

Conductive Plastic Linear Sensor

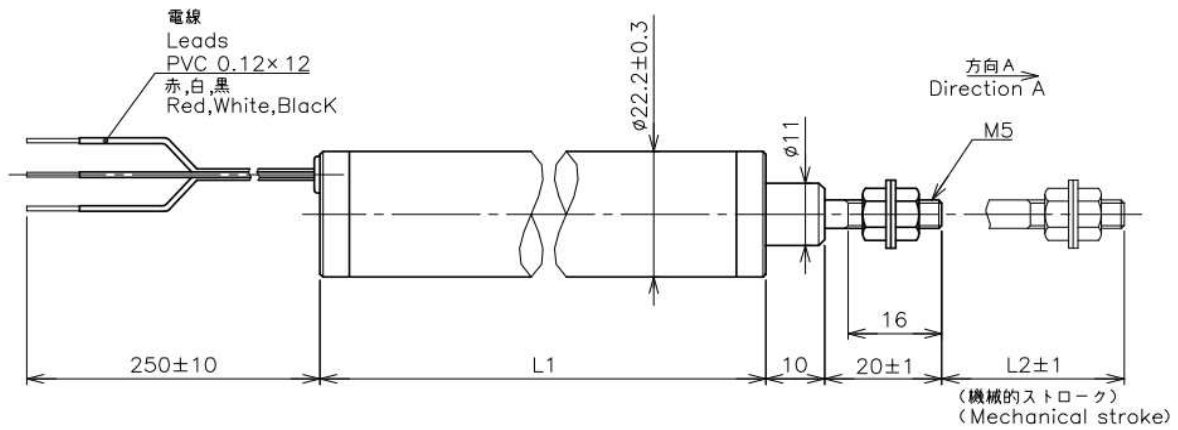
LP-F-C Series



- Conductive Plastic Linear Sensor
- Effective Electrical Travel :
 - 100mm±0.5mm (LP-100F-C)
 - 150mm±0.5mm (LP-150F-C)
 - 200mm±1mm (LP-200F-C)
 - 250mm±1mm (LP-250F-C)
 - 300mm±1mm (LP-300F-C)
- Independent Linearity : ±0.3% (Special Linearity ±0.1%)

- 【Material】
- Housing : Aluminum
 - Shaft : Stainless Steel
 - Bearing : Copper Alloy

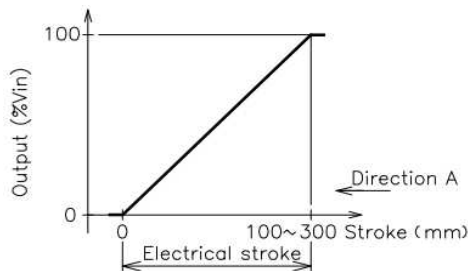
Dimension [mm]



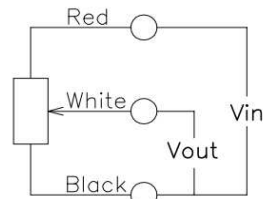
【Model No.】	LP-100F-C	LP-150F-C	LP-200F-C	LP-250F-C	LP-300F-C
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【Housing Length・Mounting】						
Housing Length(L1)	138±1	188±1	238±1	288±1	338±1	mm
Mech. Stroke(L2)	103±1	153±1	203±1	253±1	303±1	mm
MTG Holes Spacing(L3)	124	174	224	274	324	mm

Output Characteristics

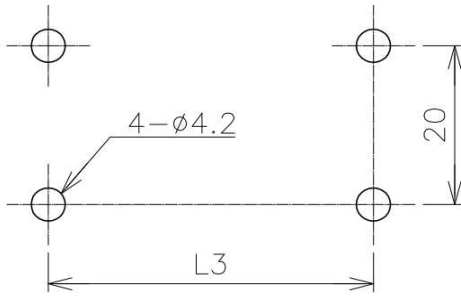


Schematic

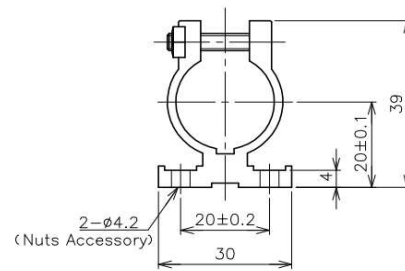


• Red,White,Black indicate lead colors.

■ Mounting Holes



■ Mounting Foot



【Model No.】	LP-100F-C	LP-150F-C	LP-200F-C	LP-250F-C	LP-300F-C
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【Electrical Specifications】

Effective Electrical Travel	100±0.5	150±0.5	200±1	250±1	300±1	mm
Total Resistance	1, 2, 5, 10			2, 5, 10		kΩ
Total Resistance Tolerance	±20					%
Independent Linearity	±0.3 (Special Linearity ±0.1%)					%
Rated Dissipation	2/70°C	3/70°C	4/70°C			W
Output Smoothness	MAX. 0.1					%
Insulation Resistance	MIN. 100 / DC 500V					MΩ
Dielectric Strength	AC500 / 1 Minute					V
Temperature Coefficient of Resistance	±400					ppm/K

【Mechanical Specifications】

Friction	MAX. 1					N
Mass	110 Approx.	140 Approx.	170 Approx.	200 Approx.	230 Approx.	g

【Environmental Specifications】

Life Cycles	MIN. 5 Million					Cycle
Category Temperature Range	-25~+80					°C
Storage Temperature Range	-25~+80					°C
Vibration	100m/s ² 500Hz 3axis 2hours each					
Shock	500m/s ² 11ms 6directions 3times					

■ Accessories

Mounting Foot: M4 Nut 4 pieces each
 Shaft Joint: M5 Nut, Plain washer 2 pieces each

■ Handling Instruction

- To avoid burnout of resistive element, do not supply more than 1mA current to terminal white.
- Miswiring may 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.