

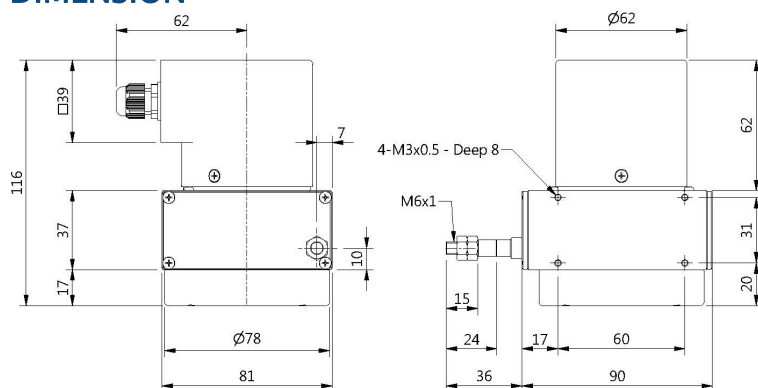
HPS-M1-R

DISPLACEMENT SENSOR LINEAR WIRE POTENTIOMETER



- Measuring Range 500 ~ 5000 mm
- Resistance 5K ohm Output

DIMENSION



ORDERING INFORMATION

HPS-M1 -	- R -
Measuring Range 量測行程	Pot. Life 電位計壽命及線性度
05: 500 mm	Blank : 1x10 ⁶ cycles, linearity 0.25%FS
075: 750 mm	*F25 : 5x10 ⁶ cycles, linearity 0.25%FS
10: 1000 mm	*F : 5x10 ⁶ cycles, linearity 0.1%FS
15: 1500 mm	
20: 2000 mm	
30: 3000 mm	
40: 4000 mm	
50: 5000 mm	

ELECTRICAL SPEC.

Full Stroke (mm) 量測行程	500, 750, 1000, 1500, 2000, 3000, 4000, 5000
Sensor	Wire-wound and hybrid potentiometer
Output Signal Mode 輸出信號模式	Resistance (Potentiometer)
Linearity 線性度	[standard class] $\pm 0.25\%$ FS; [precision class] $\pm 0.1\%$ FS
Repeatability 重複性	$\pm 0.05\%$ FS
Output Resistance 輸出電阻值	[standard class] 5K ohm $\pm 10\%$ FS; [precision class] 5K ohm $\pm 5\%$ 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

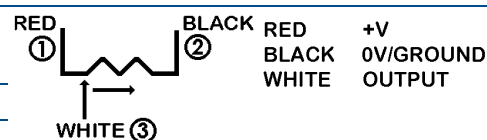
MECHANICAL SPEC.

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	10-55 Hz / 1.5 mm Vpp / 10 G (max.)
Cable 電線	Ø5.4, 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.

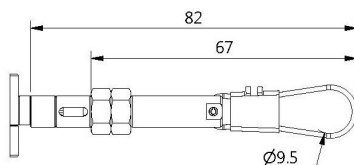
Operating Temp. / Humidity 操作溫度/濕度	-20°C ~ 70°C RH35% ~ 90% (No Condensation)
Storage Temp. 儲存溫度	-20°C ~ 80°C
Protection 保護等級	IP64: Dust & Dripping Proof (only for potentiometer housing)

Electrical Connection



[Option Component]

Ordering Part No. HA-90074



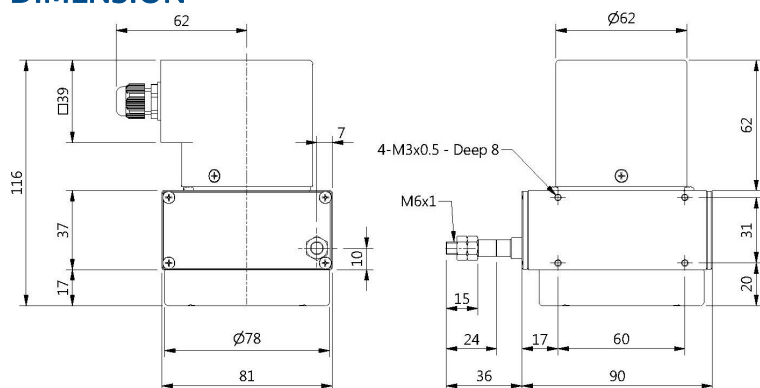
HPS-M1-V

DISPLACEMENT SENSOR LINEAR WIRE POTENTIOMETER



- Measuring Range 500 ~ 5000 mm
- Electric 0-5Vdc and 0-10Vdc Output

DIMENSION



ORDERING INFORMATION

HPS-M1-			
Measuring Range 量測行程	Signal Mode 信號模式	Pot. Life 電位計壽命及線性度	
05: 500 mm	*5V: 0-5V	Blank: 1x10 ⁶ cycles, linearity 0.3%FS	
075: 750 mm	*10V: 0-10V	*F25: 5x10 ⁶ cycles, linearity 0.3%FS	
10: 1000 mm		*F: 5x10 ⁶ cycles, linearity 0.15%FS	
15: 1500 mm			
20: 2000 mm			
30: 3000 mm			
40: 4000 mm			
50: 5000 mm			

ELECTRICAL SPEC.

Full Stroke (mm) 量測行程	500, 750, 1000, 1500, 2000, 3000, 4000, 5000
Sensor	Wire-wound and hybrid potentiometer
Output Signal Mode 輸出信號模式	0-5Vdc or 0-10Vdc
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.

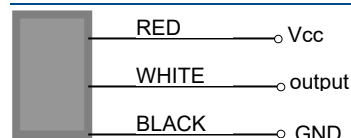
MECHANICAL SPEC.

Wire Specification 線徑規格	Diameter: 0.7 mm SUS304 with nylon coating
Max. Travel Speed 最大往復速度	1,000 mm / sec.
Vibration 震動	10-55 Hz / 1.5 mm Vpp / 10 G (max.)
Cable 電線	Ø5.4, 100 cm long, radial cable output
Weight 重量	< 1,000 g
Starting Torque on Spring 拉力	[Stroke $\leq$ 1000 mm] 600 g; [Stroke $\geq$ 1500 mm] 1000 g

ENVIRONMENTAL SPEC.

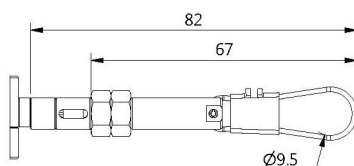
Operating Temp. / Humidity 操作溫度/濕度	0°C ~ 70°C RH35% ~ 90% (No Condensation)
Storage Temp. 儲存溫度	-20°C ~ 80°C
Protection 保護等級	IP64: Dust & Dripping Proof (only for potentiometer housing)

Electrical Connection



[Option Component]

Ordering Part No. HA-90074



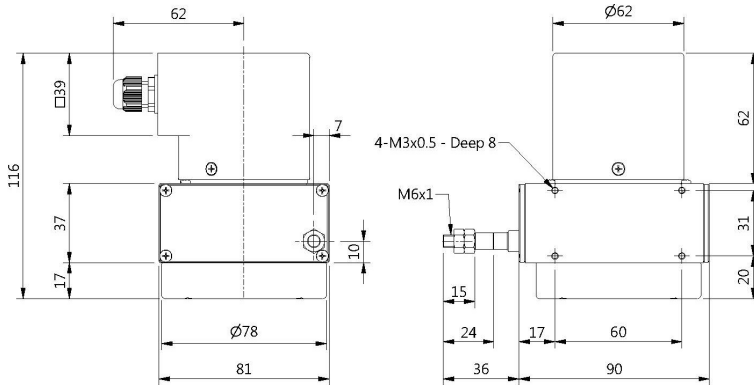
HPS-M1-MA

DISPLACEMENT SENSOR LINEAR WIRE POTENTIOMETER



- Measuring Range 500 ~ 5000 mm
- Analog Current 4-20mA Output

DIMENSION



ORDERING INFORMATION

HPS-M1 -		- 420 -	
Measuring Range 量測行程		Pot. Life 電位計壽命及線性度	
05: 500 mm		Blank: 1x10 ⁶ cycles,	
075: 750 mm		linearity 0.3%FS	
10: 1000 mm		*F25: 5x10 ⁶ cycles,	
15: 1500 mm		linearity 0.3%FS	
20: 2000 mm		*F: 5x10 ⁶ cycles,	
30: 3000 mm		linearity 0.15%FS	
40: 4000 mm			
50: 5000 mm			

ELECTRICAL SPEC.

Full Stroke (mm) 量測行程	500, 750, 1000, 1500, 2000, 3000, 4000, 5000
Sensor	Wire-wound and hybrid potentiometer
Output Signal Mode 輸出信號模式	4-20 mA (2 wires)
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	15-24Vdc $\pm 20\%$
Input Current 供應電流	20 mA max.
Loop Resistance (load)	(loop supply voltage -12) / 0.02 max.
Zero and Span Adjustment	$\pm 5\%$

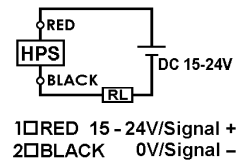
MECHANICAL SPEC.

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	10-55 Hz / 1.5 mm Vpp / 10 G (max.)
Cable 電線	Ø5.4, 100 cm long
Weight 重量	< 1,000 g
Starting Torque on Spring 拉力	[Stroke $\leq$ 1000 mm] 600 g; [Stroke $\geq$ 1500 mm] 1000 g

ENVIRONMENTAL SPEC.

Operating Temp. / Humidity 操作溫度/濕度	0°C ~ 70°C RH35% ~ 90% (No Condensation)
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



[Option Component]

Ordering Part No. HA-90074

