

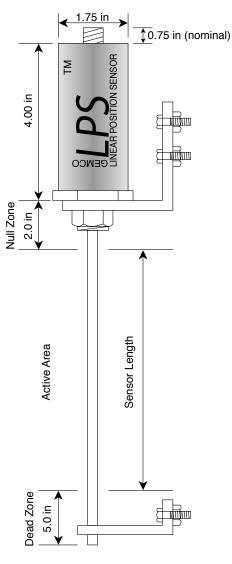
Series 940 Gemco

LPS M Linear Position Sensor Instructions

Installation/Operation Instructions

Specifications*				
Model Number	<u>940-XX-1E**</u>	<u>940-XX-2E**</u>	<u>940-XX-3E**</u>	
Output Signal	0-10 vdc	10-0 vdc	4-20 mA Loop	Power
Supply Voltage	15-26 vdc	15-26 vdc	n.a.	
Supply Current	50 mA Max	50 mA Max	n.a.	
Position Accuracy	0.1% of Full Stroke (Min. 0.05")			
Non-Linearity	+/- 0.05% of Full Scale			
Repeatability	0.01% of Full Stroke			
Temperature Rating	9			
Head Electronic	s -20 to 70°C (-4 to 158°F)			
Guide Tube	-40 to 85°C (-40 to 185°F)			
Pressure Rating +3000 PSIG Operation				
	in Hydraulic Fluid and			
		+8000 PSIG P	eak	
Sensor Length	3", 6",	12", 18", 24", 36	6", 72", 96"	
Enclosure	I	NEMA 12, 13	IP 65	
* Specifications subject to change without notice.				

Typical Dimensions



Operation

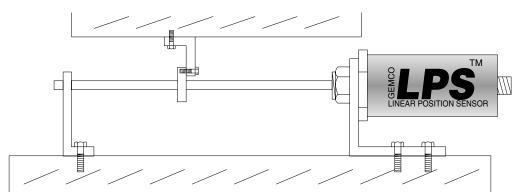
** In place of "XX" insert sensor length in inches.

The active area of the sensor lies between Null Distance and the Dead Zone. Sensors are sold by "active sensor length" and overall sensor length increases by the Dead Zone and Null Distance. The sensor must be applied such that the magnet, over its maximum excursion, remains within the active area.

Maximum analog output occurs when the magnet target is moved to the Dead Zone boundary. Minimum analog output occurs with the magnet target at the Null Distance boundary. There are no adjustments needed or possible with the model 940 Gemco LPS Sensor. Off-set, pre-sets and signal inversion can be done through programming of the programmable controller, or by using the LPS input to the Gemco 949-001 model control unit.

> Spec Tech Industrial 203 Vest Ave. Valley Park, MO 63088 Phone: 888 SPECTECH E-mail: sales@spectechind.com www.spectechind.com

Typical Installation



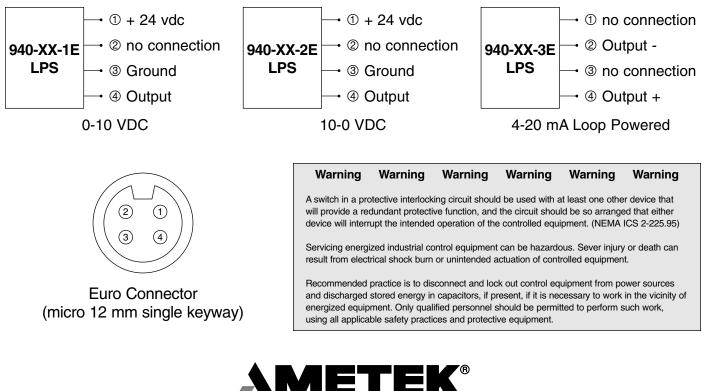
Use Mounting Kit No. 949-002 which includes the head "L" bracket and the probe support bracket. The magnet support bracket is provided with the magnet kit. It is important to use the mounting kit hardware provided, or to follow the following instructions:

Important

In instances where the magnet will be mounted to a ferrous surface, spacers manufactured of non-ferrous materials (such as stainless steel, nylon, etc.) should be used. The spacer should be designed in such a way that any ferrous surface is no closer than 0.25" from magnet. Ferrous material within 0.25" of the magnet will distort the magnetic flux and adversely affect the units operation.

Wiring Diagrams

Use Euro Connector (micro 12 mm single keyway) cordsets, available from most connector manufacturers or purchased from Patriot. Install according with the following diagrams:





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