

Conductive Plastic Linear Sensor

LP-20F Series



- Conductive Plastic Linear Sensor
- Effective Electrical Travel : 20mm±0.5mm
- Independent Linearity : ±1%

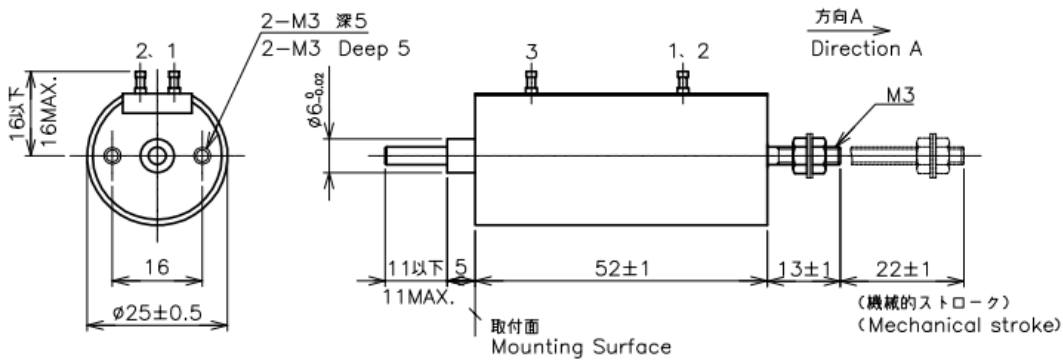
【Material】

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

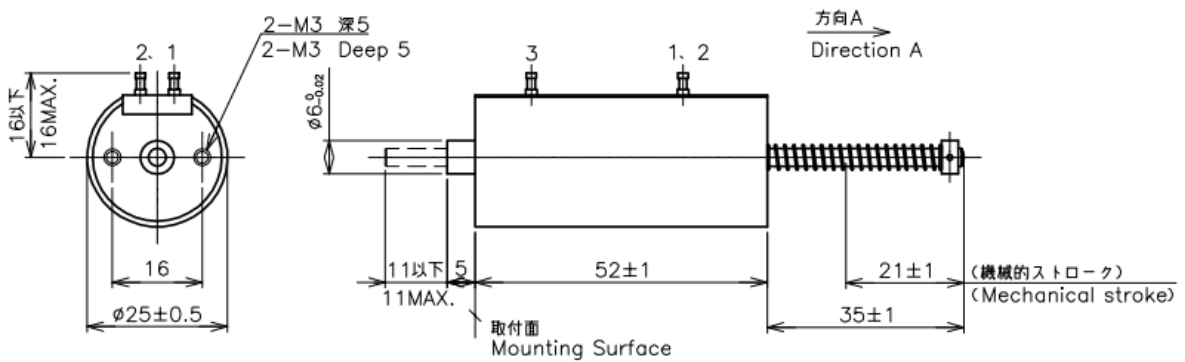
LP-20F : w/o Return Spring
 LP-20FB: w/ Return Spring

Dimension [mm]

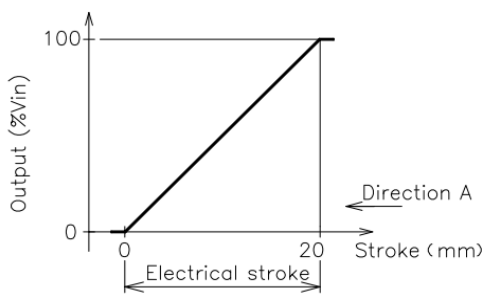
LP-20F



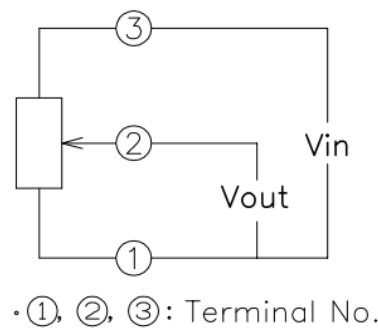
LP-20FB With Return Spring



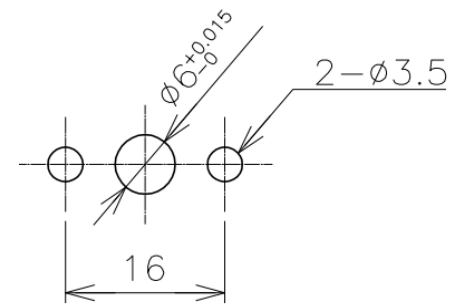
Output Characteristics



Schematic



Mounting



【Model No.】

LP-20F

LP-20FB

【Electrical Specifications】

Effective Electrical Travel	20±0.5	mm
Total Resistance	1, 2	kΩ
Total Resistance Tolerance	±20	%
Independent Linearity	±1	%
Rated Dissipation	0.6/70°C	W
Output Smoothness	MAX. 0.1	%
Insulation Resistance	MIN. 100 / DC 500V	MΩ
Dielectric Strength	AC500 1 Minute	V
Temperature Coefficient of Resistor	±400	ppm/K

【Mechanical Specifications】

Total Mechanical Travel	22±1	mm
Friction	MAX. 0.3	MAX. 3 (Spring Strength) N
Mass	Approx. 60	g

【Environmental Specifications】

Life Cycles	MIN. 5 Million	Cycle
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

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.
- 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.