

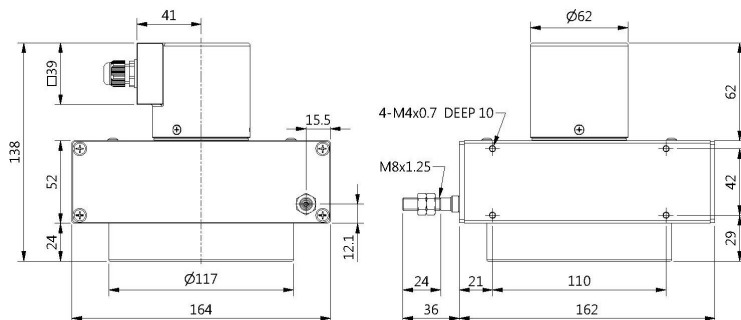
HPS-L1-R

DISPLACEMENT SENSOR LINEAR WIRE POTENTIOMETER



- Measuring Range 3000 ~ 8000 mm
- Precision Electric Resistance Signal Output
- Suitable for Long Measurement Range

DIMENSION



ORDERING INFORMATION

HPS-L1-			
Measuring Range 量測行程	Signal Mode 信號模式	Pot. Life & Linearity 壽命	
30: 3000 mm	R: Resistance 5KΩ	*F: 5X10 ⁶ cycles, Linearity 0.1%FS	
40: 4000 mm		*F25: 5X10 ⁶ cycles, Linearity 0.25%FS	
50: 5000 mm		*OPTION	
60: 6000 mm		(Std. Pot. Life 1X10 ⁶ cycles, Linearity 0.25%)	
80: 8000 mm			

ELECTRICAL SPEC.

Full Stroke (mm) 量測行程	3000, 4000, 5000, 6000, 8000
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 重覆性	$\pm 0.05\%$ 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)	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: 1.0 mm
Starting Torque on Spring 拉力	$\leq 2,200$ g
Max. Travel Speed 最大往復速度	600 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	< 3,500 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



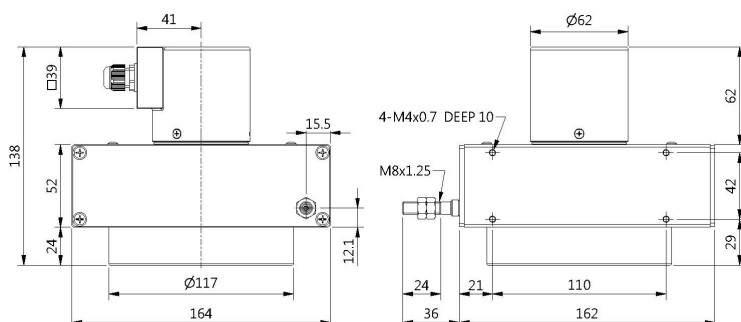
HPS-L1-V

DISPLACEMENT SENSOR LINEAR WIRE POTENTIOMETER



- Measuring Range 3000 ~ 8000 mm
- Precision Electric 0~5V/0~10V Signal Output
- Suitable for Long Measurement Range

DIMENSION



ORDERING INFORMATION

HPS-L1			
Measuring Range 量測行程	Signal Mode 信號模式	Pot. Life & Linearity 壽命	
30: 3000 mm	5V : 0-5V	*F: 5X10 ⁶ cycles, Linearity 0.15%FS	
40: 4000 mm	10V : 0-10V	*F25: 5X10 ⁶ cycles, Linearity 0.3%FS	
50: 5000 mm		*OPTION (Std. Pot. Life 1X10 ⁶ cycles, Linearity 0.3%)	
60: 6000 mm			
80: 8000 mm			

ELECTRICAL SPEC.

Full Stroke (mm) 量測行程	3000, 4000, 5000, 6000, 8000
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.

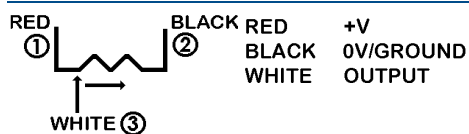
MECHANICAL SPEC.

Wire Specification 線徑規格	Diameter: 1.0 mm SUS304 with nylon coating
Starting Torque on Spring 拉力	$\leq 2,200$ g
Max. Travel Speed 最大往復速度	600 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	< 3,500 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



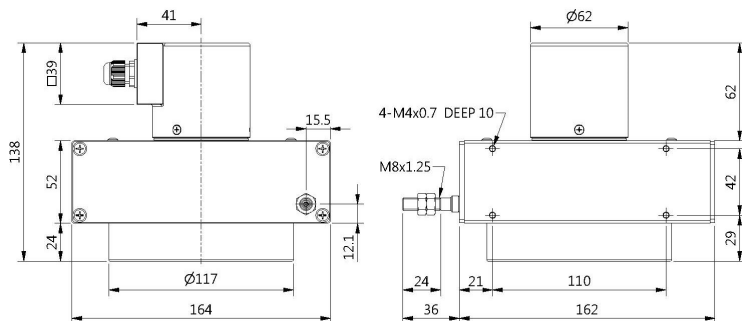
HPS-L1-MA

DISPLACEMENT SENSOR LINEAR WIRE POTENTIOMETER



- Measuring Range 3000 ~ 8000 mm
- Precision Electric 4~20mA Signal Output
- Suitable for Long Measurement Range

DIMENSION



ORDERING INFORMATION

HPS-L1	Measuring Range 量測行程	Signal Mode 信號模式	Pot. Life & Linearity 壽命
	30: 3000 mm	420: 4-20 mA	*F: 5X10 ⁶ cycles, Linearity 0.15%FS
	40: 4000 mm		*F25: 5X10 ⁶ cycles, Linearity 0.3%FS
	50: 5000 mm		*OPTION
	60: 6000 mm		(Std. Pot. Life 1X10 ⁶ cycles,
	80: 8000 mm		

ELECTRICAL SPEC.

Full Stroke (mm) 量測行程	3000, 4000, 5000, 6000, 8000
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: 1.0 mm SUS304 with nylon coating
Starting Torque on Spring 拉力	$\leq 2,200$ g
Max. Travel Speed 最大往復速度	600 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	< 3,500 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

