

SPACE SAVING, EASY TO INSTALL AND VIBRATION PROOF

CONDUCTIVE PLASTIC LINEAR SENSOR

LP-F-63 series

RoHS compliant



FEATURES

- Conductive Plastic Linear Sensor
- Diameter 22mm slim profile
- Rod-end on both end no need to locate the center
- Ball joint installed vibration reduced
- Independent Linearity : $\pm 0.3\%$ FS

OPTION

- Independent Linearity : $\pm 0.1\%$ FS
- With lead connector : Binder 09-0309-00-04
(Model : LP-F-62)

PART NUMBER DESIGNATION

LP - 100 F - 63

Effective Electrical Travel

100 : 100 mm
150 : 150 mm
200 : 200 mm
250 : 250 mm
300 : 300 mm

STANDARD SPECIFICATIONS

Electrical characteristics

Model No.	LP-100F-63	LP-150F-63	LP-200F-63	LP-250F-63	LP-300F-63
Effective Electrical Travel	100 $\pm$ 1 mm	150 $\pm$ 1 mm	200 $\pm$ 1 mm	250 $\pm$ 1 mm	300 $\pm$ 1 mm
Total Resistance	1, 2, 5, 10 k Ω				2, 5, 10 k Ω
Total Resistance Tolerance	$\pm 20\%$				
Independent Linearity	$\pm 0.3\%$ FS (Special Linearity $\pm 0.1\%$ FS)				
Power Rating	2 W / 70°C				4 W / 70°C
Output Smoothness	0.1% max.				
Insulation Resistance	100 M Ω min. / 500 VDC				
Dielectric Strength	500 VAC / 1 Minute				
TC of Resistance	± 400 ppm/K				

Mechanical characteristics

Net weight	Approx.95 g	Approx.125 g	Approx.165 g	Approx.205 g	Approx.245 g
Friction	2 N max.				

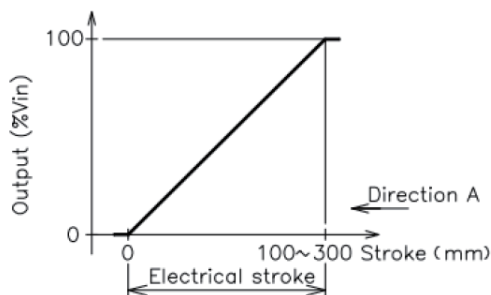
Environmental characteristics

Life Cycles	5 Million Cycle
Operating Temp.Range	-25 ~ 80°C
Storage Temp. Range	-25 ~ 80°C
Vibration	100 m/s ² , 20 ~ 500Hz 3 axis 2 hours each
Shock	500 m/s ²
IP Rating	IP40

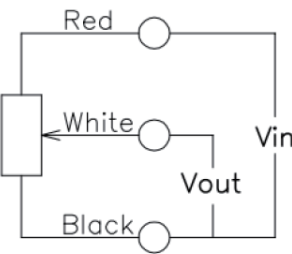
LP-F-63

POTENTIOMETERS

OUTPUT CHARACTERISTICS



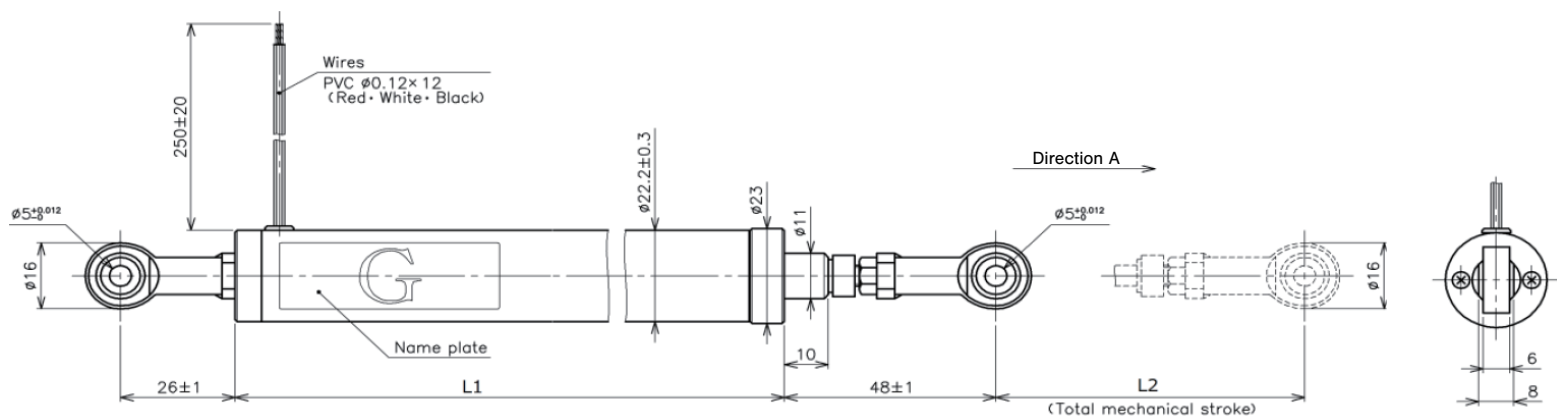
SCHEMATIC



Red, White, Black indicate lead colors.

OUTLINE DIMENSIONS

(Unit:mm)



Model No.	LP-100F-63	LP-150F-63	LP-200F-63	LP-250F-63	LP-300F-63
Housing Length L1	145 $\pm$ 1 mm	195 $\pm$ 1 mm	245 $\pm$ 1 mm	295 $\pm$ 1 mm	345 $\pm$ 1 mm
Mechanical stroke L2	103 $\pm$ 2 mm	153 $\pm$ 2 mm	203 $\pm$ 2 mm	253 $\pm$ 2 mm	303 $\pm$ 2 mm

HANDLING INSTRUCTION

- To avoid burnout of resistive element, do not supply 1mA min. current to white wire.