Conductive Plastic Linear Sensor

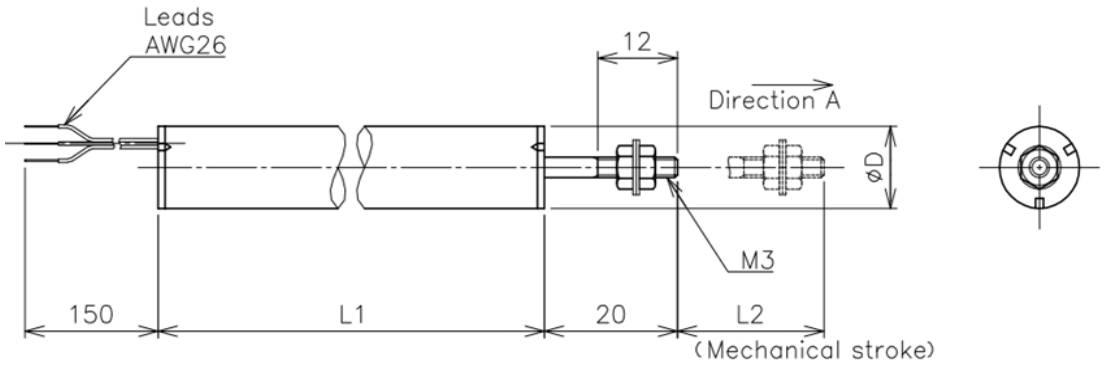
LP-FP Series

- Conductive Plastic Linear Sensor
- Effective Electrical Travel : 20 mm ±0.5mm (LP-20FP)
  : 30mm ± 0.5mm (LP-30FP)
  : 50mm ± 0.5mm (LP-50FP)
- Independent Linearity : ±1%
- Ratio Output

【Material】

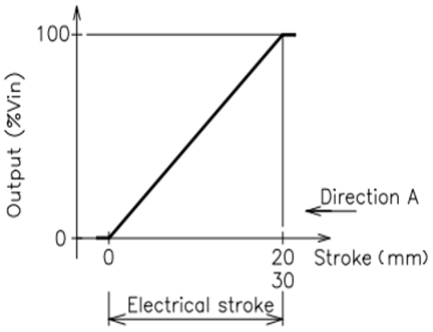
- Housing : Aluminum
- Shaft : Stainless Steel
- Bearing : Copper Alloy

■ Dimension (mm)

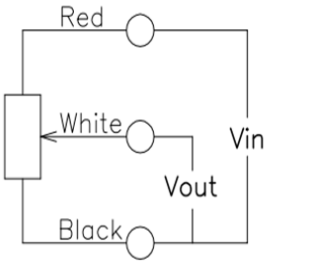


【Model No.】	LP-20FP	LP-30FP	LP-50FP
Housing Length (L1)	48 mm	58 mm	78 mm
ΦD	Φ 12 mm		
Mech. Stroke (L2)	22 mm ± 1 mm	32mm ± 1 mm	52mm ± 1 mm

■ Output Characteristics



■ Schematic



・Red,White,Black indicate lead colors.

【Model No.】	LP-20FP	LP-30FP	LP-50FP
Electrical Specifications			
Effective Electrical Travel	20 mm ± 0.5 mm	30 mm ± 0.5 mm	50 mm ± 0.5 mm
Total Resistance	1 K Ω		
Total Resistance Tolerance	± 20 %		
Independent Linearity	± 1 %		
Rated Dissipation	0.6W/70℃	0.9W/70℃	1.5W/70℃
Output Smoothness	MAX. 0.1%		
Insulation Resistance	MIN. 100MΩ/DC 500V		
Dielectric Strength	AC500 V/ 1 Minute		
Temperature Coefficient of Resistance	±1000 ppm/K		
Mechanical Specifications			
Friction	MAX. 0.4 N		
Mass	Approx. 18 g	Approx. 20 g	Approx. 25 g

■ Accessories

M3 Nut
Plain Washer　　2 pieces each

■ 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.