

Conductive Plastic Linear Sensor

MIDORI LP-FBS-3 Series



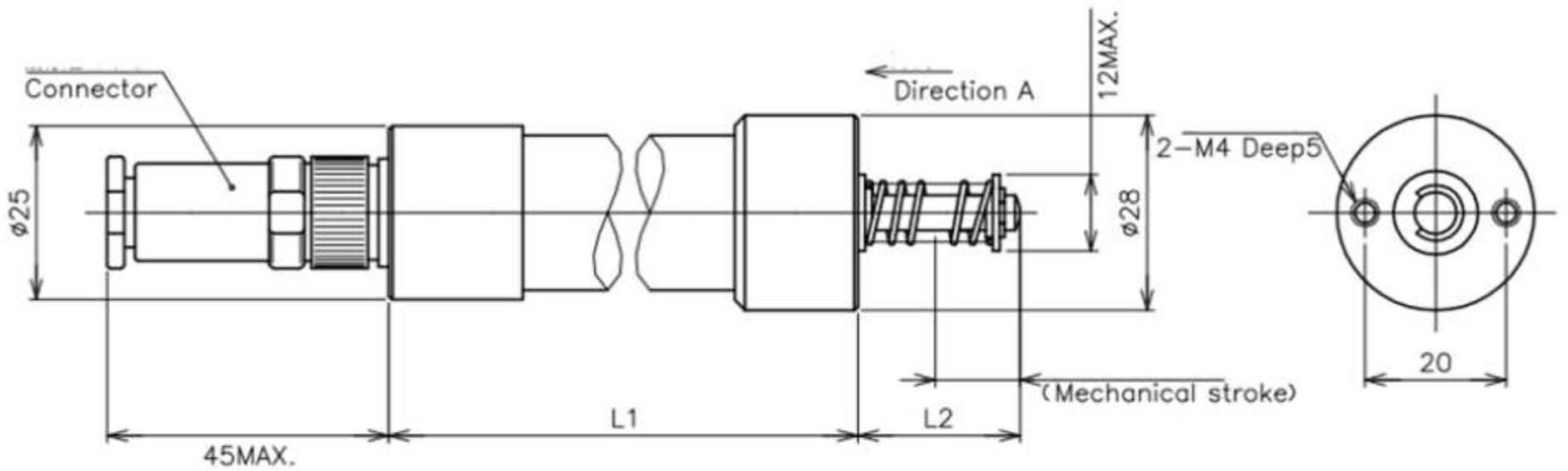
General

- Conductive Plastic Linear Sensor
- Effective Electrical Travel: 10mm (LP-10FBS-3)
: 20mm (LP-20FBS-3)
- Independent Linearity: $\pm 1\%$
- w/ Back Spring
- Dust and Drip Proof (IP54)

Material

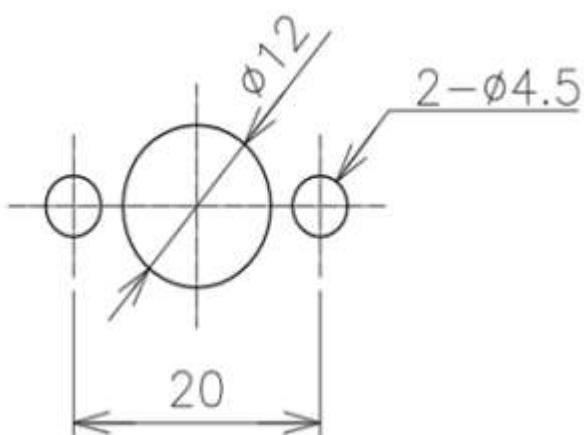
- Housing: Aluminum
- Shaft: Stainless Steel
- Bearing: Copper Alloy

Dimension (mm)

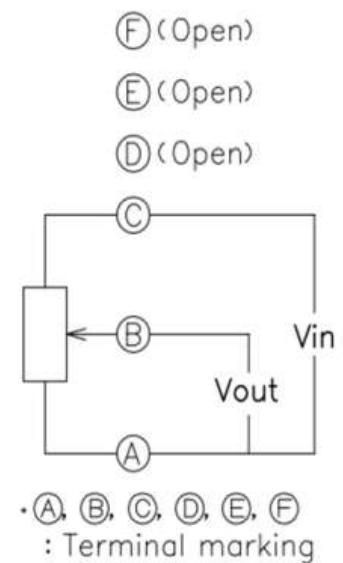


[Model No.]	LP-10FBS-3	LP-20FBS-3
Housing Length (L1)	66.5 mm	76.5 mm
Shaft Length (L2)	23 mm \pm 1mm	51mm \pm 1 mm

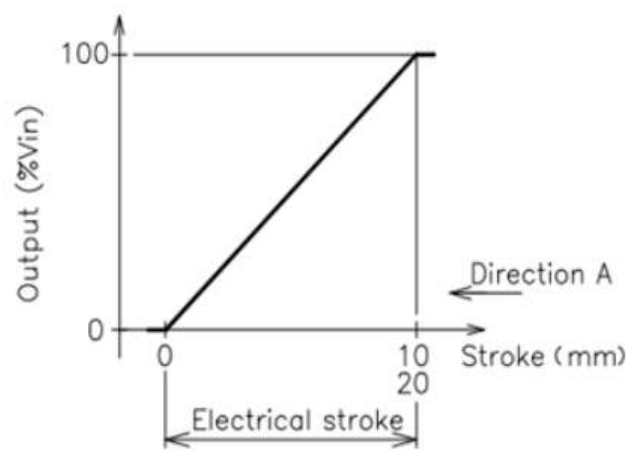
Mounting(mm)



Schematic



Output Characteristics



Specifications

	LP-10FBS-3	LP-20FBS-3
Electrical Specifications		
Effective Electrical Travel	10mm±0.5mm	20mm±0.5mm
Total Resistance	1K Ω	1K, 2K Ω
Total Resistance Tolerance	±20%	
Independent Linearity	±1%	
Rated Dissipation	0.3W/70°C	0.6W/70°C
Output Smoothness	0.1% MAX.	
Insulation Resistance	100MΩMIN./DC500V	
Dielectric Strength	AC500V/ 1Minute	
TC of Resistance	±400ppm/K	
Mechanical Specifications		
Total Mechanical Travel	12mm±1mm	22mm±1mm
Friction	17N MAX. (Spring Strength)	18N MAX. (Spring Strength)
Weight	Approx. 80g	Approx. 100g
Environmental Specifications		
Life Cycles	5 Million cycles MIN.	
Category Temp. Range	-25~+80°C	
Storage Temp. Range	-25~+80°C	
Vibration	100m/S2 500Hz 3axis 2hours each	
Shock	500m/S2 11ms 6directions 3times	
IP Level	IP 54	

Accessories

Connector Plug : TAJIMI R04-P6F(6.3), Matching Cable Diameter Φ6.3mm

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.