



ELECTRICAL SPEC.

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| Detection System | Incremental 增量型 |
| Output Wave 輸出波形 | Square Wave 方波 |
| Stroke (mm) 量測行程 | 200, 500, 1000 |
| Standard Resolution (mm/pulse) 解析 | 1, 0.5, 0.2, 0.1, 0.04 mm/pulse |
| Accuracy 精度 | ±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 ~ 50K 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 (not with DC 5V) |

MECHANICAL SPEC.

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|------------------------------|---|
| 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 | 1,000 mm / sec. |
| Vibration 震動 | 10g (10±1,500 Hz) |
| Shock 衝擊 | 20g per 11 ms |
| Cable 電線 | Ø4.5, 50 cm long |
| Weight 重量 | < 450g |
| Starting Torque on Spring 拉力 | Max. 700 g |

ENVIRONMENTAL SPEC.

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| 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 | IP50: Dust Proof (only for encoder housing) |
| Life 壽命 | Typical > 1 X 10 ⁶ cycles |

ORDERING INFORMATION

| HLS-S | 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 |
|-------|--|--|----------------------------------|--|----------------------------------|
| | 02 : 200 mm 05 : 500 mm 10 : 1000 mm | 1 : 1 mm 05 : 0.5 mm 02 : 0.2 mm 01 : 0.1 mm 001 : 0.01 mm | Blank: AB phase *Z: ABZ phase | Blank: NPN Voltage C: NPN Open-Collector PP: Push-Pull *L: Line Driver 5Vdc *HL: Line Driver 5~26Vdc | Blank: 8~26Vdc 5V: 5Vdc fixed |