Conductive Plastic Linear Sensor

MIDORI **LP-FP Series**

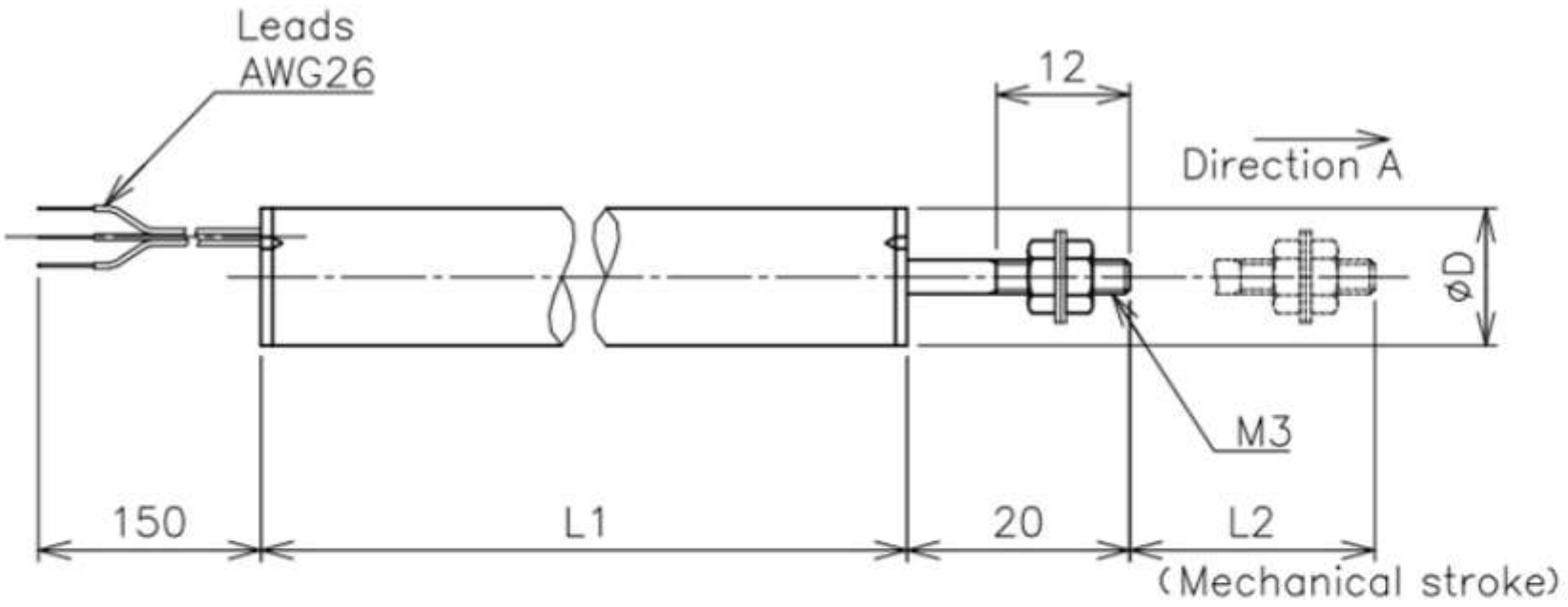
General

- Conductive Plastic Linear Sensor
- Effective Electrical Travel: 20mm (LP-20FP)
  : 30mm (LP-30FP)
  : 50mm (LP-50FP)
- Independent Linearity: ±1%
- Compact Size: Φ12mm

Material

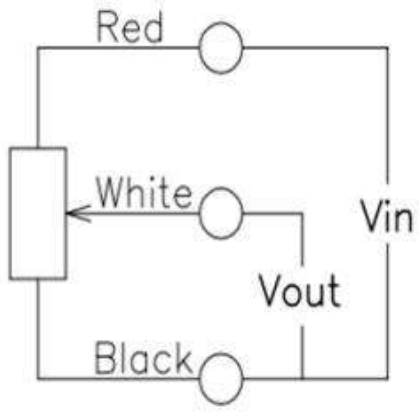
- Housing: Aluminum
- Shaft: Stainless Steel
- Bearing: Copper Alloy

Dimension (mm)



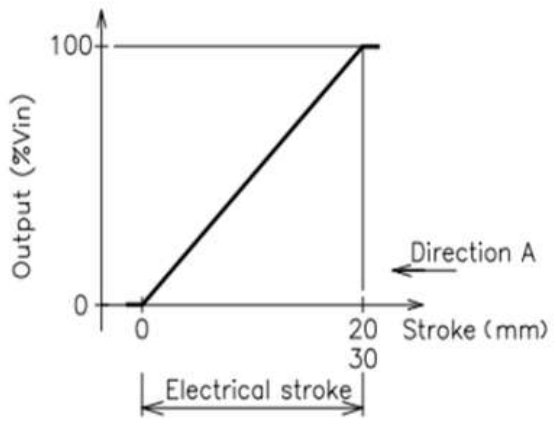
【Model No.】	LP-20FP	LP-30FP	LP-50FP
Housing Length (L1)	48 mm	58 mm	78 mm
ΦD	Φ 12 mm		
Mech. Stroke (L2)	22 mm ± 1 mm	32mm ± 1 mm	52mm ± 1 mm

Schematic



・Red,White,Black indicate lead colors.

Output Characteristics



Specifications

	LP-20FP	LP-30FP	LP-50FP
Electrical Specifications			
Effective Electrical Travel	20mm ±0.5mm	30mm ±0.5mm	50mm ±0.5mm
Total Resistance		1K Ω	
Total Resistance Tolerance		±20%	
Independent Linearity		±1%	
Rated Dissipation	0.6W/70℃	0.9W/70℃	1.5W/70℃
Output Smoothness		0.1% MAX.	
Insulation Resistance		100MΩMIN./DC500V	
Dielectric Strength		AC500V/ 1Minute	
TC of Resistance		±1000ppm/K	
Mechanical Specifications			
Friction		MAX. 0.4N	
Mass	Approx. 18g	Approx. 20g	Approx. 25g

Accessories

M3 Nut, Plain Washer 2pieces 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.**
- **Do not apply high temperature solder on the terminals.**