

LVDT w/Built In Electronics

- 2mm to 50mm Stroke Lengths
- $\pm 0.75\%$ Linearity
- Steel / Polyamide Housing
- Un-Guided Armature
- IP40 Protection Grade

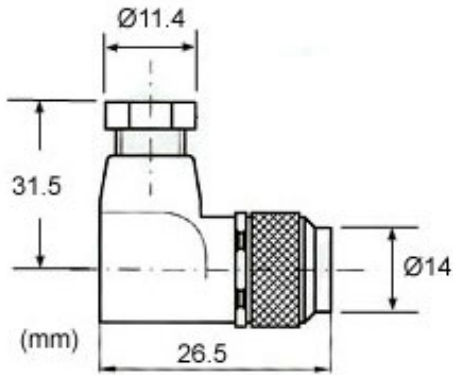


The inductive series EDCL is an economical LVDT featuring high accuracy and extremely long life. Internal electronics facilitate simple field integration by supplying a proportional analog output that requires no further signal conditioning. Input is 24VDC. External shaft spring acts to maintain shaft in the extended position.

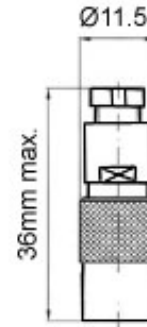
Electrical Specifications	EDCL2	EDCL10	EDCL20	EDCL50
Electrical Stroke (mm)	± 1	± 5	± 10	± 25
Linearity (% F.S.)	< ± 0.75			
Excitation Voltage (V DC)	24 $\pm 5\%$			
Excitation Current max. (mA)	50 (70 current output)			
Output Signal	0-10 V or 0-20 mA			
Output Load	>100 kOhm voltage output / <250 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			
Core Weight (g)	2	4.5	10	13
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)



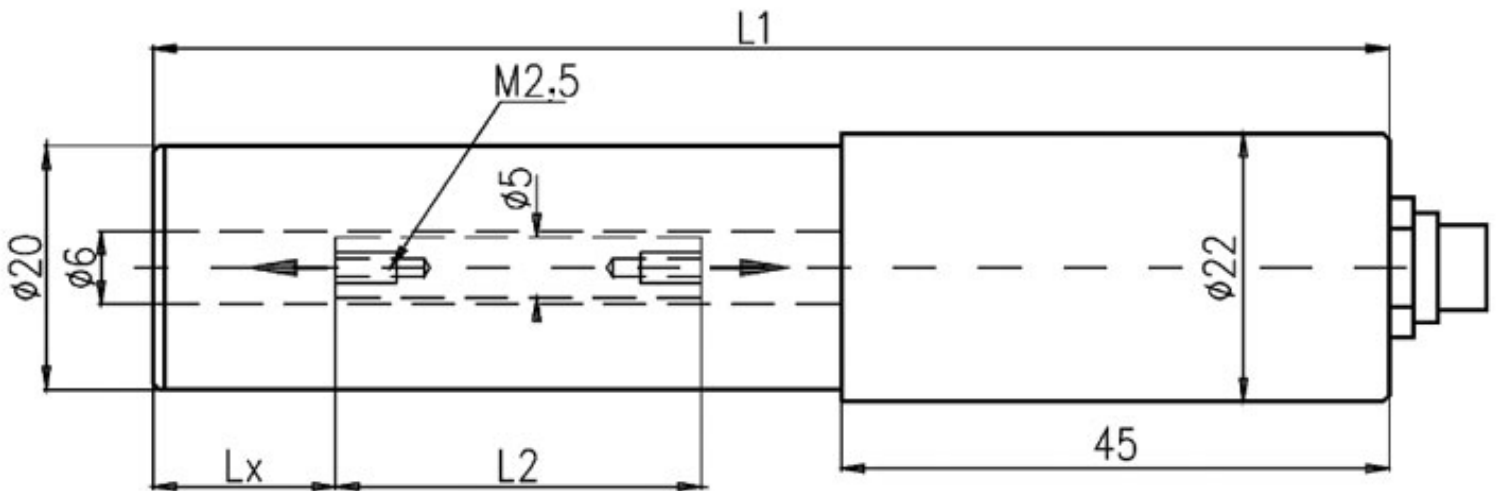
Type SDG (IP65)



Dimension Table (mm)

	EDCL2	EDCL10	EDCL20	EDCL50
L1 ($\pm 0.5\text{mm}$)	76	101	140	185
L2	17	30	62	80
Lx ($\pm 1.5\text{mm}$) (electrical Zero position)	9	15	18	32

Dimensions (mm)



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