

Magnetostrictive Linear Position Potentiometer

Non Contact Linear Position Sensors

Features :

- All-in-one design, durable and economical
- The best choice to replace electronic ruler and LVDT
- Non-contact measurement with robust push-pull rod that never wears out
- Absolute position output, no need to return to zero
- Nonlinearity, less than $\pm 0.05\%$ of full scale
- Repeatability, better than $\pm 0.002\%$ of full scale



Technical parameter

Measuring range	50~1500mm
Operating Voltage	24VDC (-15/+20%) overvoltage protection, reverse polarity protection
output signal	4 ~ 20mA,, 0 ~ 10Vdc, 0 ~ 5Vdc
Performance	Non-linearity < ±0.05%F.S., repeatability < ±0.002%F.S.
Resolution	16-bit D/A
Operating temperature	- 40°C ~ +85°C
Stem material	Aluminum alloy
Protection class	IP65
Installation method	External installation, fixed clip (M5*20 screw)
Way out	Hirschmann plug

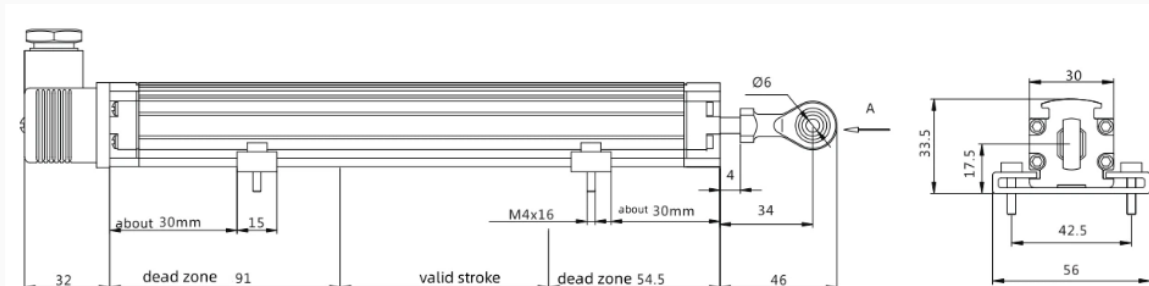
working conditions

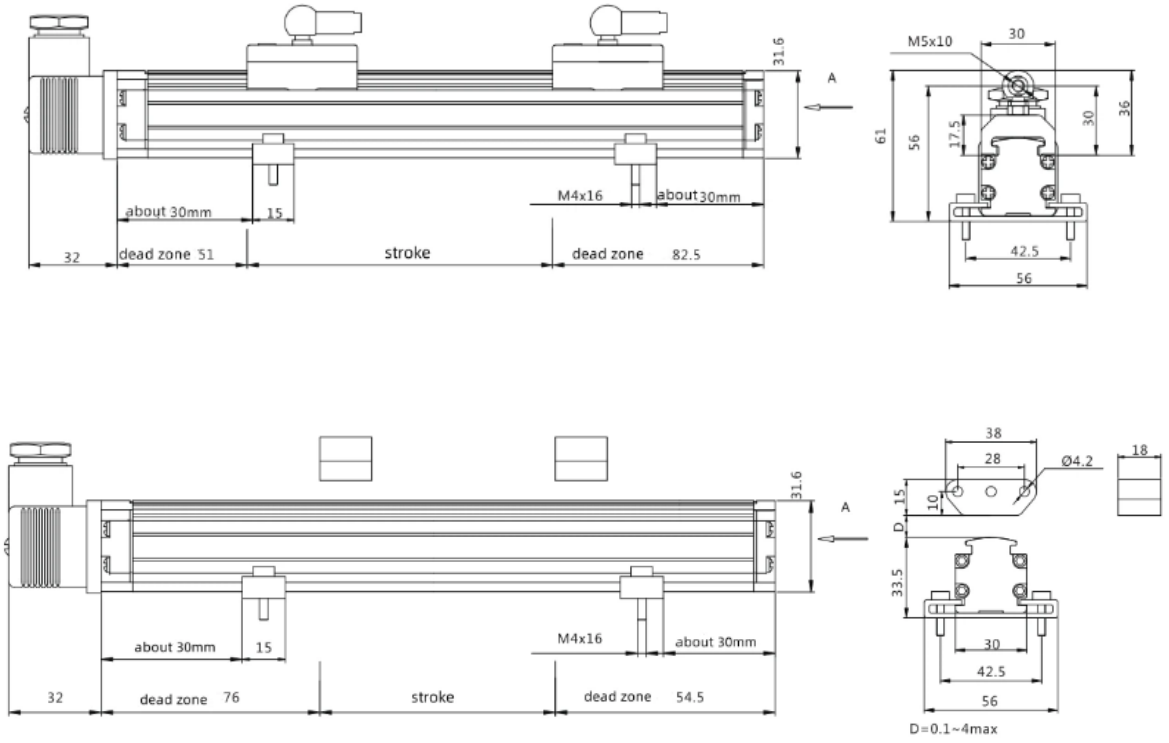
Magnet speed	any
Ambient temperature	-40°C~+85°C
Humidity/Dew Point	Humidity 90%, no condensation
Temperature Coefficient	<±0.007%F.S/°C
Electrical protection	IP65

Structure and Materials


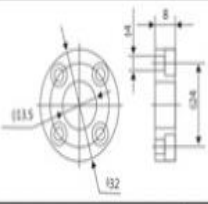

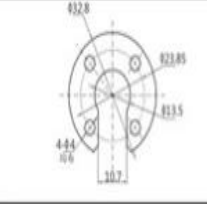

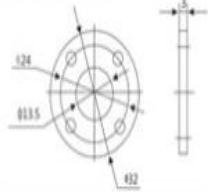

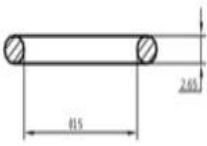
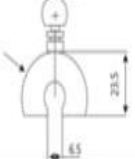
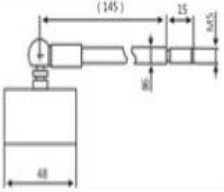

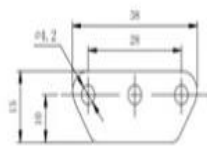

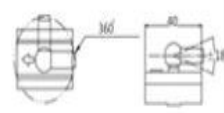

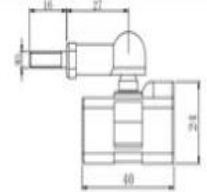

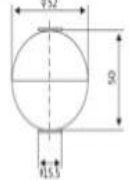

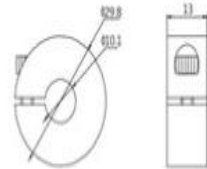
Sensor head	built-in
Sensor body	Aluminum molded housing
Position Magnet	Slider Magnet, Suspension Magnet

Dimension





Part List

<p>closed magnetic ring</p> 		<p>split ring</p> 	
<p>Non-magnetic conductive gasket</p> 		<p>O-ring</p> 	
<p>slider magnet</p> 		<p>hover slider</p> 	
<p>Rail slider</p> 		<p>slider magnet 2</p> 	
<p>float ball</p> 		<p>locking ring</p> 	

Application

Metallurgical rolling mill
 Water gate control
 wind power
 Injection molding machine
 Rubber machinery
 Hydraulic cylinder servo control
 Gas station
 oil depot
 Pharmaceutical, Food Reactor
 filling machine