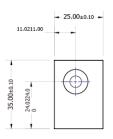
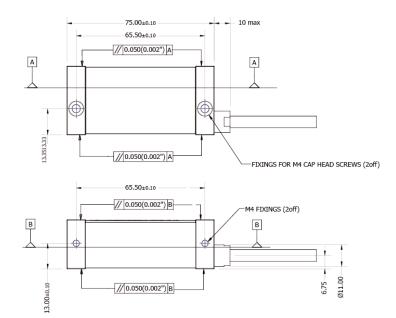
DMG-TT, EV & EM LINEAR ENCODER

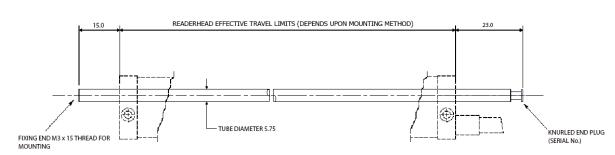
DATASHEET



- High tolerance to shock and vibration
- Comparable range of accuracy and resolutions
- High level of repeatability
- Thermal co-efficient of expansion is similar to steel
- Zero maintenance
- Easy installation
- Travel lengths up to 1 metre







Inductive
TTL, 1Vpp & 11µApp
+/-5 (+/-0.0002 in)
1, 2, 5, 10
(0.0001 in, 0.0002 in, 0.0005 in, 0.00002 in)
20μm or 40μm
None
1MHz (1m/s at 1µm resolution)
10g / 98m/s (head moving)
5VDC +/- 5% < 80mA
100g / 980m/s ² (IEC 69-2-6)
30g / 294m/s² (IEC 68-2-27)
IP67 (Exceeds NEMA 6)
0 to 55°C (32 to 131°F)
-20 to 70°C (-4 to 158°F)
35 x 25mm (1.4 x 1in)
Carbon Fibre
12ppm/ºC
5.75mm (0.2 in)

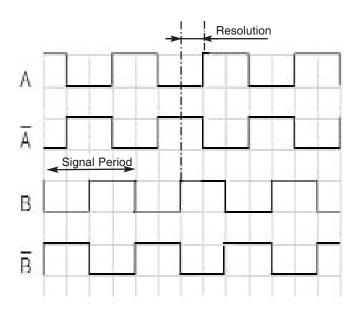
Maximum scale travel	1000mm (39.4 in.)
Maximum single end mount measuring length	250mm (10 in)
Scale over-travel requirements	173mm (7 in)
Cable	9 core screened cable with PUR (polyurethane) cover with armour
Cable length	3.5m
Minimum bend radius with PUR	50.8mm (2in)
Maximum cable length	20m (787 in)
Connector	D type 9 pin, 12 pin Round, 9 pin Round
EMC compliance	BS EN 61000-6-4 & BS EN 61000-6-2
OPTIONS	
Cable length option	7 metre



DMG-TT - TTL Output Signal - Differential Quadrature

Newall TT Series Linear Encoders provide a differential quadrature output at RS422 TTL levels. The output signals are transmitted via 9-core cable.

The distance between two successive edges of the combined pulse trains A and B is one measuring step (resolution).

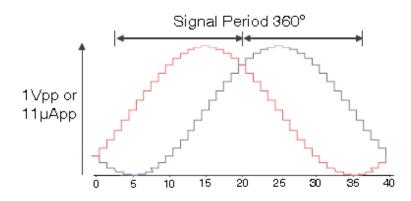




DMG-EV & EM - 1Vpp & 11µApp Output Signal

Newall EV & EM Series linear encoders provide differential sinusoidal output signals that are phase shifted by 90°, and can provide 1Vpp or 11µApp signal levels depending on which model is selected.

The output signals are transmitted via 9 core cable.





1Vpp is available with 20µm signal period only

11μApp is available with 20μm or 40μm signal period

Assumes 120 Ohm termination resistor