

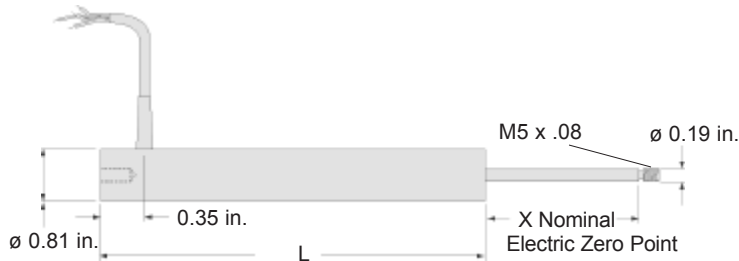
# Model MVL7 AC-AC Long Stroke LVDT

Order Code BY125

- 0.25% Non-Linearity
- Stainless Steel
- 0.5 to 8.0 in. Ranges



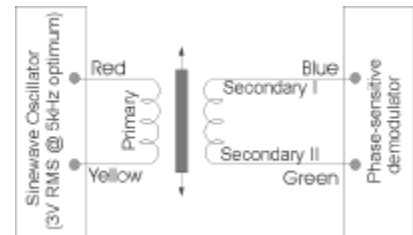
## Dimensions



## Wiring Codes

Wire	Supply
Red	(+) Supply (Calibrated @ 3V RMS 5 kHz)
Yellow	Supply Return
Blue	Output
Green	Output Return
Black	Secondary Center Tap (normally not connected)

Range Codes	Available Stroke Ranges	L (in.)	X (in.)	Approx. Body Weight (oz.)	Approx. Armature Weight (oz.)	Typical F.S. Output at 3V RMS
HP	+/- 0.5 in.	5.0	1.7	6	1.25	2.4V RMS
HQ	+/- 1.0 in.	6.0	2.7	8	1.75	3.0V RMS
HR	+/- 2.0 in.	10.6	3.2	13	2.0	4.8V RMS
HS	+/- 3.0 in.	15.0	4.7	16	2.2	4.5V RMS
HT	+/- 4.0 in.	16.75	5.2	20	2.5	9.5V RMS
HU	+/- 6.0 in.	24.25	7.2	29	4.0	7.2V RMS
HV	+/- 8.0 in.	31.75	10.2	42	5.1	4.8V RMS



## Performance

Stroke Range	+/- 0.5 to 8.0 in.
Non-Linearity (max.)	+/- 0.25% Full Scale
Non-Repeatability (max.)	Not Applicable
Output Sensitivity	See table above
Resolution	Infinite

## Environmental

Temperature, Operating	-58° to 257°F
Temperature, Effect	
Zero (max.)	0.006% Full Scale/°F
Span (max.)	0.006% Full Scale/°F

## Electrical

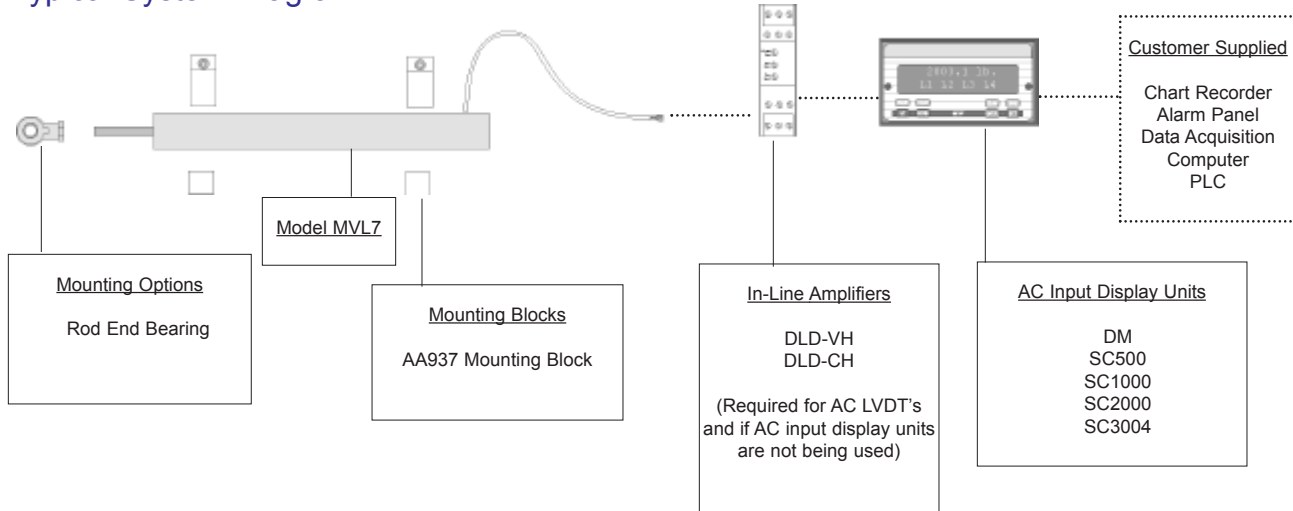
Element Type	AC-AC LVDT
Input Supply (calibrated)	3 V RMS @ 5 kHz
Input Supply (acceptable)	1-7 V RMS @ 2-10 kHz
Electrical Termination	Multiconductor shielded cable

## Mechanical

Material	Stainless Steel
Probe Material	Stainless Steel
Armature Type	Free Unguided
Probe Thread	M5 x 0.8
Weight	See table above
Spring Force (max.)	Not Applicable

# Model MVL7

## Typical System Diagram



## Options

	Fast Track Delivery	Built to Order
Stroke Ranges	+/- 0.5 to 8.0 in.	
Electrical Termination	Multiconductor Shielded Cable (6 ft.)	TM405. Axial Bendix connector on body Radial (side) TM406. Bendix connector on body
Electrical Cable Orientation		TM49. Axial cable exit
Mounting Threads		TM511. 13/16 - 32 UNF
Improved Linearity	L10. +/- 0.1% max. linearity (less than or equal to +/- 4 in.)	
Higher Temperature		TM315. 400° F up to +/- 4.0 in.

Supplied as standard

## Range Codes

Range	Range Code
+/- 0.5 in.	HP
+/- 1.0 in.	HQ
+/- 2.0 in.	HR
+/- 3.0 in.	HS
+/- 4.0 in.	HT
+/- 6.0 in.	HU
+/- 8.0 in.	HV

## Special Customer Requirements (Consult Factory)

Moisture resistant  
 Radiation resistance 100M rads  
 Longer cable length, limited on certain models  
 Threaded body  
 T.E.D.S. IEEE 1451.4 module  
 Signature Calibration

-Not RoHS Compliant

## How to Order

The order code consists of the product model, the desired range code and the available options.

Sample Code: **BY125** **HQ** **L10**  
 Model Code Range Code Options Code