

DC-DC Miniature LVDTs

Models MS3 and S3C

MINIATURE DESIGN

COST EFFECTIVE

0.25% NON-LINEARITY



Model MS3 Free Unguided



Model S3C Captive Guided Spring Return

SENSOTEC's Models MS3 (free unguided armature) and S3C (captive guided spring return armature) DC-DC Miniature LVDTs are ideally suited for multi-point applications with space constraints and provide a cost-effective alternative to larger, more expensive units. These models operate with 6 to 12 volt DC power supplies and are compatible with DC data logging equipment used for taking readings from strain gages or other DC operated transducers.

PERFORMANCE

ENVIRONMENTAL

ELECTRICAL

MECHANICAL

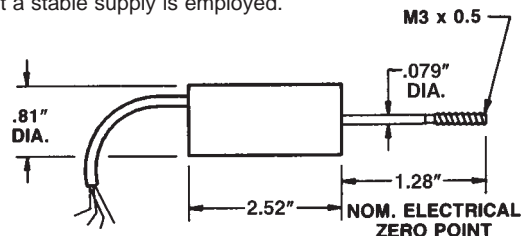
	Model MS3 (Free Unguided) Order Code BY327	Model S3C (Captive Guided Spring Return) Order Code BY324
Strokes Ranges	±.1" to .2"	±.1" to .2"
Non-linearity (max)	±0.25% F.S.	±0.25% F.S.
Output (field selectable)	±5 VDC or 0-10 VDC	±5 VDC or 0-10 VDC
Resolution	Infinite	Infinite
Temperature, Operating	12° F to 122° F	12° F to 122° F
Temperature Effect		
- Zero (max)01% F.S./°F	.01% F.S./°F
- Span (max)025% Rdg./°F	.025% Rdg./°F
Element Type	DC-DC LVDT	DC-DC LVDT
Power Supply (@ 30mA)		
- Single Supply	24 to 40 VDC	24 to 40 VDC
- Dual Supply	±12 to ±20 VDC	±12 to ±20 VDC
Unfiltered Output Impedance	100 ohms	100 ohms
Output Load (min.)	20,000 ohms	20,000 ohms
Noise (filtered output)	2mV RMS at zero output 5-10 mV RMS at full range	2mV RMS at zero output 5-10 mV RMS at full range
Wiring Code (std)	#31	#31
Electrical Termination	Multiconductor shielded cable (6 ft.)	Multiconductor shielded cable (6 ft.)
Case Material	Stainless steel	Stainless steel
Probe Material	Stainless steel	Stainless steel
Armature Type	Free unguided	Captive guided spring return
Unit Weight	73.5 grams	82.5 grams
Probe Thread	M3 x 0.5	N/A

Notes * Calibrated at 10VDC. Output will change approximately proportionately to the applied supply voltage. It is therefore important that a stable supply is employed.

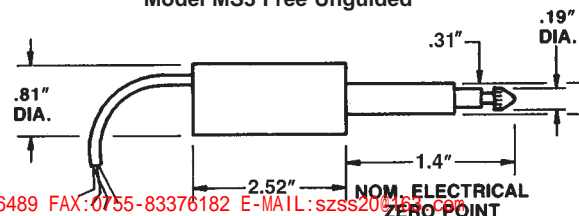
Dimensions

Model MS3 (Order Code BY327)	Available Stroke Ranges
Range Code	Stroke Ranges
HM	±.1"
HN	±.2"
HF	±.3"
HG	±.4"

Model S3C (Order Code BY324)	Available Stroke Ranges
Range Code	Stroke Ranges
HM	±.1"
HN	±.2"
HF	±.3"
HG	±.4"



Model MS3 Free Unguided



Model S3C Captive Guided Spring Return

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