

Conductive Plastic Linear Sensor

MIDORI LP-10F Series



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

General

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

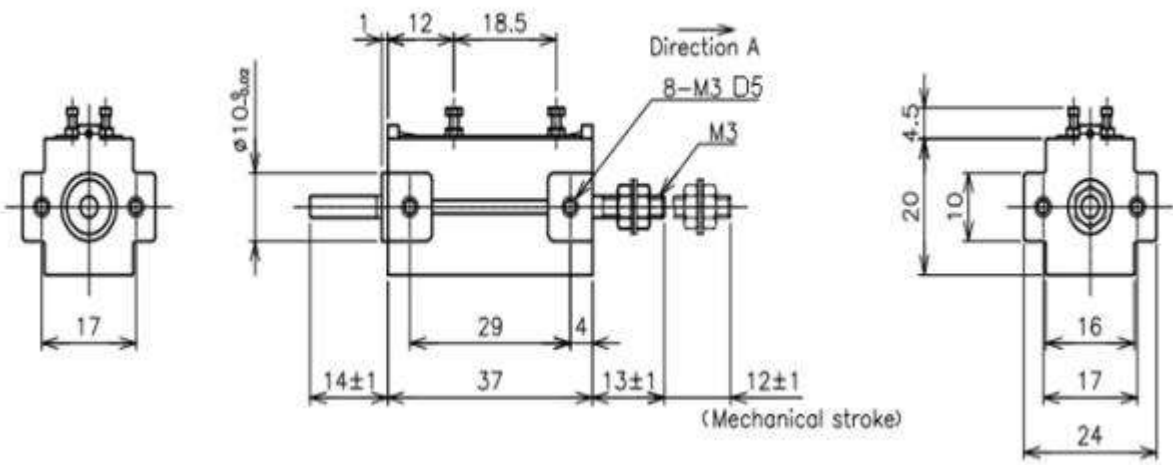
LP-10F: w/o Return Spring
LP-10FB: w/ Return Spring

Material

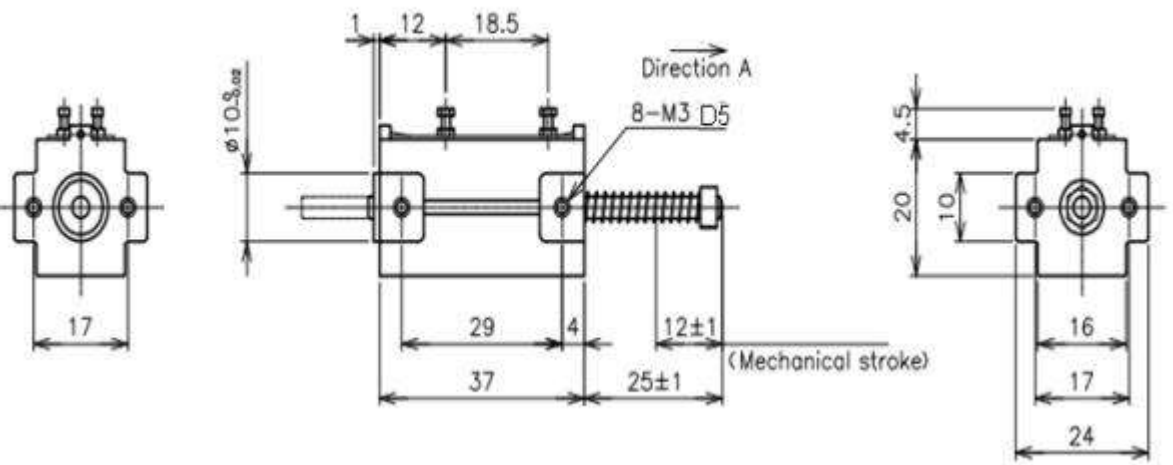
- Housing: Aluminum
- Shaft: Stainless Steel
- Bearing: Copper Alloy

Dimension (mm)

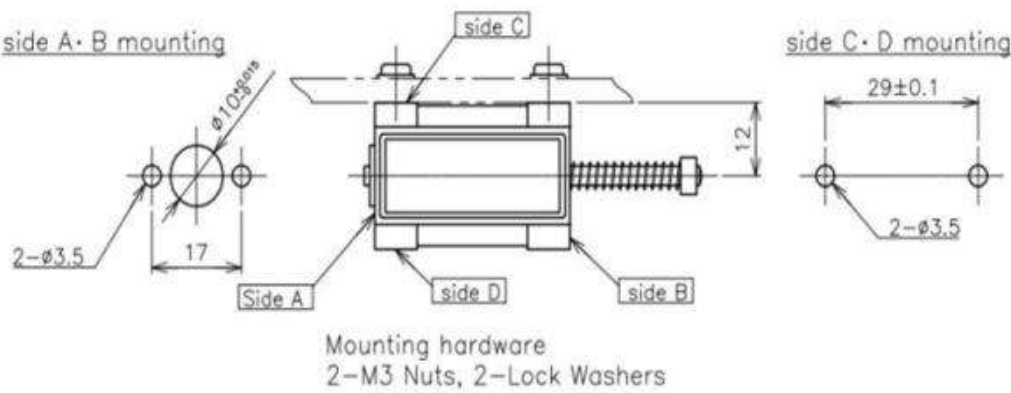
LP-10F



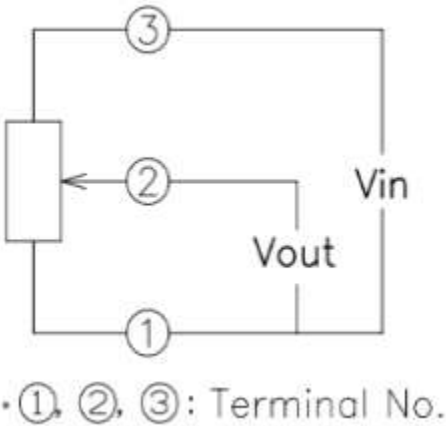
LP-10FB (With Return Spring)



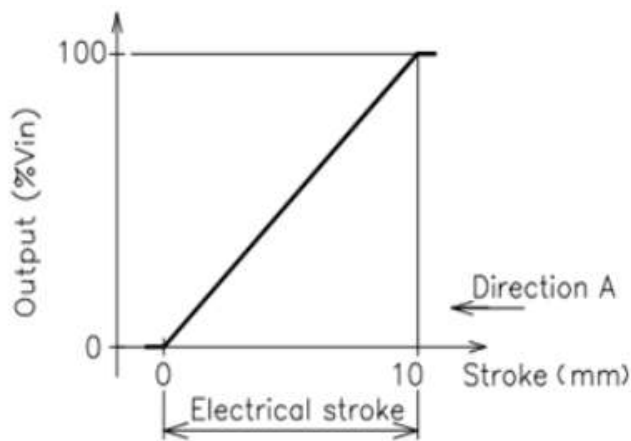
Mounting(mm)



Schematic



Output Characteristics



Specifications

	LP-10F	LP-10FB
	<w/o Return Spring>	<w/ Return Spring>
Electrical Specifications		
Effective Electrical Travel	10mm ±0.5mm	
Total Resistance	1K Ω	
Total Resistance Tolerance	±20%	
Independent Linearity	±1%	
Rated Dissipation	0.3W/ 50°C	
Output Smoothness	0.1% MAX.	
Insulation Resistance	100MΩMIN./DC500V	
Dielectric Strength	AC500V/ 1Minute	
TC of Resistance	±1000ppm/K	
Mechanical Specifications		
Total Mechanical Travel	12mm±1mm	
Friction	0.3N MAX.	3N (Spring Strength) MAX.
Weight	Approx. 60g	
Environmental Specifications		
Life Cycles	5 Million cycles MIN.	
Category Temp. Range	-40~+100°C	
Storage Temp. Range	-40~+100°C	
Vibration	100m/S2 500Hz 3axis 2hours each	
Shock	500m/S2 11ms 6directions 3times	

Accessories

M3 NUT, Plain Washers 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.