



# 940 LPS Linear Position Sensor

940

## The Gemco LPS Linear Position Sensor

The non-contact Gemco LPS Linear Position Sensor uses field proven and reliable magnetostrictive technology to deliver accurate, absolute and continuous machine positioning.

Available in pre-engineered sensor lengths or custom lengths to fit your application with standard analog outputs, this sensor is a durable, value-packed linear position device that is easy to use. It not only replaces discrete position sensors, but outperforms them at roughly the same cost.

We designed the Gemco LPS to connect directly to conventional programmable controllers or analog input modules, and made it work without the need for programming, adjustments or initialization. Then we employed our 50 years of experience in packaging control products for harsh industrial environments and made the Gemco LPS a rugged and reliable sensor that performs on the plant floor. Nothing else on the market compares to the Gemco LPS.

Limit switches are contact devices that have wear problems. The Gemco LPS is non-contact. Limit and proximity switches can only give discrete position information. The Gemco LPS gives continuous position information. Incremental shaft encoders require gear trains and position information is lost with a power failure. The Gemco LPS doesn't use gear trains and position data is never lost because the sensor is absolute.

The Gemco LPS offers 0.1% accuracy of positioning (0.012" on a 1 foot sensor). The sensor comes in an IP65 enclosure. Standard lengths of 6", 12", 18", 24", 36" and 72" are in stock. Other lengths are also available.



Specifications	
Input Voltage	15 - 26 VDC
Current Draw Voltage Current	50 mA Max N/A
Output	0 - 10 VDC or 10 - 0 VDC 4 - 20 mA
Position Accuracy	0.1% of Full Stroke
Non-linearity	+/- 0.05% of Full Stroke
Repeatability	0.01% of Full Stroke
Operating Temperature 1) Head Electronics 2) Guide Tube	-4° to 158° F (-20° to 70° C) -40° to 185° F (-40° to 85° C)
Operating Pressure	3000 psi Operational, 8000 psi Spike
Span Length	1" - 96"
Null Zone	2"
Dead Zone	5"
Connectors	12mm 4 Pin Micro
Enclosure	IP65
Specifications are subject to change without notice.	

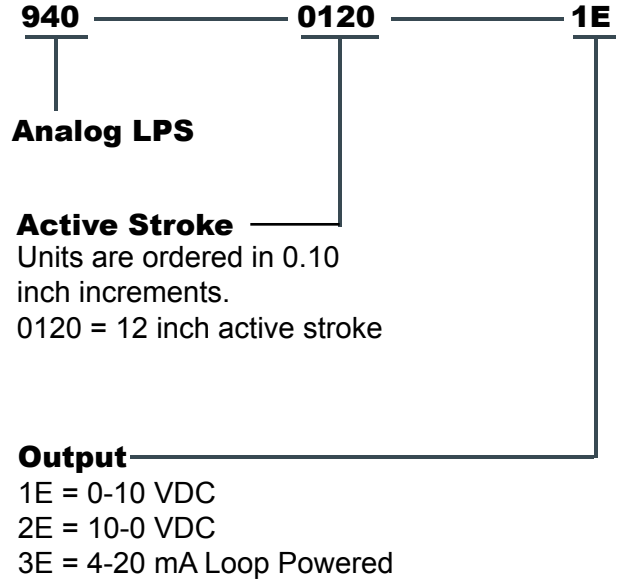


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Standard Configurations		
Output	Sensor Length in Inches	Part Number
0-10 VDC 3 Wire	6	940-0060-1E
	12	940-0120-1E
	18	940-0180-1E
	24	940-0240-1E
	36	940-0360-1E
	48	940-0480-1E
	72	940-0720-1E
	96	940-0960-1E
10-0 VDC 3 Wire	6	940-0060-2E
	12	940-0120-2E
	18	940-0180-2E
	24	940-0240-2E
	36	940-0360-2E
	48	940-0480-2E
	72	940-0720-2E
	96	940-0960-2E
4-20 mA 2 Wire Loop Powered	6	940-0060-3E
	12	940-0120-3E
	18	940-0180-3E
	24	940-0240-3E
	36	940-0360-3E
	48	940-0480-3E
	72	940-0720-3E
	96	940-0960-3E

## Non-Standard Configurations



## Dimensions & Wiring Diagram

### Wiring Diagram

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

