

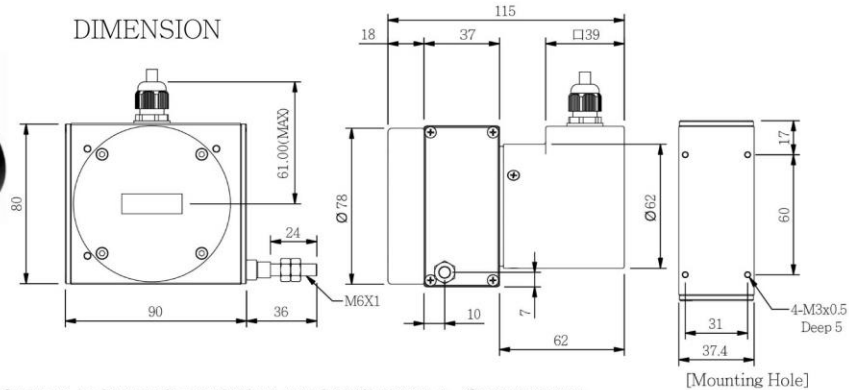


得豐實業有限公司

Dfwisdom Industrial CO., LTD

HPS-M1-R 拉線式電位計 (Linear Wire Potentiometer)

量測行程 500 ~ 4000 mm
電阻 0~5K 輸出



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

ELECTRICAL SPEC 電器規格

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	Resistance (Potentiometer)
Resolution 解析	Essentially infinite
Linearity 線性度	[standard class] ±0.25% FS [precision class] ±0.1% FS (±1 count)
Repeatability 重覆性	±0.02 % FS
Output Resistance 輸出電阻值	[standard class] 5K ohm ±10%FS [precision class] 5K ohm ±10%FS
Power Rating (watts)	[stroke 500 mm] 1 W at 40° C [stroke ≥ 1000 mm] 2 W at 40° C
Recommended Input Voltage 輸入電壓	30V(AC/DC) max., best voltage at 5 ~ 10 VAC/VDC

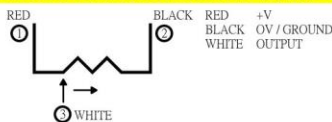
MECHANICAL SPEC 機械規格

Wire Specification 線徑規格	Diameter: 0.7 mm SUS304 with nyion coating
Max. Travel Speed 最大往復速度	1,000 mm/sec.
Vibration 震動	10 Hz to 2000 Hz, 10g
Cable 電線	ø 5.4, 100 cm long. radial cable output
Weight 重量	< 1,000 g
Starting Torque on Spring 拉力	[Stroke ≤ 1000 mm] 600 g ; [Stroke ≥ 1500 mm] 1000 g

ENVIRONMENTAL SPEC 環境規格

Operating Temp./ Humidity	-20°C ~ 70°C
操作溫度/濕度	RH 35 % ~ 90 % (No Condensation)
Storage Temp. 儲存溫度	-20°C ~ 80°C
Protection 保護等級	IP 64:Dust & Dripping Proof (only for potentiometer housing)

Electrical Connection 接線圖



Specifications Model 規格 型號

HPS-M1-	-	-
Measuring Range 量測行程	Signal Mode 信號模式	Potentiometer Life and Linearity 壽命及線性度
05 : 500mm 15 : 1500mm 075 : 750mm 20 : 2000mm 10 : 1000mm 30 : 3000mm 125 : 1250mm 40 : 4000mm	R : Resistance 5K ohm	Blank 1 x 10 ⁶ 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

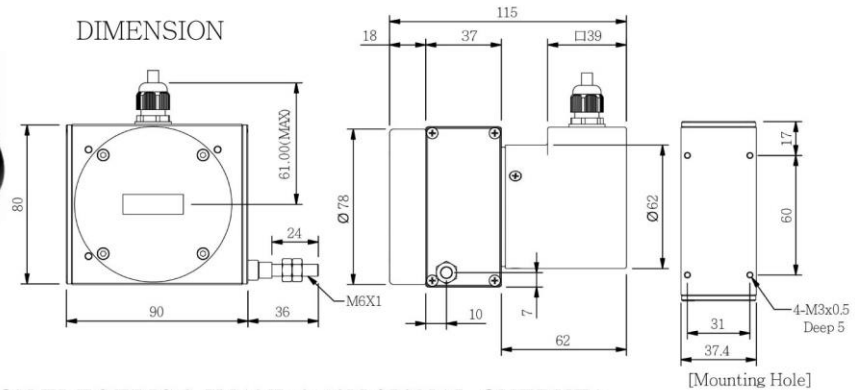


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Dfwisdom Industrial CO., LTD

HPS-M1-V 拉線式電位計 (Linear Wire Potentiometer)

量測行程 500 ~ 4000 mm
0-5V, 0-10V 輸出



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

ELECTRICAL SPEC 電器規格

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] ±0.3% FS [precision class] ±0.15% FS (±1 count)
Repeatability 重覆性	±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.

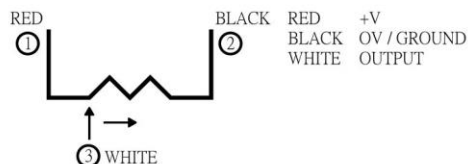
MECHANICAL SPEC 機械規格

Wire Specification 線徑規格	Diameter: 0.7 mm SUS304 with nyion coating
Max. Travel Speed 最大往復速度	1,000 mm/sec.
Vibration 震動	10 Hz to 2000 Hz, 10g
Cable 電線	ø 5.4 , 100 cm long. radial cable output
Weight 重量	< 1,000 g
Starting Torque on Spring 拉力	[Stroke ≤ 1000 mm] 600g ; [Stroke ≥ 1500 mm] 1000g

ENVIRONMENTAL SPEC 環境規格

Operating Temp./ Humidity 操作溫度/濕度	-20°C ~ 70°C RH 35 % ~ 90 % (No Condensation)
Storage Temp. 儲存溫度	-20°C ~ 80°C
Protection 保護等級	IP 64: Dust & Dripping Proof (only for potentiometer housing)

Electrical Connection 接線圖



Specifications Model 規格 型號

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

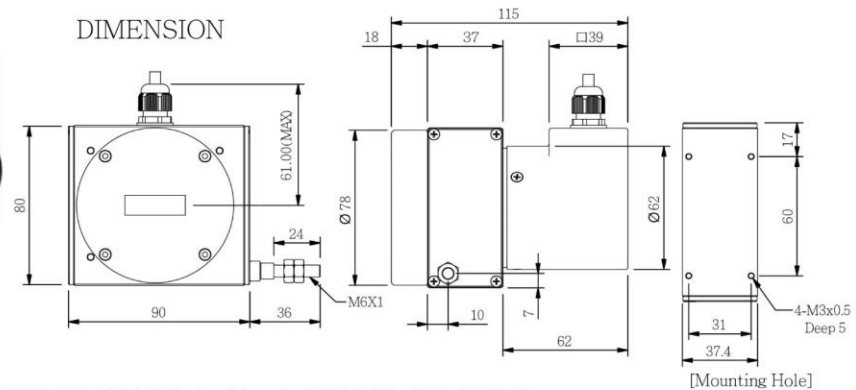


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Df Wisdom Industrial CO., LTD

HPS-M1-MA 拉線式電位計 (Linear Wire Potentiometer)

量測行程 500 ~ 4000 mm
4-20mA 輸出



PRECISION ELECTRIC 4 - 20 mA SIGNAL OUTPUT
SUITABLE FOR SHORT TO MEDIUM MEASUREMENT RANGE

ELECTRICAL SPEC 電器規格

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	4 - 20 mA (2 wires)
Resolution 解析	Essentially infinite
Linearity 線性度	[standard class]±0.3% FS [precision class]±0.15% FS (±1 count)
Repeatability 重覆性	±0.05 % FS
Input Power 供應電壓	15 - 24Vdc ±20%
Input Current 供應電流	20 mA max.
Loop Resistance (load)	(loop supply voltage - 12) / 0.02 max.
Zero and Span Adjustment	± 5 %

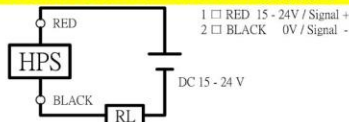
MECHANICAL SPEC 機械規格

Wire Specification 線徑規格	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, 10g
Cable 電線	ø 5.4 , 100 cm long
Weight 重量	< 1,000 g
Starting Torque on Spring 拉力	[Stroke ≤ 1000 mm] 600 g : [Stroke ≥ 1500 mm] 1000 g

ENVIRONMENTAL SPEC 環境規格

Operating Temp./ Humidity	0°C ~ 70°C
操作溫度/濕度	RH 35 % ~ 90 % (No Condensation)
Storage Temp. 儲存溫度	-20°C ~ 80°C
Protection 保護等級	IP 64:Dust & Dripping Proof (only for potentiometer housing)

Electrical Connection 接線圖



Specifications Model 規格 型號

HPS-M1-	[]	-	[]	-	[]
	Measuring Range		Signal Mode		Potentiometer Life and Linearity
	量測行程		信號模式		壽命及線性度
	05 : 500mm 15 : 1500mm		420 : 4 - 20 mA		Blank 1 x 10 ⁶ cycles, linearity 0.3 % FS
	075 : 750mm 20 : 2000mm				*F: 5 x 10 ⁶ cycles, linearity 0.15 % FS
	10 : 1000mm 30 : 3000mm				*F25: 5 x 10 ⁶ cycles, linearity 0.3 % FS
	125 : 1250mm 40 : 4000mm				