

# LVDT-DISPLACEMENT TRANSDUCER SENSOR

MODEL  
SLVDT



## FEATURES

- Accuracy  $\pm 0.25\%$  F.S.
- Measurement ranges 0~2.5mm to 0~50mm
- Wide operating condition(-30°C to 80°C)
- Stainless steel(SUS316) construction
- Low cost and High stability

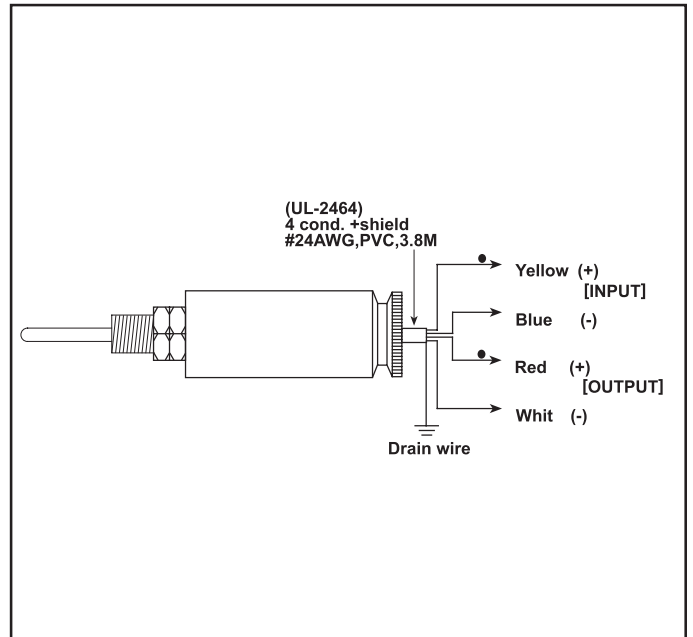
## 1.MODEL:SLVDT-□

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

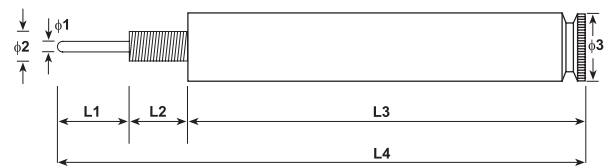
## 2.SPICIFICATION

- Measuring accuracy :  $< \pm 0.25\%$  F.S.(25 $\pm 35^\circ$ C)
- Repeatability :  $< \pm 0.1\%$  F.S.
- Input burden :  $< 0.25$ VA
- Measuring type : Spring return armature
- Maximum permissible over range : 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 : 25ppm/ $^\circ$ C (25 $\pm 35^\circ$ C)
- Case/probe/screm materials : Stainless steel 1.4401(SUS316)
- Seale materials : Manganese bronze
- Cable type : 4 conductor + shield,#24AWG,PVC
- Cable length : 3.8M
- Insulation resistance :  $> 100$ M ohm with 500Vdc
- Dielectric strength : 2KVac/1 min. (input/output/case)
- RFI protection : 2W-150MHz at 2 meter causes less than 0.5% change in output
- Operating condition : -30~80°C (20 to 90% RH non-condensed)
- Storage condition : -35~80°C (20 to 90% RH non-condensed)
- CE EMC Certification : 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



## 4.DIMENSION (unit:mm)



MODEL	$\phi 1$	$\phi 2$	$\phi 3$	L1	L2	L3	L4
SLVDT-2.5	4	G1/4" M1.25	25.5	14	24	78.5	116.5
SLVDT-6.5	4	G1/4" M1.25	25.5	19.5	24	101	144.5
SLVDT-15	4	G1/4" M1.25	25.5	29	28	144	201
SLVDT-50	7	M18x1.5	27.5	62	108	208	378

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