

Heavy Duty - LVDT

Built In Electronics

- 2mm to 50mm Stroke Lengths
- $\pm 0.5\%$ Linearity (0.25% opt.)
- Rugged Nickel Plated Steel Housing
- Spring Return Armature
- IP65 Protection Grade (IP67 opt.)



The inductive series ISDT is a heavy duty, IP65 rated displacement transducer featuring high accuracy and extremely long life. Internal electronics facilitate simple field integration by supplying a proportional analog output that requires no further signal conditioning. Input voltage can either be 24 V or ± 15 V. Internal shaft (armature) spring return acts to maintain shaft in the extended position. Available in cable or connector version. Standard version features IP65 protection, IP67 protection is optional.

Electrical Specifications	ISDT2	ISDT5	ISDT10	ISDT20	ISDT50
Electrical Stroke (mm)	± 1	± 2.5	± 5	± 10	± 25
Linearity (% F.S.)	$< \pm 0.5$ ($< \pm 0.25$ optional)				
Excitation Voltage (V DC)	± 15 ($\pm 5\%$) / 24 ($\pm 5\%$)				
Excitation Current max. (mA)	± 40 / 50 (± 60 / 70 current output)				
Output Signal	± 5 V / 0-5 V / 0-10 V / 0-20 mA / 4-20 mA (see below chart)				
Output Load	> 100 K Ohm voltage output / < 250 Ohm current output				
Output Noise (Ripple)	< 20 mV RMS				
Cut Off Frequency (-3 db)	100 hz				
Hysteris (% F.S.)	< 0.01				
Temperature Coefficient	0.05 (% F. S. / $^{\circ}$ C)				
Environmental Specifications					
Operating Temperature	0 $^{\circ}$ C to +60 $^{\circ}$ C				
Storage Temperature	-30 $^{\circ}$ C to +80 $^{\circ}$ C				
IP Protection Grade	IP65 (IP67 optional)				
Shock	100g / 2ms				
Vibration	10g / 2 hz...2 khz				
Materials					
Housing	Nickel plated steel				
Core material	Mu-Metal				
Weight (g)	130	145	165	215	285

