



POTEL
Believe in serving

LVDT- DC (10mm \varnothing)



LHS-10-XX

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.

LHS-10 is based on the working system of Hollow LVDT hence a axial play in the system does not damages the sensor. Along with that electrically as well as mechanically contactless makes the life infinite

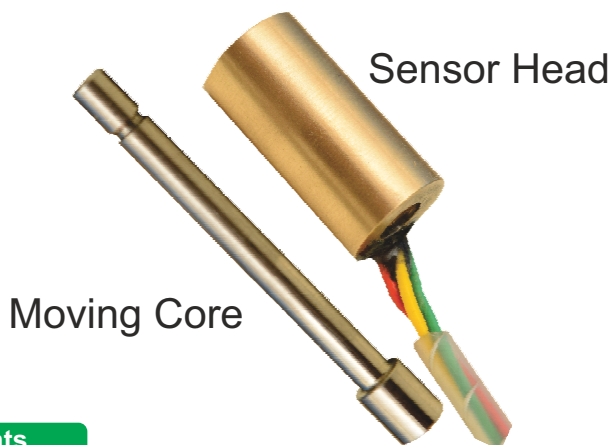
The Output signal correspondence to 0 to 10mm. Customization in the stroke length is possible.

Since the Product is based on Contactless **Hall's effect 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 .

Hollow DC LVDT



Spring return



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 Hall Effect 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.



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POT-TECH Electronics(Bombay) Pvt. Ltd.

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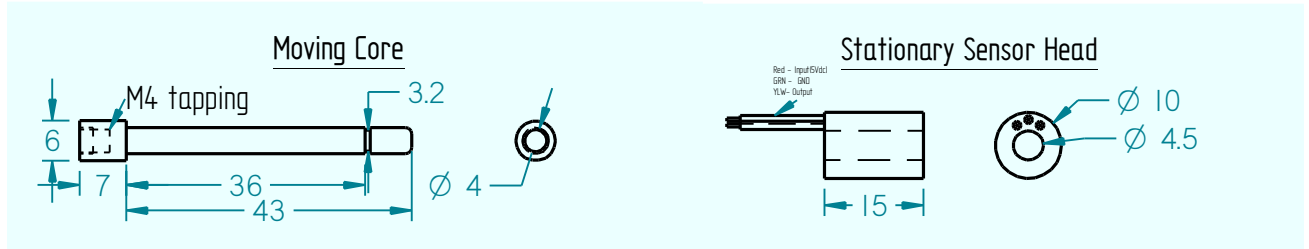
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Mechanical



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Magnetic Cross Talk

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

Material

Component	Material
Housing	Brass
Shaft	Stainless

Environment

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

Ordering Information

LHS - 10 - Spring - return Stroke - Length 5 - Output range or Type - Outer conn. - Any specific Info.

S- Spring return 5-5mm 0545-0.5 to 4.5Vdc S - standard shielded cable

Blank-No spring return 10-10mm PWM T- Teflon Fly wire.

For Example: LHS-10-10-50545-S



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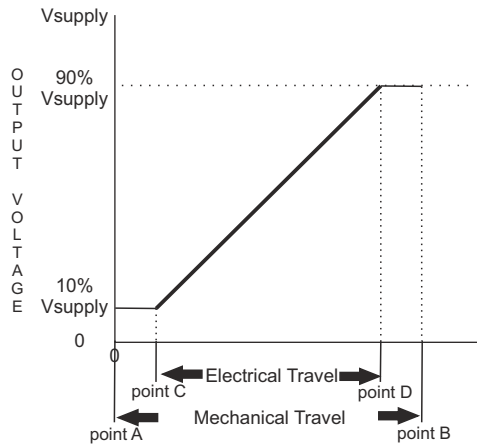
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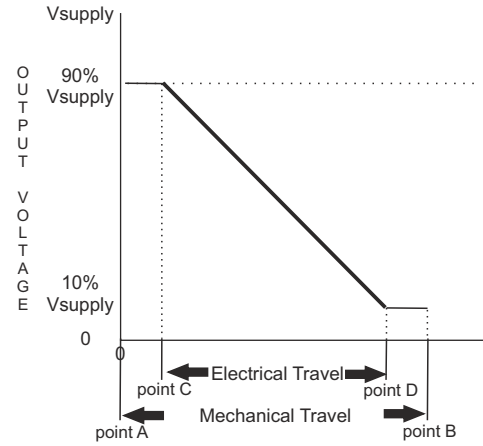
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Electrical Analog Output

OPTION 1



OPTION 2



Paameters	Results
Supply Voltage (V_{supply})	5Vdc(+/- 10%)
Supply Current	20mA
Response time	50mS
Resolution	12bit @ full stroke
Load Resistance	Minimum 10k ohms (preferred >100k ohms)
Output (V_{output})	10% to 90% V_{supply} (Ratiometric) @ 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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ERROR: undefined
OFFENDING COMMAND: Linear

STACK:

```
(8)
/Title
()
/Subject
(D:20180427121714+05'30')
/ModDate
()
/Keywords
(PDFCreator Version 0.9.5)
/Creator
(D:20180427121714+05'30')
/CreationDate
(Admin)
/Author
-mark-
{/ColorRendering --findresource-- --setcolorrendering-- }
{--pop-- }
true
/DefaultColorRendering
```