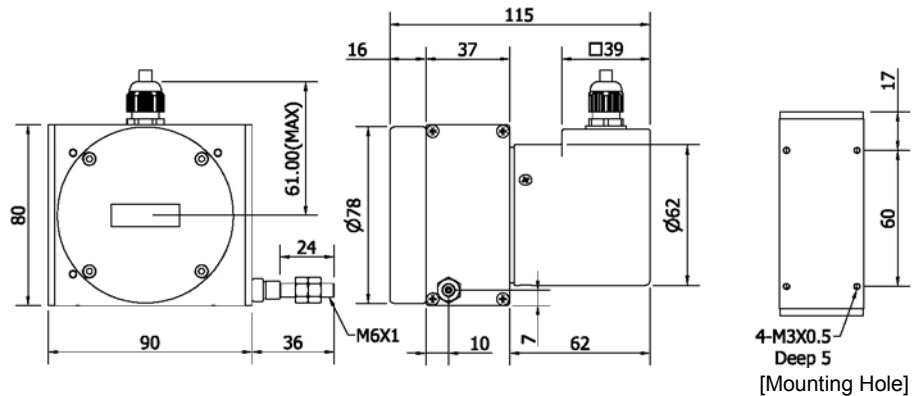


HPS-M1-R

LINEAR WIRE POTENTIOMETER

- PRECISION ELECTRIC RESISTANCE SIGNAL OUTPUT
- SUITABLE FOR SHORT TO MEDIUM MEASUREMENT RANGE



ELECTRICAL SPEC.

Full Stroke (mm)	500, 750, 1000, 1500, 2000, 3000, 4000
Sensor	Wire-wound and hybrid potentiometer
Output Signal Mode	Resistance (Potentiometer)
Resolution	Essentially infinite
Linearity	[standard class] ±0.25% FS; [precision class] ±0.1% FS (±1 count)
Repeatability	±0.02% FS
Output Resistance	[standard class] 5K ohm ± 10% FS; [precision class] 5K ohm ± 5% FS
Power Rating (watts)	[stroke 500 mm] 1 W at 40°C; [stroke ≥ 1000 mm] 2 W at 40°C
Recommended Input Voltage	30V (AC/DC) max., best voltage at 5 ~ 10 VAC/VDC

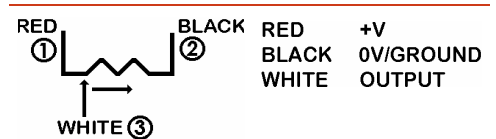
MECHANICAL SPEC.

Wire Specification	Diameter: 0.7 mm SUS304 with nylon coating
Max. Travel Speed	1,000 mm / sec.
Vibration	10 Hz to 2000 Hz, 10 g
Cable	Ø5.4, 100 cm long, radial cable output
Weight	< 1,000 g
Starting Torque on Spring	[(Stroke ≤ 1000 mm) 600 g; [Stroke ≥ 1500 mm] 1000 g

ENVIRONMENTAL SPEC.

Operating Temp. / Humidity	-20°C ~ 70°C RH35% ~ 90% (No Condensation)
Storage Temp.	-20°C ~ 80°C
Protection	IP64: Dust & Dripping Proof (only for potentiometer housing)

Electrical Connection



ORDERING INFORMATION

HPS - M1	<i>Measuring Range</i>	<i>Signal Mode</i>	<i>Potentiometer Life and Linearity</i>
	05 : 500 mm 15 : 1500 mm 075 : 750 mm 20 : 2000 mm 10 : 1000 mm 30 : 3000 mm 40 : 4000 mm	R: Resistance 5K ohm	Blank : 1 X 10 ⁸ cycles, linearity 0.25% FS *F : 5 X 10 ⁶ cycles, linearity 0.1% FS *F25 : 5 X 10 ⁶ cycles, linearity 0.25% FS