

Conductive Plastic Linear Sensor

LP-50F Series

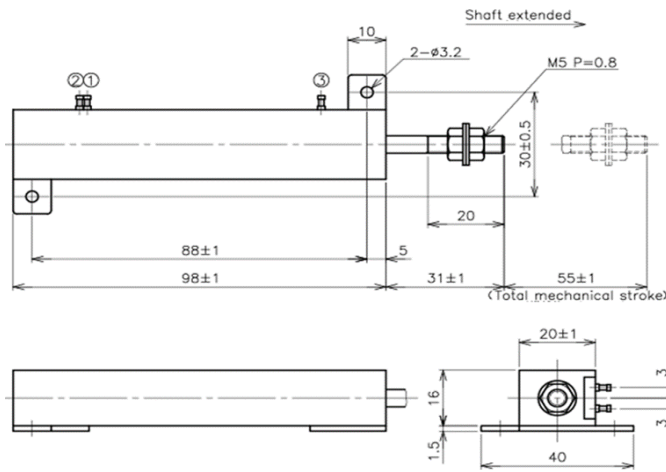


- Conductive Plastic Linear Sensor
- Effective Electrical Travel : 50mm ±0.5mm
- Independent Linearity : ±0.5%

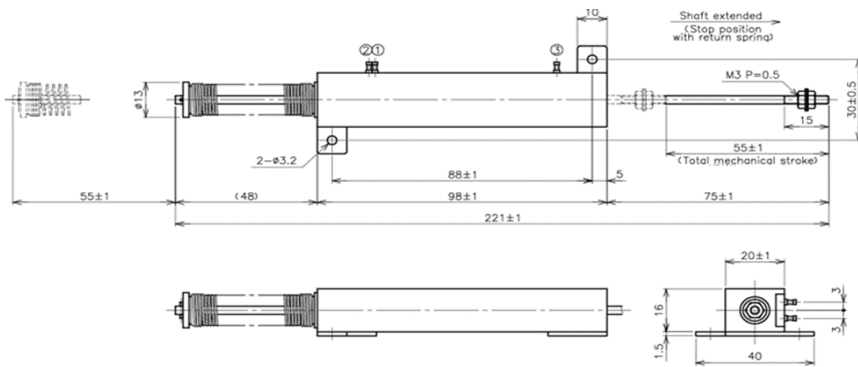
LP-50F : without Return Spring
 LP-50FB : with Return Spring

■ Dimension (mm)

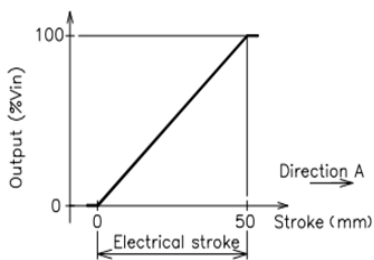
LP-50F



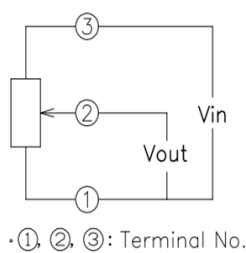
LP-50FB



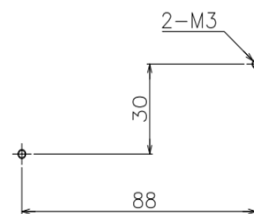
■ Output Characteristics



■ Schematic



■ Mounting



[Model No.]	LP-50F	LP-50FB
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Electrical Specifications

Effective Electrical Travel	50 mm ± 0.5 mm	
Total Resistance	1K, 2K, 5K, 10K Ω	
Total Resistance Tolerance	±20%	
Independent Linearity	±0.5 %	
Rated Dissipation	1.5 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

Total Mechanical Travel	55 mm ± 1mm	
Friction	MAX. 0.5 N	MAX. 1.7 N (Spring Strength)
Mass	Approx. 75 g	

Environmental Specifications

Life Cycles	5 Million MIN. Cycles	
Category Temperature Range	-40 ~ +100 °C	
Storage Temperature Range	-40 ~ +100 °C	
Vibration	100m/S ² 500Hz 3 axis 2 hours each	
Shock	500m/S ² 11ms 6 directions 3 times	

■ Accessories

LP-50F	M5 nut		
	Plain Washer	2 pieces each	
LP-50FB	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.
- Do not apply high temperature solder on the terminals.