

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 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 .4"	±.1" to .4"
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.....	-58° F to 158° F	-58° F to 158° F
Temperature Effect		
- Zero (max).....	.006% F.S./°F	.006% F.S./°F
- Span (max).....	.017% F.S./°F	.017% F.S./°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
Output Impedance.....	2 ohms	2 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

DISPLACEMENT

AC-AC MINIATURE

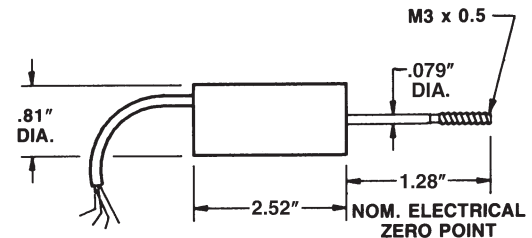
Dimensions

Model MS3 (Order Code BY327)

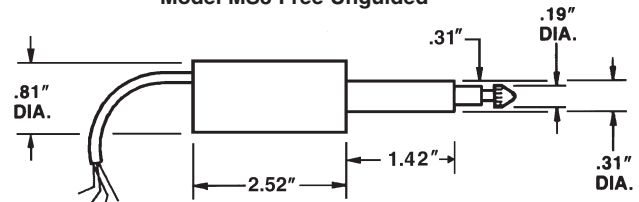
Range Code	Available Stroke Ranges
HM	±.1"
HN	±.2"
HF	±.3"
HG	±.4"

Model S3C (Order Code BY324)

Range Code	Available Stroke Ranges
HM	±.1"
HN	±.2"
HF	±.3"
HG	±.4"



Model MS3 Free Unguided



Model S3C Captive Guided Spring Return