

# Linear Potentiometer Transducer

## Description:

KTF Position Tracking Sensor (alias: resistance ruler, potentiometer, displacement sensor) principle: potentiometer principle, all sensors are position measurement type, used in adjustment system (control system) and measurement system, direct displacement and length Measure and output DC voltage signal, or convert the signal into standard 0-5V, 0-10V or 4-20mA DC signal through the built-in or external V/A transmission module, and can also transmit control requirements over long distances. KTF slider type electronic ruler (alias: resistance ruler, potentiometer, displacement sensor) output displacement change: 0-100% given input working voltage (varies with displacement)



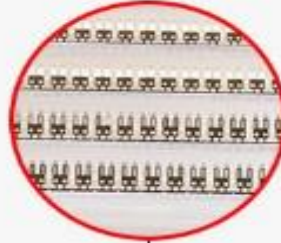
## Output type

Resistance output type (potentiometer): 5k $\Omega$ , 10k $\Omega$ , 20k $\Omega$ ,  
Voltage output type (external/built-in module): 0-5V, 0-10V,  
Current output type (external/built-in module): 4-20MA (two-wire, three-wire),  
Digital signal (external/built-in module): RS485,

Hessman plug,  
Compatible with a variety of devices,  
Stable signal transmission



Imported brush  
full flexibility and long service life



Movable linear plastic slider  
Suitable for most occasions



Hessman plug,  
Compatible with a variety of devices,  
Stable signal transmission



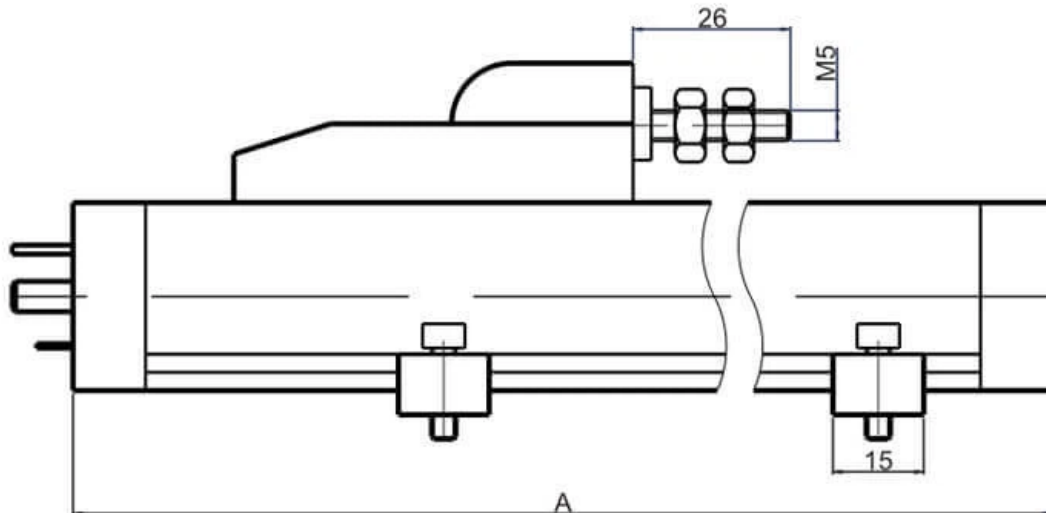
Pull rod ball joint, 0.5mm automatic alignment  
Stable output and good consistency

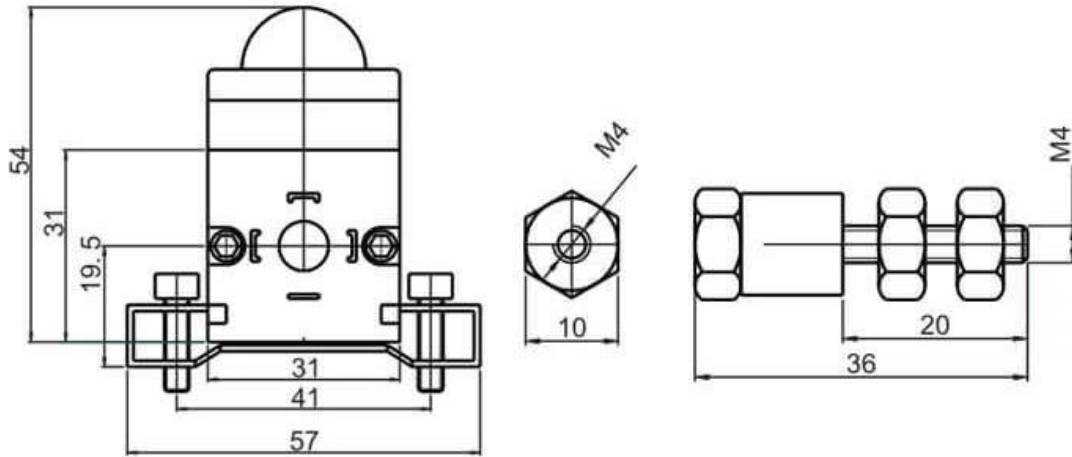


## Technical Parameter

Measuring stroke	75-2500mm
Linearity	±0.05%
Repeated	<0.01mm
Resolution	Infinite
Resistance	5KΩ/10KΩ/20KΩ
Resolution tolerance	±20%
Load resistance	>100KΩ
Allow power supply voltage	28V
Displacement speed	<5m/s
Shell materials	Anodized aluminum
Rod materials	Stainless steel
Rod diameter	Φ6mm
Mechanical fixation	Adjustable
IP DEGREE	IP65
Working temperature	-40°C-80°C

## Dimensions & Structure





**Dimension**



Model Number

**KTF-R-300**

Stroke Length

**300 mm**

Output Signal

**Resistance**

Supply Voltage

**10-24V DC**

**KTF Slide Type Linear Displacement Sensor**

**Accessories**



**Resistance Output**



**Current/Voltage Output**

## Accessories:

- ◆ 2 mounting brackets
- ◆ A wiring harness with cap
- ◆ A ball joint attachment
- ◆ 4 mounting screws

## Application

KTF Position Tracking Sensor is a miniaturization of general-purpose installation, especially suitable for reducing the installation size in the mechanical length direction, and is suitable for applications with larger strokes. Such as: large injection molding machine clamping stroke, rubber machine clamping stroke, woodworking machinery, hydraulic machinery.