

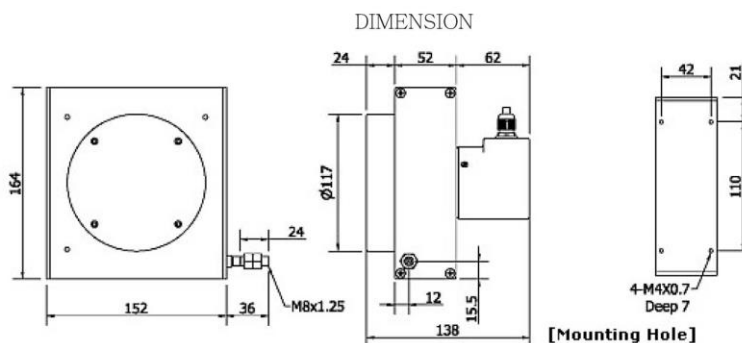


# 得豐實業有限公司

Df Wisdom Industrial CO., LTD

## HPS-L1-R 拉線式電阻尺 (Linear Wire Potentiometer)

適合量測較長行程  
量測行程 3000 ~ 8000 mm  
信號模式: Resistance 5KΩ



\*PRECISION ELECTRIC RESISTANCE SIGNAL OUTPUT\*  
\*SUITABLE FOR LONG MEASUREMENT RANGE\*

### ELECTRICAL SPEC 電器規格

|                              |   |
|------------------------------|---|
| 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)  |
| Resolution 解析                | Essentially infinite  |
| Linearity 線性度                | (standard class) ±0.25%FS<br>(precision class) ±0.1%FS ( ±1 count ) |
| Repeatability 重覆性            | ±0.02%FS  |
| Output Resistance 輸出電阻值      | (standard class) 5K ohm ±10%FS<br>(precision class) 5K ohm ±5%FS    |
| Power Rating(watts)          | 2 W at 40 °C  |
| Recommend Input Voltage 輸入電壓 | 30V(AC/DC) Max., best voltage at 5 ~ 10VAC / VDC                    |

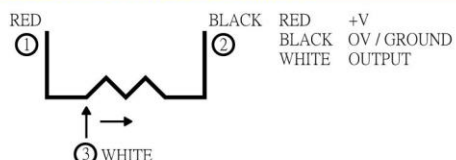
### MECHANICAL SPEC 機械規格

|                              |   |
|------------------------------|---|
| Wire Specification 線徑規格      | Diameter : 1.0 mm SUS304 with nylon coating |
| Max. Travel Speed 最大往復速度     | 600 mm / sec.                               |
| Vibration 震動                 | 10 Hz to 2000 Hz 10g                        |
| Cable 電線                     | Φ5.4 , 100 cm long                          |
| Weight 重量                    | < 3.500 g                                   |
| Starting Torque on Spring 拉力 | < 2.200 g                                   |

### ENVIRONMENTAL SPEC 環境規格

|                                    |   |
|------------------------------------|---|
| Operating Temp. / Humidity 操作溫度/濕度 | -20°C ~ 70°C , RH 35 % ~ 90 % (No Condensation)                 |
| Storage Temp. 儲存溫度                 | -20°C ~ 80°C  |
| Protection 保護等級                    | IP 64 Dust & Dripping Proof<br>(only for potantiometer housing) |

### Electrical Connection 接線圖



### Specifications Model 規格 型號

|          |                              |   |                       |   |   |
|----------|------------------------------|---|-----------------------|---|---|
| HPS-L1 - | <input type="text"/>         | - | <input type="text"/>  | - | <input type="text"/>                                  |
|          | Measuring Range<br>量測行程      |   | Signal Mode<br>信號模式   |   | Life<br>壽命及線性度  |
|          | 30 : 3000 mm    60 : 6000 mm |   | R : Resistance 5K ohm |   | Blank : 1 x 10 <sup>6</sup> cycles , linearity 0.3%FS |
|          | 40 : 4000 mm    80 : 8000 mm |   |                       |   | F : 5 x 10 <sup>6</sup> cycles , linearity 0.15%FS    |
|          | 50 : 5000 mm                 |   |                       |   | F25 : 5 x 10 <sup>6</sup> cycles , linearity 0.3%FS   |



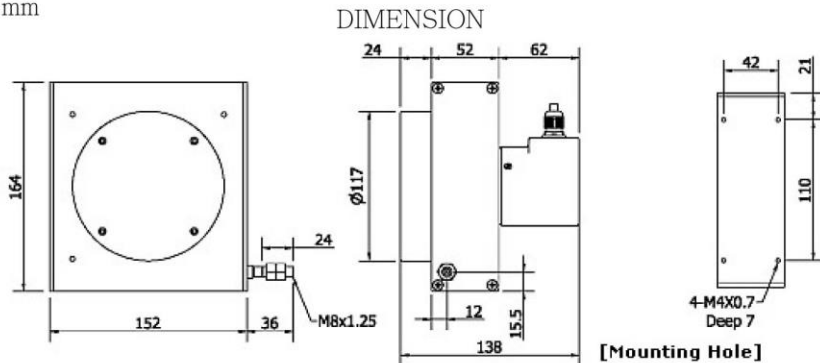


# 得豐實業有限公司

## Dfwisdom Industrial CO., LTD

### HPS-L1-MA 拉線式電位計 (Linear Wire Potentiometer)

適合量測較長行程  
量測行程 3000 ~ 8000 mm  
信號模式: 4-20mA



\*PRECISION ANALOG CURRENT 4 - 20 mA SIGNAL OUTPUT\*  
\*SUITABLE FOR LONG MEASUREMENT RANGE\*

### ELECTRICAL SPEC 電器規格

|                           |   |
|---------------------------|---|
| 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 )   |
| Resolution 解析             | Essentially infinite  |
| Linearity 線性度             | [standard class]±0.3% FS<br>[precision class]±0.15% FS (±1 count) |
| Repeatability 重覆性         | ±0.05 % FS  |
| Input Power 供應電壓          | 15 - 24Vdc ±20%   |
| Input Current 供應電流        | 20 mA max.  |
| Loop Resistance ( load )  | ( loop supply voltage - 12 ) / 0.02 max.                          |
| Zero and Span Adjustment  | ± 5 %   |

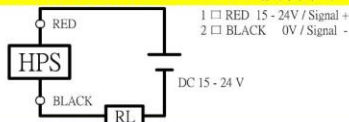
### MECHANICAL SPEC 機械規格

|                              |  |
|------------------------------|--|
| Wire Specification 線徑規格      | Diameter: 1.0 mm SUS304 with nyion coating |
| Max.Travel Speed 最大往復速度      | 600 mm/sec.                                |
| Vibration 震動                 | 10 Hz to 2000 Hz, 10g                      |
| Cable 電線                     | ø 5.4 , 100 cm long                        |
| Weight 重量                    | < 3,500 g                                  |
| Starting Torque on Spring 拉力 | ≤2.200 g                                   |

### ENVIRONMENTAL SPEC 環境規格

|                                      |   |
|--------------------------------------|---|
| Operating Temp./ Humidity<br>操作溫度/濕度 | 0°C ~ 70°C , RH 35 % ~ 90 % (No Condensation)                   |
| Storage Temp. 儲存溫度                   | -20°C ~ 80°C  |
| Protection 保護等級                      | IP 64:Dust & Dripping Proof<br>(only for potentiometer housing) |

### Electrical Connection 接線圖



### Specifications Model 規格 型號

|         |                              |   |                 |   |  |
|---------|------------------------------|---|-----------------|---|--|
| HPS-L1- | [ ]                          | - | [ ]             | - | [ ]  |
|         | Measuring Range              |   | Signal Mode     |   | Potentiometer Life and Linearity                     |
|         | 量測行程                         |   | 信號模式            |   | 壽命及線性度   |
|         | 30 : 3000 mm    60 : 6000 mm |   | 420 : 4 - 20 mA |   | Blank 1 x 10 <sup>6</sup> cycles, linearity 0.3 % FS |
|         | 40 : 4000 mm    80 : 8000 mm |   |                 |   | *F: 5 x 10 <sup>6</sup> cycles, linearity 0.15 % FS  |
|         | 50 : 5000 mm                 |   |                 |   | *F25: 5 x 10 <sup>6</sup> cycles, linearity 0.3 % FS |