

Conductive Plastic Linear Sensor

# LP-F-65 Series

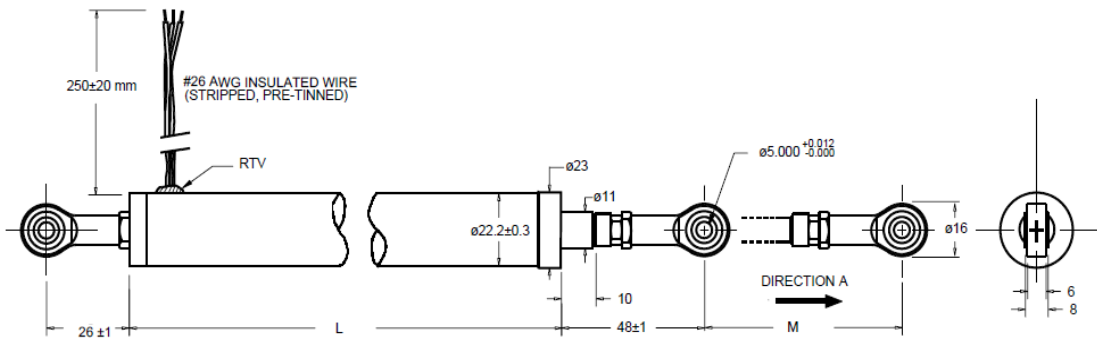


- Conductive Plastic Linear Sensor
- Effective Electrical Travel : 100 mm ± 0.5mm (LP-100F-65)  
: 150mm ± 0.5mm (LP-150F-65)  
: 200mm ± 1mm (LP-200F-65)  
: 250mm ± 1mm (LP-250F-65)  
: 300mm ± 1mm (LP-300F-65)
- Independent Linearity : ±0.3% (Special Linearity ± 0.1%)
- Dust and Drip Proof : IP 54

**[Material]**

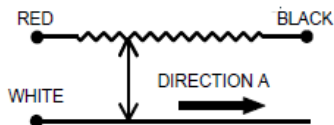
- Housing : Alminum
- Shaft : Stainless Steel
- Bearing : Copper Alloy

## ■ Dimention (mm)

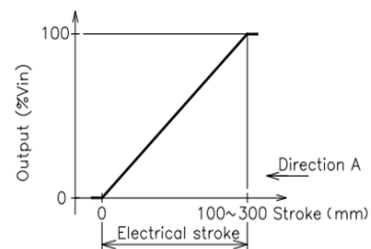


[Model No.]	LP-100F-65	LP-150F-65	LP-200F-65	LP-250F-65	LP-300F-65
Housing Length (L)	145mm ±1mm	195mm ±1mm	245mm ±1mm	295mm ±1mm	345mm ±1mm
Mech. Stroke (M)	103mm ±2mm	153mm ±2mm	203mm ±2mm	253mm ±2mm	303mm ±2mm

## ■ Schematic



## ■ Output Characteristics



[Model No.]	LP-100F-65	LP-150F-65	LP-200F-65	LP-250F-65	LP-300F-65
<b>Electrical Specifications</b>					
Effective Electrical Travel	100 mm± 0.5 mm	150 mm± 0.5 mm	200 mm± 1 mm	250 mm± 1 mm	300 mm± 1 mm
Total Resistance	1K, 2K, 5K, 10K Ω			2K, 5K, 10K Ω	
Total Resistance Tolerance	± 20 %				
Independent Linearity	± 0.3 % (Special Linearity ± 0.1%)				
Rated Dissipation	2.5W/70°C	3W/70°C	4 W/70°C		
Output Smoothness	MAX. 0.1%				
Insulation Resistance	MIN. 100MΩ/DC 500V				
Dielectric Strength	AC500 V/ 1 Minute				
Temperature Coefficient of Resistance	±400 ppm/K				
<b>Mechanical Specifications</b>					
Friction	MAX. 4 N				
IP Level	IP 54				

#### ■ Options

LP-400F-65 : Effective Electrical Travel 400mm±1mm

#### ■ Handling Instruction

- To avoid burnout of resistive element, do not supply more than 1mA current to terminal WHITE.
- Miswiring might cause burnout of resistive element.
- To reduce sliding noise, add load resistance should be more than 100times and less than 1000times of total resistance.
- Slight continuous vibration such as dither might cause short lifetime of the sensor.