

Conductive Plastic Linear Sensor

LP-FP-25 Series

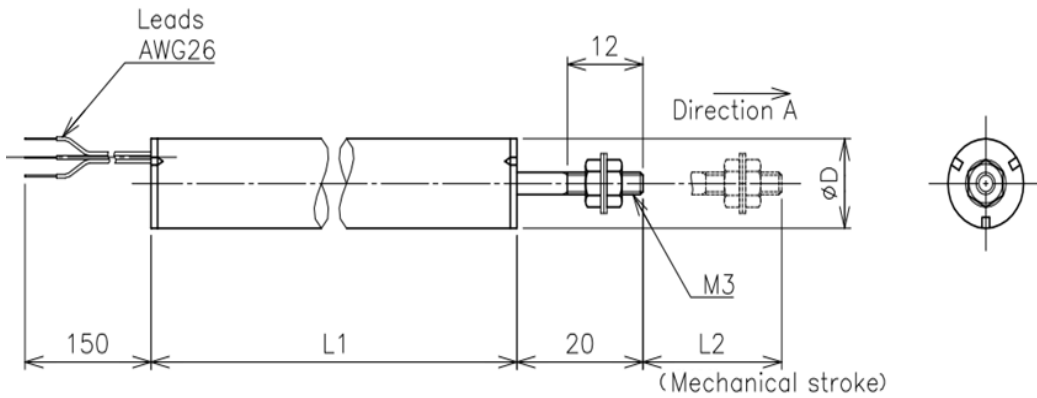


- Conductive Plastic Linear Sensor
- Effective Electrical Travel : 20 mm ± 0.5mm (LP-20FP-25)
: 30mm ± 0.5mm (LP-30FP-25)
: 50mm ± 0.5mm (LP-50FP-25)
- Independent Linearity : ±1%
- Hysteresis : 0.05mm MAX.

[Material]

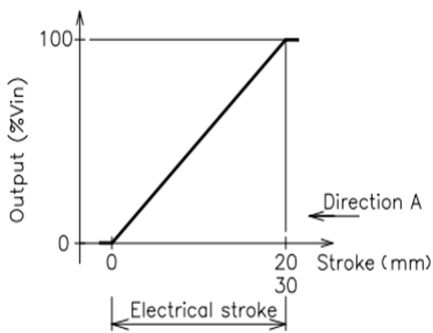
- Housing : Aluminum
- Shaft : Stainless Steel
- Bearing : Copper Alloy

Dimension (mm)

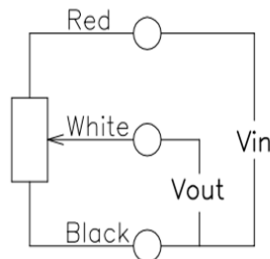


[Model No.]	LP-20FP-25	LP-30FP-25	LP-50FP-25
Housing Length (L1)	48 mm	58 mm	78 mm
ΦD	Φ 12 mm		
Mech. Stroke (L2)	22 mm ± 1 mm	32mm ± 1 mm	52mm ± 1 mm

Output Characteristics



Schematic



• Red,White,Black indicate lead colors.

[Model No.]	LP-20FP-25	LP-30FP-25	LP-50FP-25
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°C	0.9W/70°C	1.5W/70°C
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		
Hysteresis	0.05mm MAX.		
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 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.