

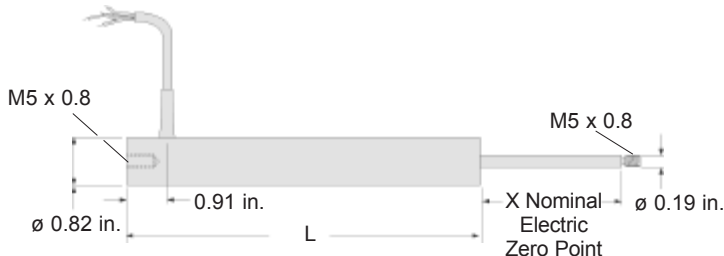
# Model JEC-C DC-DC Long Stroke LVDT

Order Code AY323

- Voltage Regulation
- Easy to Operate
- Reverse Polarity Protection



## Dimensions



Range Codes	Available Stroke Ranges	L (in.)	X (in.)	Approx. Unit Weight (oz.)
HP	+/- 0.5 in.	7.65	1.5	12.0
HQ	+/- 1.0 in.	8.75	2.5	14.0
HR	+/- 2.0 in.	13.25	3.0	18.0
HS	+/- 3.0 in.	17.65	4.5	22.0
HT	+/- 4.0 in.	19.45	5.0	27.0
HU	+/- 6.0 in.	26.95	7.0	36.0
HV	+/- 8.0 in.	34.45	10.0	51.0
HW	+/- 10.0 in.	42.0	12.0	59.0
HY	+/- 15.0 in.	58.0	16.0	78.0
HZ	+/- 18.5 in.	68.5	20.0	92.0

## Wiring Code

### Dual Supply

Red +12 to +20 V Input  
 Blue -12 to -20 V Input  
 Black OV, I/P, O/P Common

### Single Supply (\*floating)

Red +24 to +40 V Input  
 Blue Supply Negative

### Outputs

Yellow 0-10 Volt  
 Green +/- 5 VDC

\* Output common floats at voltage source/2

## Performance

Stroke Range.....+/- 0.5 to 18.5 in.  
 Non-Linearity (max.)  
 +/- 0.5 in. to +/- 10.0 in.....+/- 0.25% Full Scale  
 +/- 15.0 in. to +/- 18.5 in.....+/- 0.5% Full Scale  
 Output Load (min.).....2,000 Ohms with 3-wire supply, 20,000 Ohms with floating supply  
 Output Impedance.....2 Ohms  
 Output Sensitivity.....+/- 5 VDC or 0-10 VDC (field selectable)  
 Isolation.....1,000 V input to output  
 Polarity.....Output positive for outward stroke

## Environmental

Temperature, Operating.....-58° to 158°F  
 Temperature, Effect  
 Zero (max.).....0.006% Full Scale/°F  
 Span (max.).....0.017% Full Scale/°F

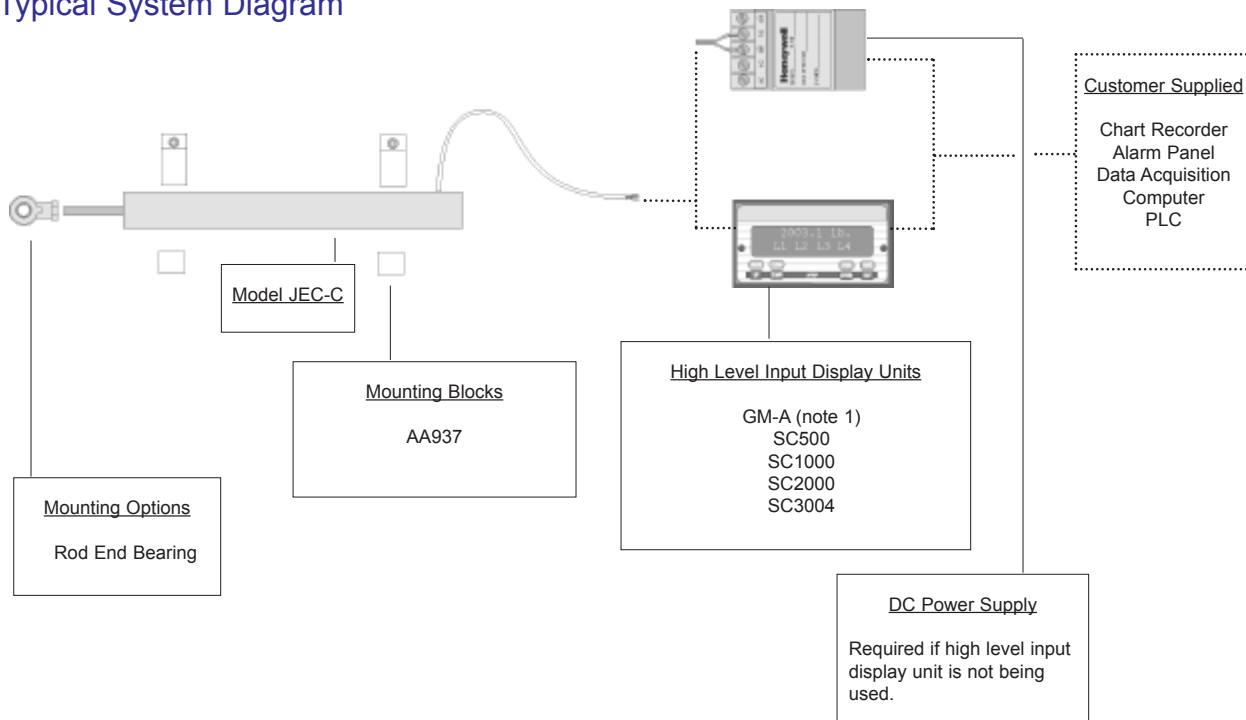
## Electrical

Element Type.....DC-DC LVDT  
 Power Supply  
 Single Supply.....+24 to +40 VDC @ 30 mA  
 Dual Supply.....+/-12 to +/-24 VDC @ 30 mA  
 Ripple.....30 mV peak to peak  
 Electrical Termination.....Multiconductor Shielded Cable (6 ft.)  
 Reverse Polarity Protection.....Yes

## Mechanical

Material.....Stainless Steel  
 Probe Material.....Stainless Steel  
 Armature Type.....Captive Guided  
 Probe Thread.....M5 x 0.8  
 Weight.....See Above Table  
 Spring Force (max.).....N/A

### Typical System Diagram



### Options

	Fast Track Delivery	Built to Order
Stroke Ranges	+/- 0.5 to 18.5 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.)	

■ 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
+/- 10.0 in.	HW
+/- 15.0 in.	HY
+/- 18.5 in.	HZ

### Notes

1. GM-A should not be used with an amplified LVDT unless using an external power supply to power the LVDT.

### Special Customer Requirements (Consult Factory)

T.E.D.S. IEEE 1451.4 module  
Signature Calibration



Approved

-Not RoHS Compliant

### How to Order

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

Sample Code: **AY323** **HQ** **L10**  
Model Code      Range Code      Options Code