

**ELECTRICAL SPEC.**

Detection System	Incremental 增量型
Output Wave 輸出波形	Square Wave 方波
Stroke (mm) 量測行程	500, 1000, 2000, 3000, 4000, 5000
Standard Resolution (mm/pulse) 解析	1, 0.5, 0.2, 0.1, 0.05 (*0.05 mm/pulse only for stroke:500,1000,2000 mm)
Accuracy 精度	(stroke 500 ~ 1000 mm) $\pm 0.03\%$ FS, ± 1 count (stroke 2000 ~ 5000 mm) $\pm 0.05\%$ FS, ± 1 count
Output Phase 輸出相	AB phase or ABZ phase
Electronics 電路特性	NPN Voltage, NPN Open Collector, Push Pull or Line Driver
Power Supply 供應電源	DC 8~26V, DC 5V fixed
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 $90^\circ \pm 45^\circ$ (T/4 \pm T/8), Z phase T \pm T/2
Wave Form Rise / Fall 波形上下時間	2 μ s or less
Polarity 極性保護	Against Reverse Protection (not with DC 5V)

MECHANICAL SPEC.

Wire specification 線徑規格	Material: SUS304 with nylon coating (stroke < 3 m) Diameter: 0.6 mm; Breaking load: 16 Kg (stroke \geq 3 m) 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 \pm 1,500 Hz)
Shock 衝擊	20g per 11 ms
Cable 電線	$\varnothing 5.4$, 50 cm long
Weight 重量	< 1,000g
Starting Torque on Spring 拉力	(stroke < 2 m)Max. 600g; (stroke \geq 2 m) Max. 900g

ENVIRONMENTAL SPEC.

Operating Temp. / Humidity 操作溫度/濕度	-10°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

ORDERING INFORMATION

EHL-SM	Measuring Range 量測行程	Resolution 解析	Output Phase 輸出相	Electronics 電路特性	Supply Voltage 供應電源
	05: 500 mm 30: 3000 mm 10: 1000 mm 40: 4000 mm 20: 2000 mm 50: 5000 mm	1: 1 mm 05: 0.5 mm 02: 0.2 mm 01: 0.1mm 005: 0.05 mm (*0.05 mm/pulse only for stroke: 500, 1000, 2000 mm)	Blank: AB phase *Z: ABZ phase	Blank: NPN Voltage C: NPN Open Collector PP: Push Pull *L: Line Driver 5 Vdc *HL: Line Driver 5~26 Vdc	Blank: 8~26 Vdc 5V: 5 Vdc fixed