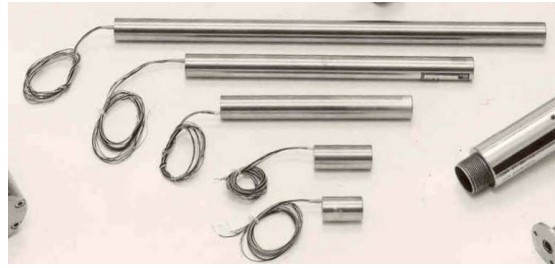




- Fully Sealed
- Fully Submersible
- DC operation
- Sprung, guided or free cores
- High accuracy

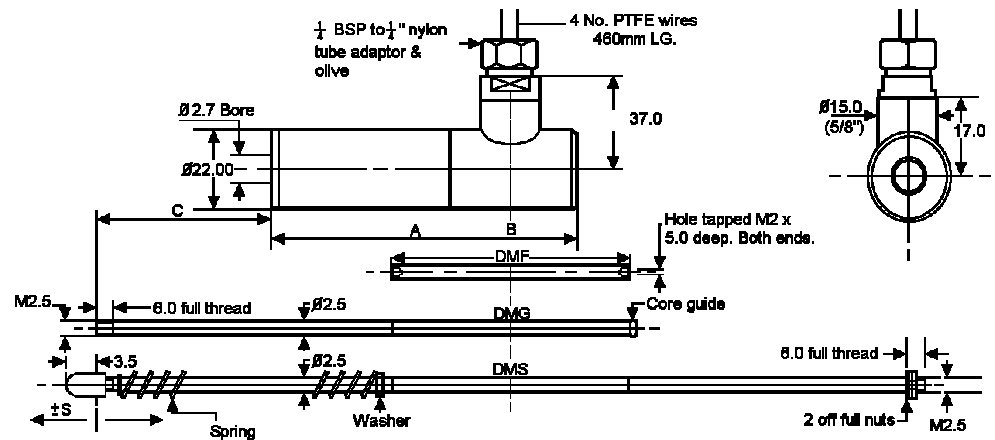


The DM-W Series linear variable differential transformers are designed for applications requiring total submersion or for use in situations where high humidity or condensation may be expected.

The DM-W series of DC input DC output LVDTs consist of a fully sealed body housing the impregnated coils and internally potted electronics such that these units are suitable for the majority of submersible applications.

For submersion in liquids up to approximately 20m depth (or equivalent pressure of 30 PSI or 2 atmospheres), a suitable sealing compound should be used within the compression fitting. For higher pressures (or greater depths) the use of araldite AY18 and Hz 18 hardener is recommended and the manufacturer's instructions on cleaning surfaces and mixing should be followed.

The series is available with the lightweight core supplied as a basic unattached item (DMF-W) or with the core attached to an extension rod and fitted with core guides (DMG-W) or with the core and extension rod captive and spring loaded (DMS-W).



Specification

Output Impedance.....	9k
Output Load.....	50k
Thermal Zero Shift (FRO/°C).....	Better than 0.005%
Thermal Span Shift (FRO/°C).....	Better than 0.1%
Output Ripple (FRO).....	Less than 0.2%
Frequency response.....	DC to 75Hz
Input Current.....	30mA ± 15%
Temperature Range.....	0-80°C
Linearity.....	Better than ± 0.5% standard to± 0.25% by selection.

Ordering Information/Options

			DM - 5W	DM - 12.5W	DM - 25W	DM - 50W
Stroke	S	± mm	5	12.5	25	50
	A	mm	81	110	117	244
	B	mm	20	30.15	76.2	94
	C	mm	34.5	50.5	67	87.25
Core Weight (gms)			0.8	1.2	3.1	3.8
Core + Extension (gms)			3	4.2	6.8	9.5
12V Excitation	DMF	Free core	IS 214	IS 215	IS 216	IS 217
	DMG	Guided core	IS 222	IS 223	IS 224	IS 225
	DMS	Sprung Loaded	IS 230	IS 231	IS 232	IS 233
	Sensitivity ± 15%		± 2.5V	± 3.0V	± 3.5V	± 5V
24V Excitation	DMF	Free core	IS 218	IS 219	IS 220	IS 221
	DMG	Guided core	IS 226	IS 227	IS 228	IS 229
	DMS	Sprung Loaded	IS 234	IS 235	IS 236	IS 237
	Sensitivity ± 15%		± 5V	± 5.8V	± 7V	± 10V
Ordering Informaton			Order units by specifying Type No. and IS No.			

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