

LPS Linear Position Sensor



The Luminator LPS is specifically designed to provide position feedback on linear control valves and knifegate valves. Onboard Green or Red LEDs increase safety and awareness for plant operators.

- Features:
- 316 stainless steel enclosure
 - Green or Red BriteLite LEDs
 - Hermetically sealed sensors

TopWorx VIP Bracket Kits are available for most linear control valve and quarter-turn actuators worldwide.

Mounting

- Mount the LPS using the appropriate mounting kit. If utilizing two sensors, make sure one is set for "Open" and one is set for "Closed."
- Sensors are not position or axis sensitive and can be mounted in any plane.
- All wiring methods for hazardous and nonhazardous locations should be in accordance with the latest edition of the National Electrical Code and comply with all local codes.



Typical Linear Installation



Typical Rotary Installation

Testing

- To test operation with LED indication in shop prior to field connection, it is required that a constant current source be used, such as a Transmation™ or Altek™ calibrator. The Luminator is designed to operate with a load.

Caution: permanent damage will occur if a live voltage source is directly connected to a Luminator.

- A 24V power supply may be used also. A 200-1k ohm resistor should be used on the N/O leg of the switch. Many power supplies do not have clipping circuits to dampen power surges when energized and permanent damage may occur.
- A third test option is to use a 9V battery connected between COM and N/O.

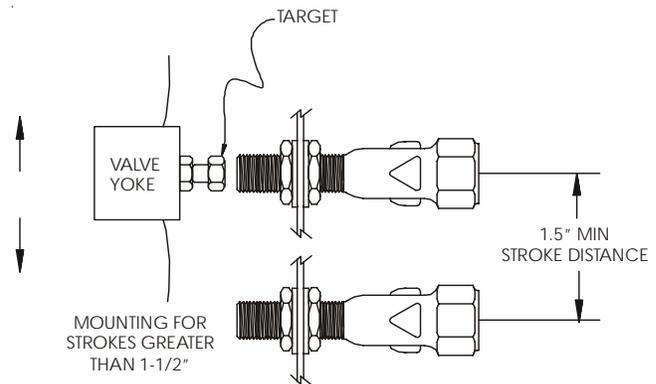
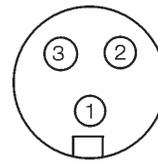
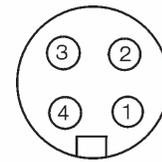


Figure 1. Target View



SPST
 Pin 1 = GND
 Pin 2 = COM
 Pin 3 = N/O



SPDT
 Pin 1 = COM
 Pin 2 = N/O
 Pin 3 = N/C
 Pin 4 = GND

Figure 2. Mini-change connectors

Contact	Seal	Rating	
		With LED	Without LED
SPST	Hermetic	0.25A @ 120VAC 0.25A @ 24VDC	3A @ 120VAC 2A @ 24VDC
SPDT	Hermetic	0.25A @ 120VAC 0.25A @ 24VDC	1A @ 120VAC 1/2A @ 24VDC

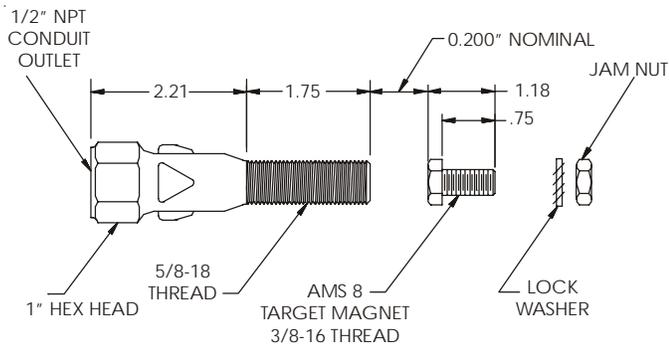


Figure 3. Dimensional Drawing

About Valvetop™

Valvetop valve networking and control devices link on/off valves to process control systems via a variety of fieldbus protocols. Valvetop valve controllers and monitors support multiple bus protocols, operate in the most demanding plant conditions, and carry a variety of global approvals. Whether your application is rotary or linear, fieldbus or conventional, hazardous or general purpose, we have a suitable solution for you.

For inquiries, contact TopWorx at:

502.969.8000
www.topworx.com
info@topworx.com

About TopWorx

TopWorx is the leader in field networking, valve control, and position sensing solutions for the process industries. Our products and services help plants, mills, and pipelines improve their performance by making it easy to implement modern automation technologies.

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TopWorx, Inc., warrants that each item of new equipment manufactured by it will be free from defects in material and workmanship under normal use and service; its obligation under this Warranty, being limited to making good, at its factory, and part of parts thereof, which shall be returned to it with transportation charges prepaid, within one year after the date of the purchase of such equipment by the original purchaser, and which its examination shall disclose to its satisfaction to have been thus defective. TopWorx, Inc., however, assumes no risk or liability for results of the use of the products purchased from it.

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This Warranty shall not apply to any equipment which shall have been repaired or altered, outside the Company's factory so as to affect such equipment's stability or reliability in the judgement of the Company.

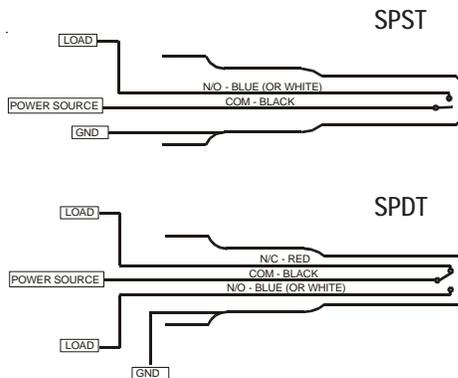


Figure 4. Schematic

NOTE: LED indication on N/O contact closure only
Switch requires a load to operate; direct power will damage switch

TOPWORX

3300 Fern Valley Road
Louisville, Kentucky 40213 USA

502.969.8000 phone
502.969.5911 fax
info@topworx.com

www.topworx.com

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