

Conductive Plastic Linear Sensor

LP-10F Series



LP-10F : w/o Return Spring
LP-10FB : w/ Return Spring

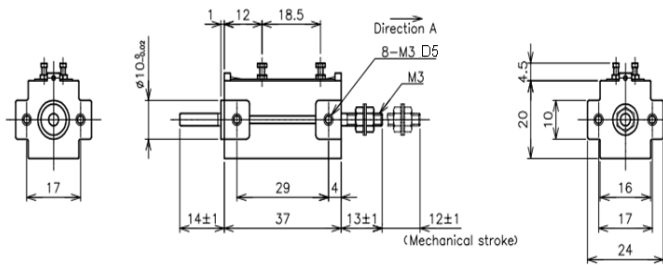
- Conductive Plastic Linear Sensor
- Effective Electrical Travel : 10mm ± 0.5mm
- Independent Linearity : ±1%

[Material]

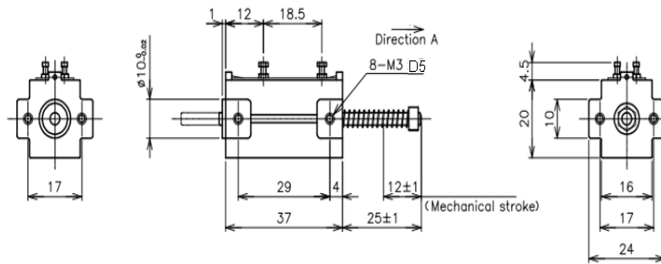
- Housing : Aluminum
- Shaft : Stainless Steel
- Bearing : Copper Alloy

■ Dimension (mm)

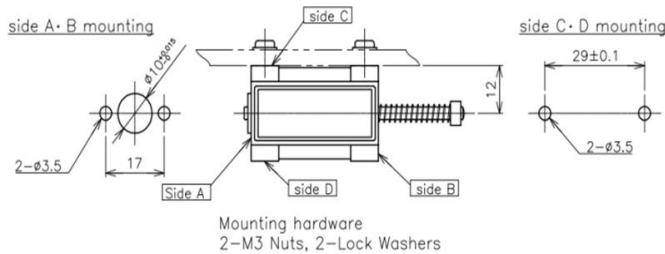
LP-10F



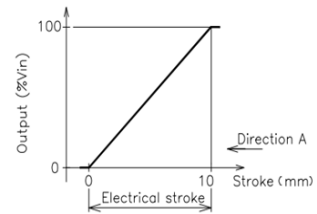
LP-10FB (With Return Spring)



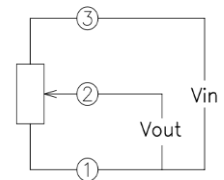
■ Mounting



■ Output Characteristics



■ Schematic



①, ②, ③: Terminal No.

[Model No.]	LP-10F	LP-10FB
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Electrical Specifications

Effective Electrical Travel	10 mm ± 0.5 mm	
Total Resistance	1K Ω	
Total Resistance Tolerance	±20%	
Independent Linearity	±1%	
Rated Dissipation	0.3W/50°C	
Output Smoothness	0.1% MAX.	
Insulation Resistance	100MΩ/DC 500V MIN.	
Dielectric Strength	AC500 V/ 1 Minute	
Temperature Coefficient of Resistance	±1000 ppm/K	

Mechanical Specifications

Total Mechanical Travel	12mm ± 1mm	
Friction	0.3 N MAX.	3 N (Spring Strength) MAX.
Mass	Approx. 60g	

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 6directions 3times	

■ Accessories

M3 NUT

Plain Washers 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.