

# LVDT

## Built In Electronics

- 2mm to 50mm Stroke Lengths
- $\pm 0.75\%$  Linearity
- Steel / Polyamide Housing
- Spring Return (external spring)
- IP40 Protection Grade



The inductive series EDCT is an economical LVDT 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 is 24VDC. External shaft spring acts to maintain shaft in the extended position.

Electrical Specifications	EDCT2	EDCT10	EDCT20	EDCT50
Electrical Stroke (mm)	$\pm 1$	$\pm 5$	$\pm 10$	$\pm 25$
Linearity (% F.S.)	$< \pm 0.75$			
Excitation Voltage (V DC)	$24 \pm 5\%$			
Excitation Current max. (mA)	50 (70 current output)			
Output Signal	0-10 V or 0-20 mA			
Output Load	$>100$ kOhm voltage output / $<250$ Ohm current output			
Output Noise (Ripple)	$< 20$ mV RMS			
Cut Off Frequency (-3 db)	100 hz			
Hysteresis (% 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	IP40			
Shock	100g / 2ms			
Vibration	10g / 2 hz ~ 2 khz			

### Materials

Housing	Nickel plated steel / Polyamide			
Core material	Mu-Metal			
Weight (g)	85	120	175	240

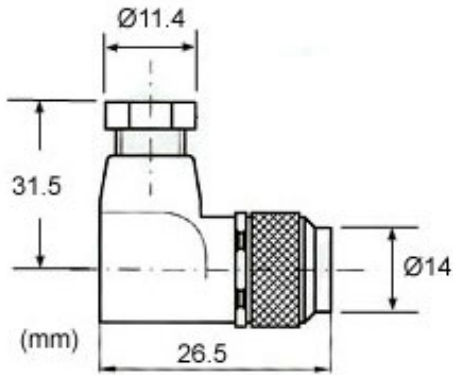
### Connector Terminations

### Electronics Package

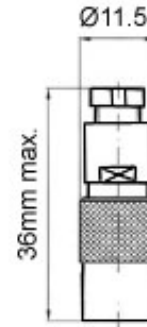
PIN	Designation	Type	Excitation	Output
1	not used	2410	24VDC	0 - 10 V
2	+24V	2420		0 - 20 mA
3	Signal - GND			
4	Output Signal			
5	Excitation - GND			

**Mating Connectors**

**Type SDW (IP54)**



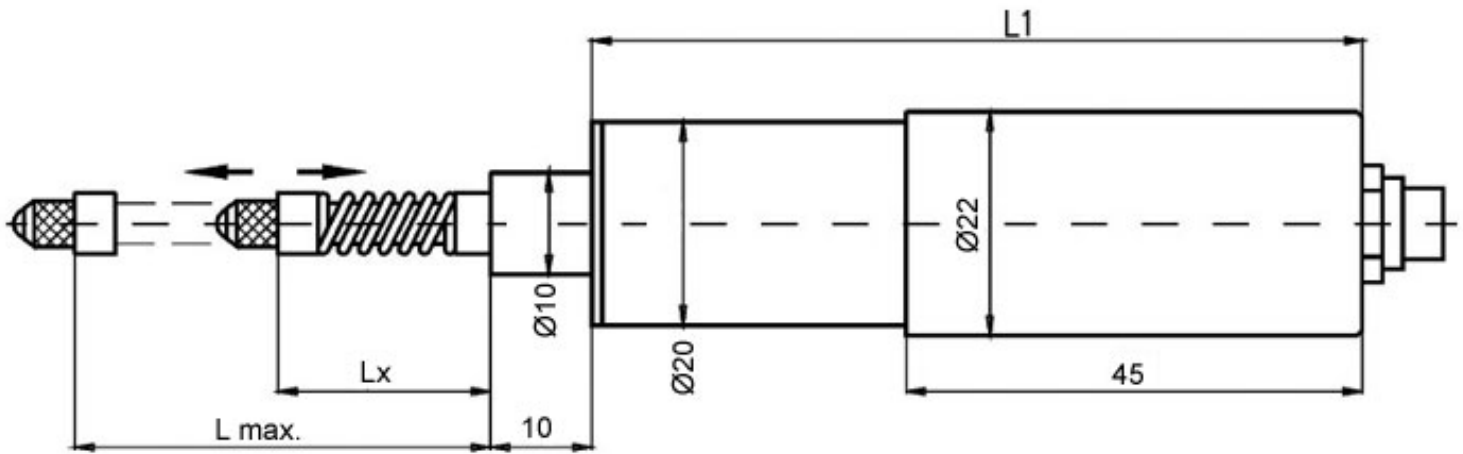
**Type SDG (IP65)**



**Dimension Table (mm)**

	<b>EDCT2</b>	<b>EDCT10</b>	<b>EDCT20</b>	<b>EDCT50</b>
L1 ( $\pm 0.5\text{mm}$ )	76	101	140	185
Lmax. ( $\pm 1.5\text{mm}$ )	35	40	45	75
Lx ( $\pm 1.5\text{mm}$ ) (electrical Zero position)	28	27	28.5	45

**Dimensions (mm)**



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