

DC-DC Long Stroke LVDTs

Models DLB, DLE and DLF

LOW VOLTAGE REQUIREMENTS

EASY TO OPERATE

STAINLESS STEEL

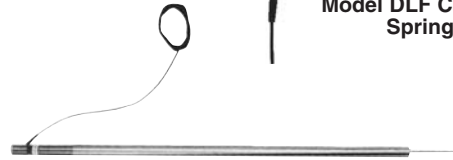
REVERSE POLARITY PROTECTED



Model DLB Free Unguided



Model DLF Captive Guided Spring Return



Model DLE Captive Guided Armature



SENSOTEC'S Model DLB (free unguided), DLE (captive guided armature) and DLF (captive guided spring return) operate from either +5 VDC regulated or +6 to +18 VDC unregulated and generate an output signal of ± 2 VDC. The output signal is electrically isolated from the input voltage and can be used with digital panel meters to form a complete readout system. The DLB, free unguided is available with stroke ranges of 0.5" to 8.0". the DLE, captive guided armature has stroke ranges of 0.5" to 18.5" and the DLF, captive guided spring return from 0.5" to 3.0".

PERFORMANCE

	Model DLB Order Code BY127	Model DLF Order Code BY129	Model DLE Order Code BY128
Stroke Ranges (Model DLB)		$\pm 0.5"$ to 8"	
(Model DLF)		$\pm 0.5"$ to 3"	
(Model DLE)		$\pm 0.5"$ to 18.5"	
Non-linearity (max)		$\pm 0.25\%$ F.S.	
Output sensitivity		± 2 VDC F.S.	

ENVIRONMENTAL

Temperature, Operating	-58° F to 158° F
Temperature Effect	
-Zero (max)006% F.S./°F
-Span (max)017% F.S./°F

ELECTRICAL

Element type	DC-DC LVDT
Input supply	+6V to +18VDC unregulated or 5V regulated
Output impedance	2 ohms
Output load (min)	2K ohms
Output ripple	30mv peak to peak
Reverse polarity protection	Yes
Wiring Code (std)	#35
Electrical termination	Multiconductor shielded cable (6 ft.)

MECHANICAL

Case material	Stainless steel
Probe material	Stainless steel
Armature type (Model DLB)	Free Unguided
(Model DLF)	Captive Guided Spring Return
(Model DLE)	Captive Guided
Probe thread	M5 x 0.8
Spring force (max)	4 ozs./in. (DLF Only)

1-888-282-9891

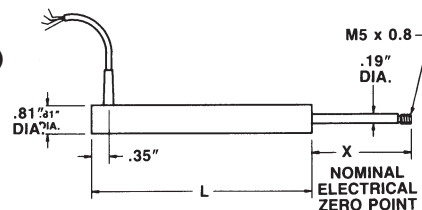
Honeywell
Sensotec Sensors

www.honeywell.com/sensing

Dimensions

Model DLB (Order Code BY127)

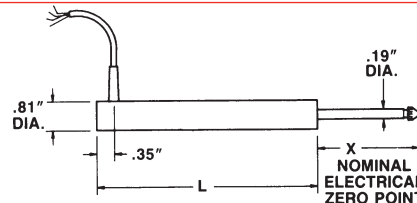
Order Code W/Range	Available Stroke Ranges	L"	X"	Approx. Weights (ozs.)	
				Body	Armature
BY127HP	±0.5"	6.9	1.7	7.5	1.0
BY127HQ	±1.0"	7.9	2.7	9.5	2.0
BY127HR	±2.0"	12.5	3.2	13.0	2.5
BY127HS	±3.0"	16.9	4.7	17.5	3.0
BY127HT	±4.0"	18.6	5.2	22.0	3.5
BY127HU	±6.0"	26.1	7.2	30.0	4.0
BY127HV	±8.0"	33.6	10.2	44.0	5.0



Model DLB Free Unguided

Model DLF (Order Code BY129)

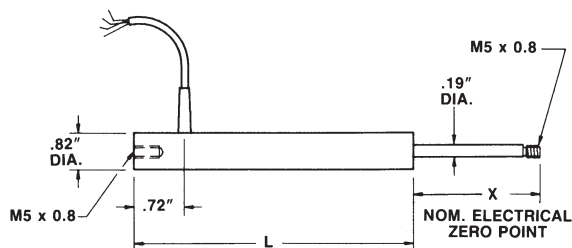
Order Code W/Range	Available Stroke Ranges	L"	X"	Approx. Unit Weights (ozs.)	
				BY129HP	±0.5"
BY129HQ	±1.0"	8.25	2.5	10.0	
BY129HR	±2.0"	12.85	3.0	14.0	
BY129HS	±3.0"	17.25	4.5	18.0	



Model DLF Captive Guided Spring Return

Model DLE (Order Code BY128)

Order Code W/Range	Available Stroke Ranges	L"	X"	Approx. Unit Weights (ozs.)	
				BY128HP	±0.5"
BY128HQ	±1.0"	8.5	2.5	14.0	
BY128HR	±2.0"	13.1	3.0	18.0	
BY128HS	±3.0"	17.5	4.5	22.0	
BY128HT	±4.0"	19.3	5.0	27.0	
BY128HU	±6.0"	26.8	7.0	36.0	
BY128HV	±8.0"	34.3	10.0	51.0	
BY128HW	±10.0"	42.0	12.0	59.0	
BY128HY	±15.0"	58.0	16.0	78.0	
BY128HZ	±18.5"	68.5	20.0	92.0	



Model DLE Captive Guided Armature

General Information

How to order (See Pg. AP-19)
LVDT selection flow chart (See Pg. LV-1)