

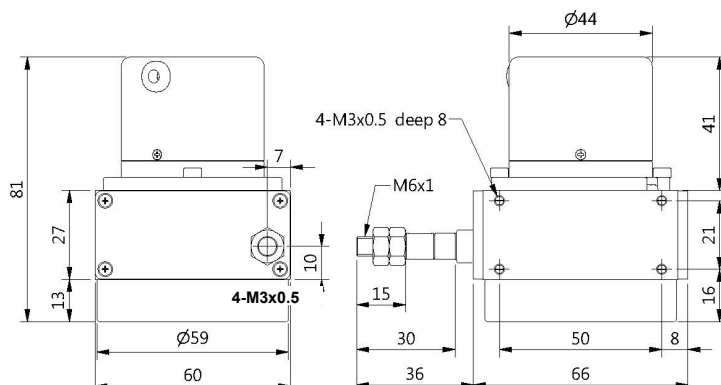
# S-LS

## DISPLACEMENT SENSOR HIGH RESOLUTION



- Built-in Multiplication Circuit
- Stroke 1000 mm
- Line Driver Output

## DIMENSION



## ORDERING INFORMATION

| S-LS-10-               | A-                     |                      |
|------------------------|------------------------|----------------------|
| Multiple Pulse<br>倍頻解析 | Electronics<br>電路特性    | Multiplication<br>倍數 |
| 002                    | L: Line Driver 5Vdc    | M02                  |
| 001                    | H: Line Driver 8-26Vdc | M04                  |
| 0008                   |                        | M05                  |
| 0005                   |                        | M08                  |

## 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                                                  |
| Multiplication Resolution 倍頻解析 | 0.02 mm/pulse (2000 x 2) (002-□-M02)                  |
|                                | 0.01 mm/pulse (2000 x 4) (001-□-M04)                  |
|                                | 0.008 mm/pulse (2000 x 5) (0008-□-M05)                |
|                                | 0.005 mm/pulse (2000 x 8) (0005-□-M08)                |
| Repeatability Error 重覆性誤差      | ±0.1% FS, ±1 count                                    |
| Output Phase 輸出相               | ABZ phase                                             |
| Electronics 電路特性               | Line Driver 差動式                                       |
| Power Supply 供應電源              | DC 5V, DC 8~26V                                       |
| Current Consumption 消耗電流       | ≤ 60 mA (no load)                                     |
| Output Capacity 輸出容量           | Sync. Current: 20 mA, Residual Voltage: 0.5V or less  |
| Max. Response 最大響應頻率           | 150K 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   | 1 μs or less                                          |
| Polarity 極性保護                  | Against Reverse Protection                            |

## MECHANICAL SPEC.

|                              |                                                                               |
|------------------------------|-------------------------------------------------------------------------------|
| Wire Specification 線徑規格      | Material: SUS304 with nylon coating<br>Diameter: 0.6 mm; Breaking load: 16 Kg |
| Max. Travel Speed 最大往復速度     | 500 mm / sec.                                                                 |
| Vibration 震動                 | 10-55 Hz / 1.5 mm VPP, max. 10 G                                              |
| Shock 衝擊                     | 50g per 11 ms                                                                 |
| Cable 電線                     | Ø4.5, 1000 mm long                                                            |
| Weight 重量                    | < 450g                                                                        |
| Starting Torque on Spring 拉力 | Max. 700 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 ~ 70°C                               |
| Protection 保護等級                    | IP50: Dust Proof                           |
| Life 壽命                            | Typical > 1 X 10 <sup>6</sup> cycles       |

# S-LS

## DISPLACEMENT SENSOR HIGH RESOLUTION



- Built-in Multiplication Circuit
- Stroke 1000 mm
- Line Driver Output

### [Option Component]

Ordering Part No. **HA-90074**

