B (mm) | 8 |
| Case Material | 400 Series ST/ST |
| Tip Force @ Electrical zero (+/- 20%) | 0.7 N |
| Cable Type | PU |
| Standard Cable Length | 3 M |
| Standard Cable Style | Screened |
| Nominal Mass (g) (+/- 5) (Not Including Cable : Cable = 35 g/m) | 34 |
| Environment | |
| Operating Temperature | +5 to +65 |
| Storage Temperature | -20 to +85 |
| Sealing | IP65 |
| Vibration | 1 to 10 g rms linear 10 to 50 Hz 10 g rms linear 50 Hz to 1 kHz |
| Electrical Interface | |
| Input | 10 to 30 VDC |
| Noise (DC Output) measured in 500 Hz Bandwidth | <0.2 mV 500 Hz |
| Electrical Connections | 300 112 |
| Red | V Supply + |
| Blue | V Supply - |
| White | V Output + |
| Green | V Output gnd |
| Black and Screen | Earth |

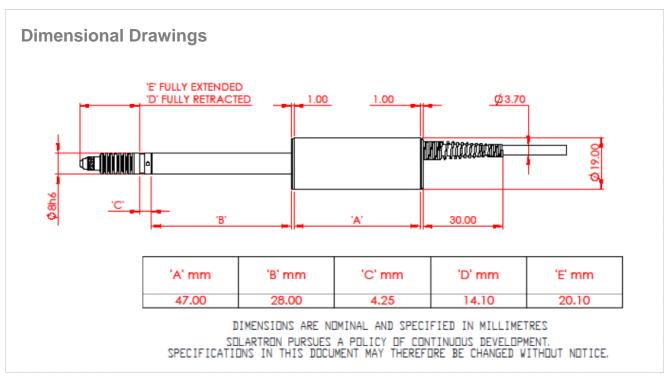
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Solartron pursues a policy of continuous development. Specifications in this document may therefore be changed without notice.

