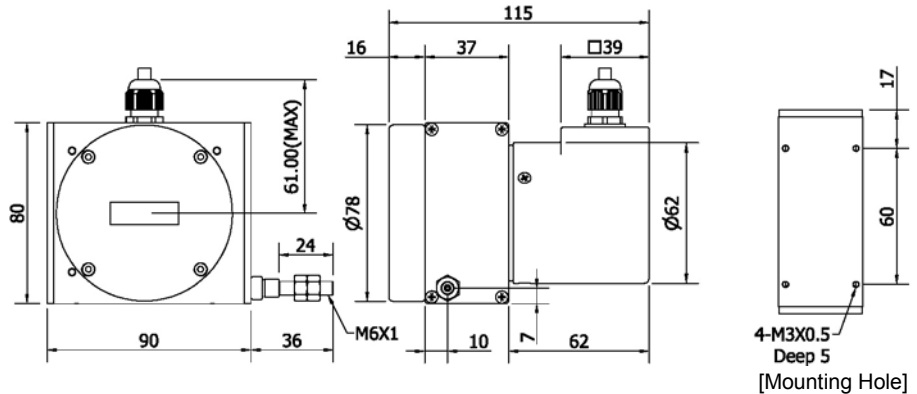


# HPS-M1-V

## LINEAR WIRE POTENTIOMETER

- PRECISION ELECTRIC 0-5V and 0-10V 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	0-5Vdc or 0-10Vdc
Resolution	Essentially infinite
Linearity	[standard class] $\pm 0.3\%$ FS; [precision class] $\pm 0.15\%$ FS ( $\pm 1$ count)
Repeatability	$\pm 0.05\%$ FS
Input Power	10-30Vdc for 0-5V output; 15-30Vdc for 0-10V output
Input Current	10 mA max.

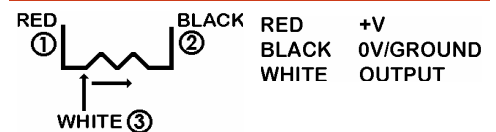
### MECHANICAL SPEC.

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	$\varnothing 5.4$ , 100 cm long, radial cable output
Weight	< 1,000 g
Starting Torque on Spring	[Stroke $\leq$ 1000 mm] 600 g; [Stroke $\geq$ 1500 mm] 1000 g

### ENVIRONMENTAL SPEC.

Operating Temp. / Humidity	0°C ~ 70°C
Storage Temp.	-20°C ~ 80°C
Protection	IP64: Dust & Dripping Proof (only for potentiometer housing)

### Electrical Connection



### ORDERING INFORMATION

<b>HPS - M1</b>	Measuring Range		Signal Mode	Life
	05 : 500 mm	15 : 1500 mm	*5V: 0-5Vdc	Blank: $1 \times 10^6$ cycles, linearity 0.3% FS
	075 : 750 mm	20 : 2000 mm	*10V: 0-10Vdc	*F: $5 \times 10^6$ cycles, linearity 0.15% FS
	10 : 1000 mm	30 : 3000 mm		*F25: $5 \times 10^6$ cycles, linearity 0.3% FS
	40 : 4000 mm			