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Linear Miniature Sensor (Contactless)



LHS-mini-8/10

The Linear Non contact hall's effect Displacement transducer is used to detect the displacement of system which correspondence to the Linear motion of the shaft of the sensor.

The Output signal correspondence to 0 to 10mm. Customization in the stroke length is possible.

Since the Product is based on Contactless **Magnetic Technology** it has very long life, along with high vibration withstand capacity.

Linear Hall effect transducer is a economical product with highly good accuracy and resolution of 12bit over a full range.

The USP of the sensor being Extremely compact in size and complete metal housing with IP protection class upto Ip67 .



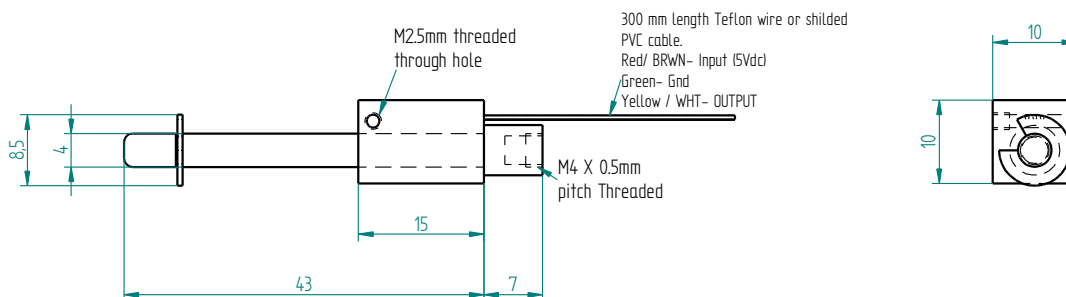
Variants

12 bit resolution 5V input and 0.5 to 4.5Vdc Analog Ratio matrix Output.
12 bit resolution PWM Output.
Spring Return and Non spring return version available.

Benefits

Non Contact Linear Position Sensor based on Magnetic Technology.
Accurate Linearity upto 1% F.S. or 0.5% F.S (on request)
Extremely Long Life.
Extremely Compact in Size.
Short Circuit, Overvoltage and Reverse polarity protected.

Mechanical Drawing



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Mechanical Specification

parameters	Range
Starting force	
Maximul Radial Load	1Kg.
Maximum Shaft Speed	100 Shaft Stroke / min
Bearing Life cycles	200 X 10 ⁶ @rated radial Load
Weight of sensor	
Shaft Dia	4mm

Magnetic Cross Talk

If two LHS units are to be installed closer than 2 inch (measured between the center of both shaft), a magnetic shield, such as a small steel plate should be installed in between to prevent one encoder from causing small changes in reported position through magnetic field cross-talk.

Material

Component	Material
Housing	Brass
Shaft	Stainless

Temperature

Parameter	Value
Operating Temperature	-40 to 75 deg (standard) -40 to 140 deg (on request)
Storage Temperature	-40 to 75 degC

Ordering Information

LHS - Mini - Spring - Stroke - 5 - Output range or Type - Outer conn. - Any specific Info.
 return Length
 S- Spring 5-5mm 0545-0.5 to 4.5Vdc S - standard shielded
 return 10-10mm PWM cable
 Blank-No spring return T- Teflon Fly wire.

For Example: LHS-Mini-8/10-10-50545-S





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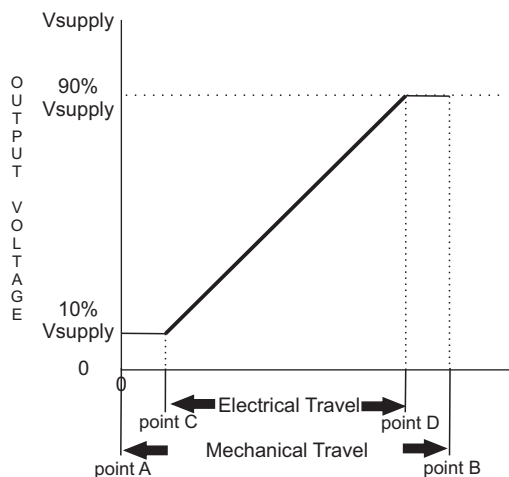
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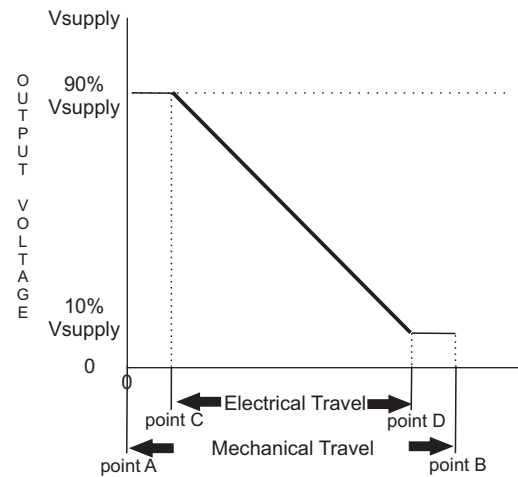
LHS-mini-8/10

Electrical Analog Output

OPTION 1



OPTION 2



Paameters	Results
Supply Voltage (Vsupply)	5Vdc(+/- 10%)
Supply Current	20mA
Response time	50mS
Resolution	12bit @ full stroke
Load Resistance	Minimum 10k ohms (preferred >100k ohms)
Output (Voutput)	10% to 90% Vsupply (Ratiomatic) @ 5V supply
Electrical Travel	10mm standard. (other on request maximum 20mm)
Mechanical Travel	12mm standard. (other on request maximum 22mm)
Linearity	1% Independent Linearity (Available 0.5% on request)

Signal Converter cards are available for 0 to 10Vdc, 4 to 20mA or any other digital communication protocol based on requirement.



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