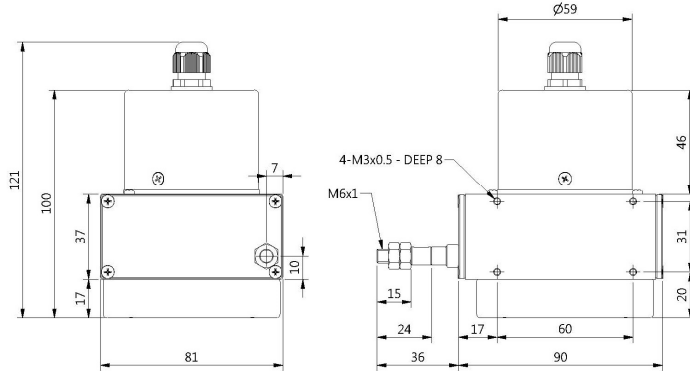


**DISPLACEMENT SENSOR
LINEAR WIRE ENCODER**



- Measuring Range 1000~5000 mm
- Push Pull, Line Driver
- DC 5~26V

DIMENSION



ORDERING INFORMATION

HLS-M-		A-	
<i>Stroke</i> 行程	<i>Resolution</i> 解析	<i>Electronics</i> 電路特性	<i>Male Connector</i> 連接器
10 : 1000 mm	1 : 1 mm	P : Push Pull	*R7 : 7 pin
20 : 2000 mm	05 : 0.5 mm	*H : Line Driver	*R10 : 10 pin
30 : 3000 mm	02 : 0.2 mm		
50 : 5000 mm	01 : 0.1 mm		
	005 : 0.05 mm		
	004 : 0.04 mm		

**OPTION*
(Std.) Cable Length 1 m output

ELECTRICAL SPEC.

Detection System	Incremental 增量型
Output Wave 輸出波形	Square Wave 方波
Stroke (mm) 量測行程	1000, 2000, 3000, 5000
Standard Resolution (mm/pulse) 解析	1, 0.5, 0.2, 0.1, 0.05, 0.04 mm/pulse
Repeatability Error 重複性誤差	(stroke 1000 mm) ±0.03% FS, ±1 count; (stroke 2000 ~ 5000 mm) ±0.05% FS, ±1 count
Output Phase 輸出相	ABZ phase
Electronics 電路特性	Push Pull or Line Driver
Power Supply 供應電源	DC 5~26V
Current Consumption 消耗電流	≤ 60 mA
Output Capacity 輸出容量	Sync. Current: 20 mA, Residual Voltage: 0.5V or less
Max. Response 最大響應頻率	10K Hz ~ 100K Hz
Phase Different 相位差	A, B phase different 90°±45° (T/4±T/8), Z phase T±T/2
Wave Form Rise / Fall 波形上下時間	2 μs or less
Polarity 極性保護	Against Reverse Protection

MECHANICAL SPEC.

Wire Specification 線徑規格	Material: SUS304 with nylon coating; Diameter: 0.7 mm; Breaking load: 23 Kg
Max. Travel Speed 最大往復速度	1,000 mm / sec.
Vibration 震動	10g (10±1,500 Hz)
Shock 衝擊	20g per 11 ms
Cable 電線	Ø5.4, 100 cm long
Weight 重量	< 1,000g
Starting Torque on Spring 拉力	(stroke < 2 m) Max. 600 g; (stroke ≥ 2 m) Max. 900 g

ENVIRONMENTAL SPEC.

Operating Temp. / Humidity 操作溫度/濕度	0°C ~ 60°C, RH 35% ~ 90% (No Condensation)
Storage Temp. 儲存溫度	-20°C ~ 80°C
Protection 保護等級	IP64: Dust & Dripping Proof (only for encoder housing)
Life 壽命	Typical > 1 X 10 ⁶ cycles

HLS-M

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[Option Component]

Ordering Part No. **HA-90074**

