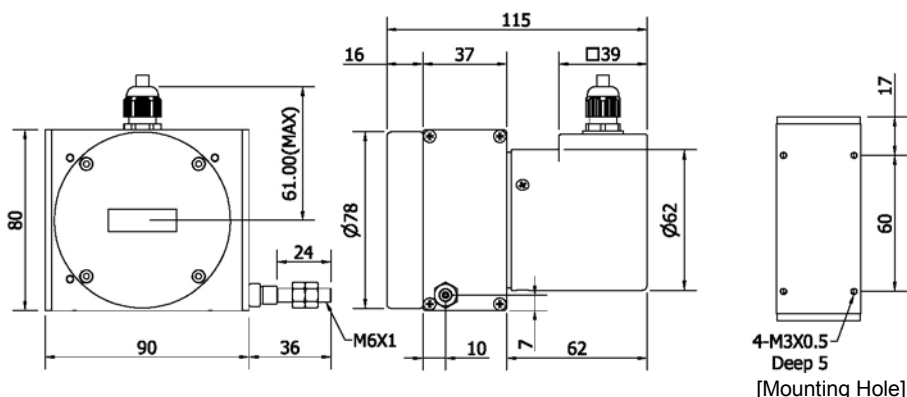


# HPS-M1-V

## LINEAR WIRE POTENTIOMETER

- PRECISION ELECTRIC 0-5V and 0-10V SIGNAL OUTPUT
- SUITABLE FOR SHORT TO MEDIUM MEASUREMENT RANGE



### ELECTRICAL SPEC.

Full Stroke (mm) 量測行程	500, 750, 1000, 1250, 1500, 2000, 3000, 4000
Sensor	Wire-wound and hybrid potentiometer
Output Signal Mode 輸出信號模式	0-5Vdc or 0-10Vdc
Resolution 解析	Essentially infinite
Linearity 線性度	(standard class) $\pm 0.3\%$ FS; (precision class) $\pm 0.15\%$ FS
Repeatability 重覆性	$\pm 0.05\%$ FS
Input Power 供應電壓	10-30Vdc for 0-5V output; 15-30Vdc for 0-10V output
Input Current 供應電流	10 mA max.

### MECHANICAL SPEC.

Wire Specification 線徑規格	(Stroke $\leq 1250$ mm ) Diameter: 0.6 mm SUS304 with nylon coating (Stroke $\geq 1500$ mm ) Diameter: 0.7 mm SUS304 with nylon coating
Max. Travel Speed 最大往復速度	1,000 mm / sec.
Vibration 震動	10 Hz to 2000 Hz, 10 g
Cable 電線	$\varnothing 5.4$ , 100 cm long, radial cable output
Weight 重量	< 1,000 g
Starting Torque on Spring 拉力	(Stroke $\leq 1250$ mm ) 600 g; (Stroke $\geq 1500$ mm ) 1000 g

### ENVIRONMENTAL SPEC.

Operating Temp. / Humidity 操作溫度/濕度	0°C ~ 70°C
Storage Temp. 儲存溫度	-20°C ~ 80°C
Protection 保護等級	IP64: Dust & Dripping Proof (only for potentiometer housing)

### Electrical Connection



### ORDERING INFORMATION

HPS - M1 -	Measuring Range 量測行程	Signal Mode 信號模式	Life 壽命及線性度
	05 : 500 mm      15 : 1500 mm 075 : 750 mm    20 : 2000 mm 10 : 1000 mm    30 : 3000 mm 125 : 1250 mm   40 : 4000 mm	*5V: 0-5Vdc *10V: 0-10Vdc	Blank: 1 X 10 <sup>6</sup> cycles, linearity 0.3% FS *F: 5 X 10 <sup>6</sup> cycles, linearity 0.15% FS *F25: 5 X 10 <sup>6</sup> cycles, linearity 0.3% FS