

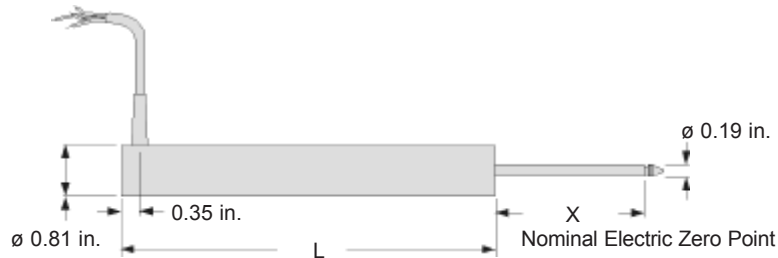
Model DLF DC-DC Long Stroke LVDT

Order Code BY129

- Low Voltage Requirements
- Easy to Operate
- Stainless Steel
- Reverse Polarity Protected



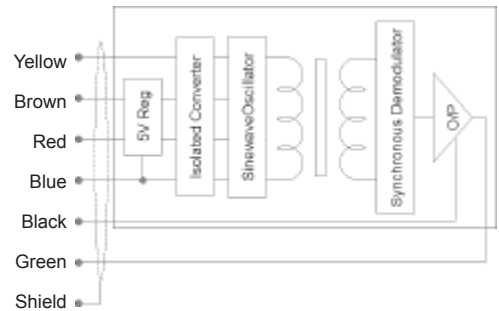
Dimensions



Range Codes	Available Stroke Ranges	L (in.)	X (in.)	Approx. Unit Weight (oz.)
HP	+/- 0.5 in.	7.15	1.5	8.0
HQ	+/- 1.0 in.	8.25	2.5	10.0
HR	+/- 2.0 in.	12.75	3.0	14.0
HS	+/- 3.0 in.	17.4	4.5	18.0

Wiring Codes

5V Supply	Wire	6-18VDC Supply
+5V Input	Yellow	Connect to Brown
Insulate	Brown	Connect to Yellow
Insulate	Red	+6 to +18 VDC
Supply Com. (0V)	Blue	Supply Com. (0V)
Output Low	Black	Output Low
Output High	Green	Output High
Instrument Ground	Shield	Instrument Ground



NOTE: Incorrect connection may cause irreparable damage, contact factory for assistance

Performance

Stroke Range	+/- 0.5 to 3.0 in.
Non-Linearity (max.)	+/- 0.25% Full Scale
Output Load (min.)	2,000 Ohms
Output Impedance	2 Ohms
Output Sensitivity	+/- 2 VDC (nominal)
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

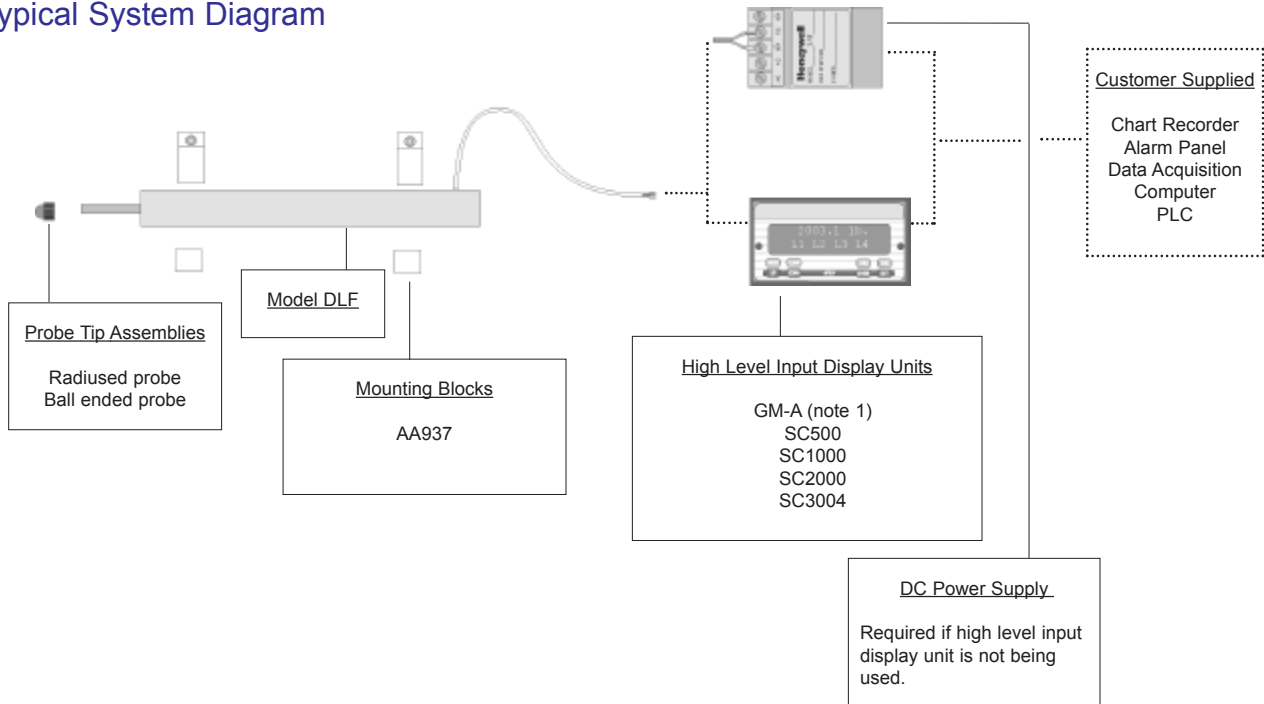
Element Type	DC-DC LVDT
Input Supply (acceptable)	
Regulated	5 VDC @ 100 mA max.
Unregulated	+6 V to +18 VDC @ 100 mA max.
Ripple	30 mV peak to peak
Electrical Termination	Multiconductor Shielded Cable (6 ft.)
Reverse Polarity Protection	Yes

Mechanical

Case Material	Stainless Steel
Probe Material	Stainless Steel
Armature Type	Captive Guided Spring Return
Probe Thread	M2.5 Female
Weight	See Above Table
Spring Force (max.)	4.0 oz./ in.

Model DLF

Typical System Diagram



Options

	Fast Track Delivery	Built to Order
Stroke Ranges	+/- 0.5 to 3.0 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	

■ Supplied as standard

Range Codes

Range	Range Code
+/- 0.5 in.	HP
+/- 1.0 in.	HQ
+/- 2.0 in.	HR
+/- 3.0 in.	HS

Notes

- 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



-Not RoHS Compliant

How to Order

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

Sample Code: **BY129** **HQ** **L10**
Model Code Range Code Options Code