

# Linear Wire Potentiometers



- Precision Measurement
- High Stability
- Long Life

## Introduction to linear wire potentiometer

Linear wire potentiometer /encoder is a ingenious combination of rotary sensors and linear sensors ,with longer sensing scope ,same measurement precise ,smaller structure ,which are widely adopted by customers from different fields .this series of sensors have sensing scope from 100mm to 50000mm,with output of analog current signal 4~20mA ,anolog voltage signal 0~5V or 0~10V and digital pulse A、 B、 Z phase signal output. OEM orders are warmly welcome.

## FOR INSTALLATION

- 1.To install stainless steel wire ,the angle of wire should be got proper and minimal, the allow tolerance is at $\pm 30^\circ$ .
- 2.To make sure that the hook of the stainless steel wire does not exceed the measurement range ,otherwise ,the wire will be to break off or you will get inferior accuracy.
- 3.The wire is stainless steel with fluorin coating. You will get inferior accuracy if the wire is damaged or stretched excessively.
- 4.If your application is not linear motion, please set the pulley to smooth the rotation.
- 5.If the products work under serious environments, such as oil, water, heavy dust, iron chipping or shavings or any powder can cause to hurt the wire, please make more protective cover or other equipment.
- 6.The acceleration for XS, S and M series is under 2m/sec<sup>2</sup>, and speed below 1m/sec; the acceleration for L and XL series is under 1.5m/sec<sup>2</sup>, and speed below 0.75m/sec.

# Linear Wire Potentiometers



## Specifications

- PRECISION ANALOG CURRENT 4~20mA SIGNAL OUTPUT
- SUITABLE FOR SHORT TO MEDIUM MEASUREMENT RANGE

### ELECTRICAL SPEC.

Effective Stroke(mm)	10000mm
Output Signal Mode	0~5K/0~10K ohm, 0~5Vdc/0~10Vdc, 4~20mA
Linearity	0.15%FS(standard class); ±0.08%FS(precision class)
Repeatability	±0.01FS
Resolution	Essentially infinite
Measurement Wire	Diameter 0.78mm, SUS304 with fluorin-coated
Sensor	Wire-winding and hybrid potentiometer
Traction	650 ± 70g
Weight	2000g
Recommended Input Voltage	15~24Vdc

### ENVIRONMENTAL SPEC.

Operating Temp.	-20°C ~ +80°C
Storage Temperature	-20°C ~ +80°C
Vibration	20g, 2000Hz
Protection	IP67

# How to order

MPS--L--500--R      Add information:

Output mode:

- R:resistance output
- V1:voltage output within 0-5VDC
- V2:Voltage output within0-10VDC
- A2: 2 wires current output with 4-20mA
- A3: 3 wires current output with 4~20mA
- P: incremental pulse phase output AB phase or ABZ phase

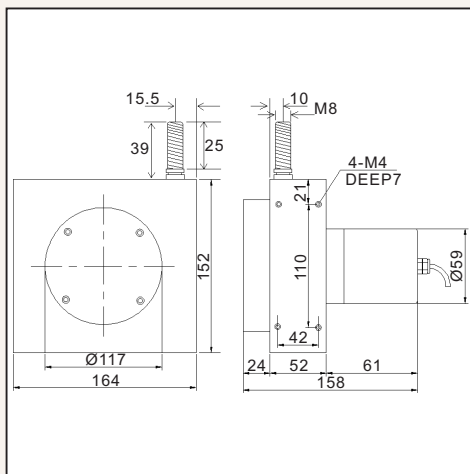
Effective measurement range

Installation model

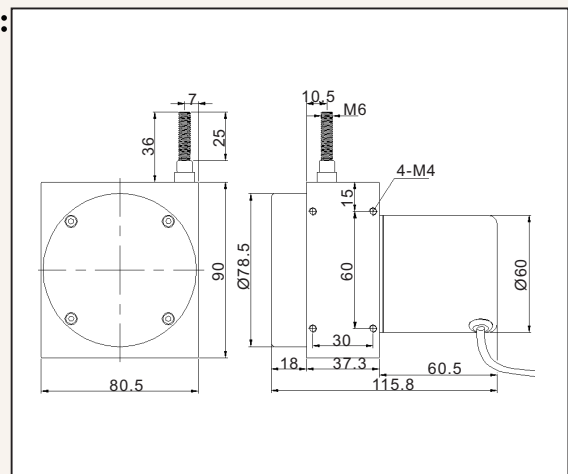
MPS:Linear wire potentiometer/encoder Mark

## Installation model:

**L:**



**M:**



**S:**

