

Conductive Plastic Linear Sensor

LP-F-62 Series

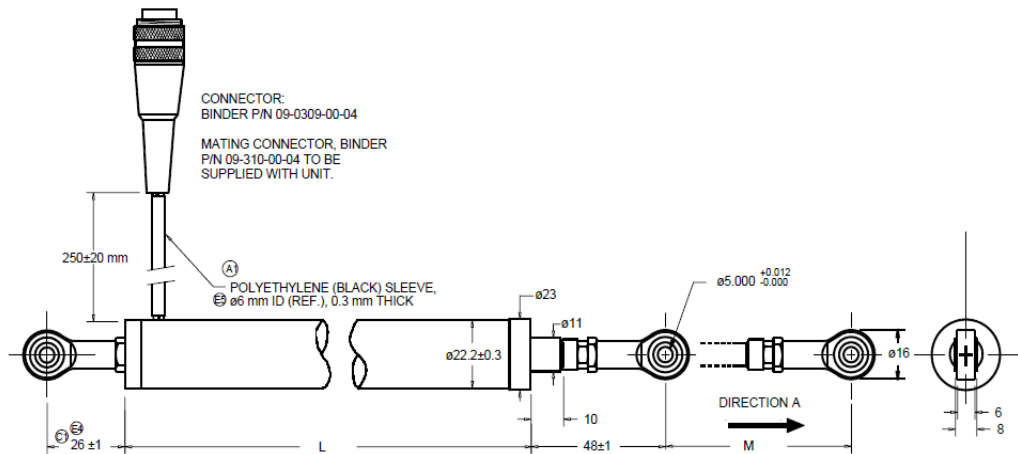


- Conductive Plastic Linear Sensor
- Effective Electrical Travel : 100 mm ± 0.5mm (LP-100F-62)
: 150mm ± 0.5mm (LP-150F-62)
: 200mm ± 1mm (LP-200F-62)
: 250mm ± 1mm (LP-250F-62)
: 300mm ± 1mm (LP-300F-62)
- Independent Linearity : ±0.3% (Special Linearity ± 0.1%)

[Material]

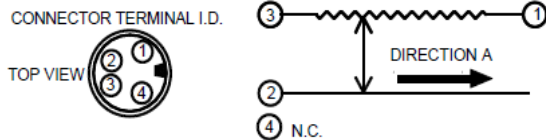
- Housing : Alminum
- Shaft : Stainless Steel
- Bearing : Copper Alloy

■ Dimention (mm)

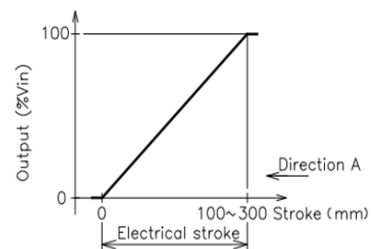


[Model No.]	LP-100F-62	LP-150F-62	LP-200F-62	LP-250F-62	LP-300F-62
Housing Length (L)	145mm ±1mm	195mm ±1mm	245mm ±1mm	295mm ±1mm	345mm ±1mm
Mech. Stroke (M)	103mm ±2mm	153mm ±2mm	203mm ±2mm	253mm ±2mm	303mm ±2mm

■ Schematic



■ Output Characteristics



[Model No.]	LP-100F-62	LP-150F-62	LP-200F-62	LP-250F-62	LP-300F-62
Electrical Specifications					
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				
Mechanical Specifications					
Friction	MAX. 2 N				

■ Options

LP-400F-62 : Effective Electrical Travel 400mm±1mm

■ Accessories

FEMALE Connector : Binder P/N 09-0309-00-04

■ Handling Instruction

- To avoid burnout of resistive element, do not supply more than 1mA current to terminal 2.
- 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.