

LVDT位移感測器

(LVDT-DISPLACEMENT TRANSDUCER SENSOR)

MODEL
SLVDT



■特點(FEATURES)

- 精確度±0.25%滿刻度(Accuracy ±0.25%F.S.)
- 量測位移量0~2.5mm至0~50mm(Measurement ranges 0~2.5mm to 0~50mm)
- 寬工作溫度範圍-30°C至80°C(Wide operating condition(-30°C to 80°C))
- 感測器本體採用不鏽鋼(SUS316)材質(Stainless steel(SUS316) construction)
- 低價位與高可靠度(Low cost and High stability)

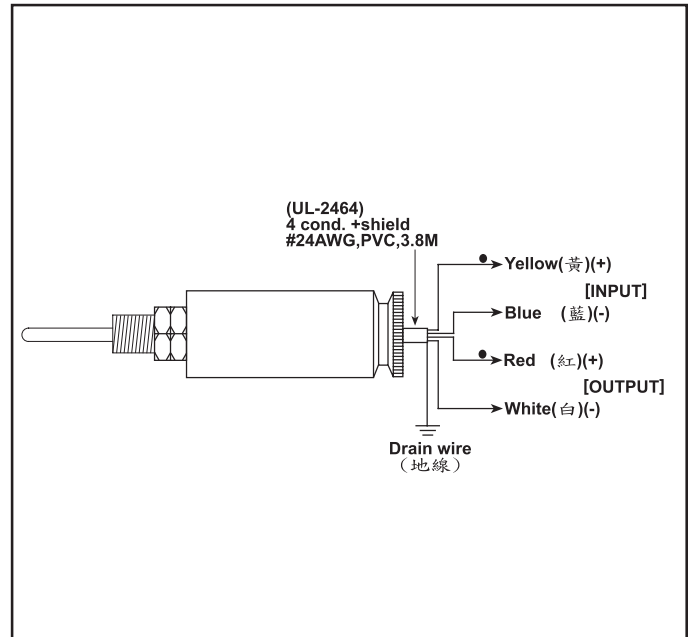
1.MODEL:SLVDT-□ (選購型號)

NO	Measurement Range	Input @ frequency	Output @ Phase Shift
2.5	0~2.50mm(±1.25mm)	5V RMS @1.2KHz	1.88V±10%RMS @ +5 deg
6.5	0~6.50mm(±3.25mm)	5V RMS @350Hz	1.99V±10%RMS @ +6 deg
15	0~15.00mm(±7.50mm)	5V RMS @150Hz	3.32V±10%RMS @ +4.5 deg
50	0~50.00mm(±25.00mm)	5V RMS @2KHz	485mV±10%RMS @ +2 deg

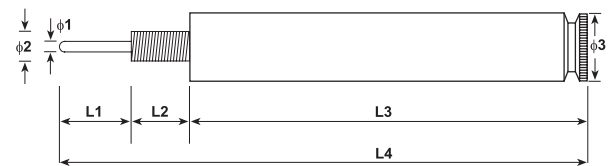
2.SPICIFICATION (主要規格)

- Measuring accuracy (精確度) : $\pm 0.25\% \text{ F.S. (} 25 \pm 35^\circ\text{C)}$
- Repeatability (重複性) : $\pm 0.1\% \text{ F.S.}$
- Input burden (輸入負載) : <math>< 0.25\text{VA}</math>
- Measuring type (量測方式) : Spring return armature
- Maximum permissible over range (最大允許過載範圍) : 1.5 x rated(SLVDT-2.5)
1.35 x rated(SLVDT-6.5)
1.25 x rated(SLVDT-15)
1.15 x rated(SLVDT-50)
- Temp. coefficient (溫度係數) : 25ppm/°C (25±35°C)
- Case/probe/screem materials (本體/探測針/迫緊螺絲材料) : Stainless steel 1.4401(SUS316)
- Seale materials (軸封材料) : Manganese bronze
- Cable type (纜線規格) : 4 conductor + shield,#24AWG,PVC
- Cable length (纜線長度) : 3.8M
- Insulation resistance (絕緣阻抗) : >100M ohm with 500Vdc
- Dielectric strength (絕緣耐壓能力) : 2KVac/1 min. (input/output/case)
- RFI protection (RFI保護) : 2W-150MHz at 2 meter causes less than 0.5% change in output
- Operating condition (使用環境條件) : -30~80°C (20 to 90% RH non-condensed)
- Storage condition (存放環境條件) : -35~80°C (20 to 90% RH non-condensed)
- CE EMC Certification (CE 認證) : EN 55022:1998/A1:2000 Class A
EN 61000-3-2:2000
EN 61000-3-3:1995/A1:2001
EN 55024:1998/A1:2001

3.TERMINAL CONNECTION (接線圖)



4.DIMENSION (unit:mm) (外型尺寸)



MODEL	φ1	φ2	φ3	L1	L2	L3	L4
SLVDT-2.5	4	G1/4" M1.25	25.5	14	24(20牙)	78.5	116.5
SLVDT-6.5	4	G1/4" M1.25	25.5	19.5	24(20牙)	101	144.5
SLVDT-15	4	G1/4" M1.25	25.5	29	28(20牙)	144	201
SLVDT-50	7	M18x1.5	27.5	62	108(70牙)	208	378

- G1/4" M1.25(OD=12.487mm,P=1.25mm)
- M18x1.5(OD=18mm,P=1.5mm)