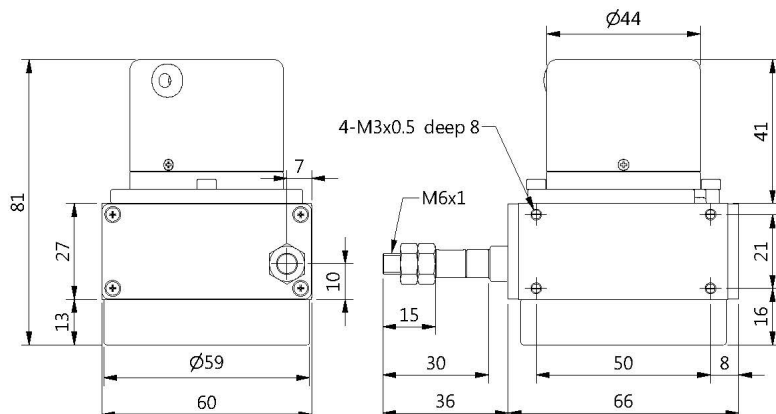


DISPLACEMENT SENSOR
LINEAR WIRE POTENTIOMETER



- Measuring Range 500/1000 mm
- Resistance 5K ohm Output

DIMENSION



ORDERING INFORMATION

HPS-S - - R-

Measuring Range
量測行程

05: 500 mm
10: 1000 mm

Pot. Life
電位計壽命及線性度

Blank : 1×10^6 cycles,
linearity 0.25%FS

*F25 : 5×10^6 cycles,
linearity 0.25%FS

*F : 5×10^6 cycles,
linearity 0.1%FS

ELECTRICAL SPEC.

Full Stroke (mm) 量測行程	500, 1000
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 (± 1 count)
Repeatability 重覆性	$\pm 0.02\%$ 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

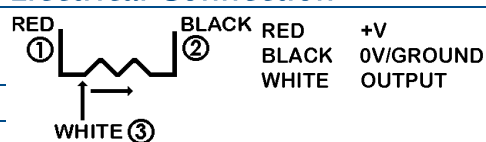
MECHANICAL SPEC.

Wire Specification 線徑規格	Material: SUS304 with nylon coating; Diameter: 0.6 mm; Breaking load: 16 Kg
Max. Travel Speed 最大往復速度	500 mm / sec.
Vibration 震動	10 Hz to 2000 Hz, 10 g
Cable 電線	Ø4.2, 50 cm long
Weight 重量	< 600 g
Starting Torque on Spring 拉力	< 600 g

ENVIRONMENTAL SPEC.

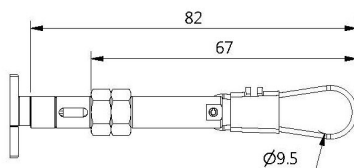
Operating Temp. / Humidity 操作溫度/濕度	-20°C ~ 70°C RH35% ~ 90% (No Condensation)
Storage Temp. 儲存溫度	-20°C ~ 80°C
Protection 保護等級	IP50: Dust Proof (only for potentiometer housing)

Electrical Connection



[Option Component]

Ordering Part No. **HA-90074**



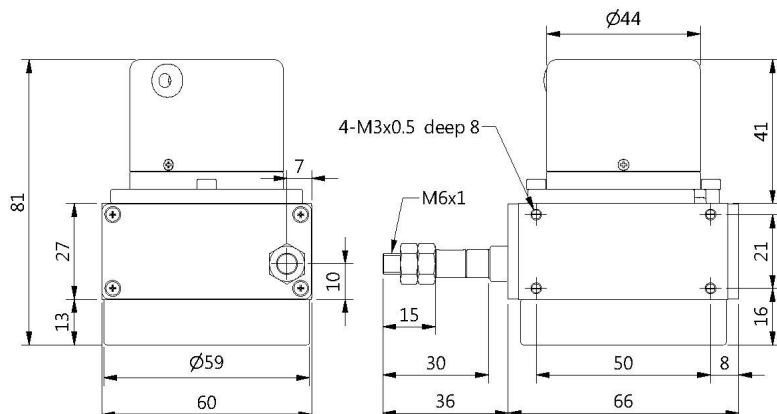
HPS-S-V

DISPLACEMENT SENSOR LINEAR WIRE POTENTIOMETER



- Measuring Range 500/1000 mm
- Electric 0-5Vdc and 0-10Vdc Output

DIMENSION



ORDERING INFORMATION

HPS-S-			
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	
10: 1000 mm	*10V: 0-10V	*F25: 5x10 ⁶ cycles, linearity 0.3%FS	
		*F: 5x10 ⁶ cycles, linearity 0.15%FS	

ELECTRICAL SPEC.

Full Stroke (mm) 量測行程	500, 1000
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	15-30Vdc $\pm 20\%$
Input Current 供應電流	10 mA max.

MECHANICAL SPEC.

Wire Specification 線徑規格	Material: SUS304 with nylon coating; Diameter: 0.6 mm
Max. Travel Speed 最大往復速度	500 mm / sec.
Vibration 震動	10 Hz to 2000 Hz, 10 g
Cable 電線	Ø4.2, 50 cm long
Weight 重量	< 600 g
Starting Torque on Spring 拉力	< 600 g

ENVIRONMENTAL SPEC.

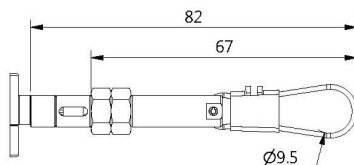
Operating Temp. / Humidity 操作溫度/濕度	-0°C ~ 70°C, RH35% ~ 90%(No Condensation)
Storage Temp. 儲存溫度	-20°C ~ 80°C
Protection 保護等級	IP50: Dust Proof (only for potentiometer housing)

Electrical Connection

RED	Vcc
WHITE	output
BLACK	GND

[Option Component]

Ordering Part No. HA-90074



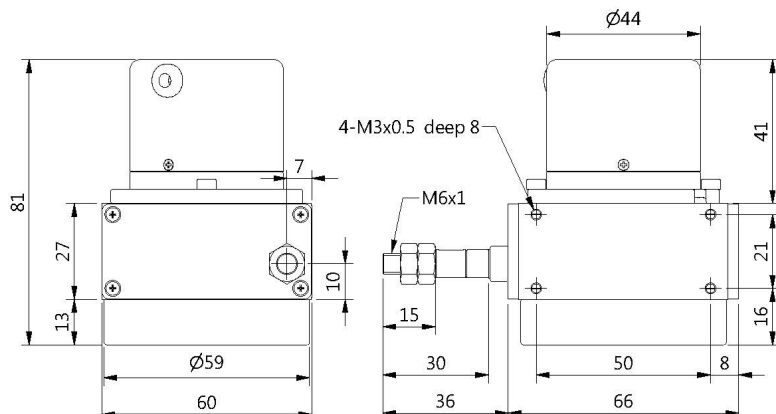
HPS-S-MA

DISPLACEMENT SENSOR LINEAR WIRE POTENTIOMETER



- Measuring Range 500/1000 mm
- Analog Current 4-20mA Output

DIMENSION



ORDERING INFORMATION

HPS-S -		- 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,	
10 : 1000 mm		linearity 0.3%FS	
		*F25 : 5x10 ⁶ cycles,	
		linearity 0.3%FS	
		*F : 5x10 ⁶ cycles,	
		linearity 0.15%FS	

ELECTRICAL SPEC.

Full Stroke (mm) 量測行程	500, 1000
Sensor	Wire-wound and hybrid potentiometer
Output Signal Mode 輸出信號模式	4-20 mA
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	15-30Vdc $\pm 20\%$
Input Current 供應電流	20 mA max.
Loop Resistance (load)	(loop supply voltage -12) / 0.02 max.
Zero and Span Adjustment	$\pm 5\%$

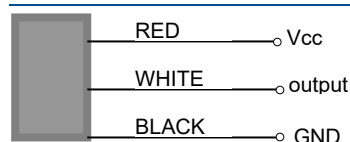
MECHANICAL SPEC.

Wire Specification 線徑規格	Material: SUS304 with nylon coating; Diameter: 0.6 mm
Max. Travel Speed 最大往復速度	500 mm / sec.
Vibration 震動	10 Hz to 2000 Hz, 10 g
Cable 電線	Ø4.2, 50 cm long
Weight 重量	< 600 g
Starting Torque on Spring 拉力	< 600 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	IP50: Dust Proof (only for potentiometer housing)

Electrical Connection



[Option Component]

Ordering Part No. HA-90074

