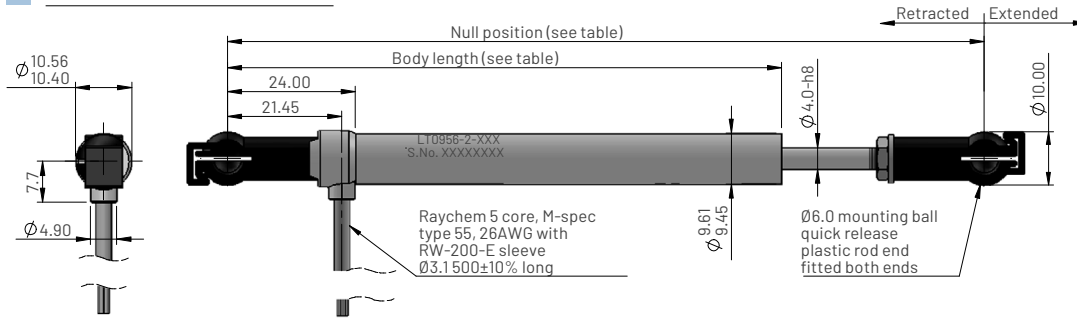


LT0956 Series - LVDT position sensor (25mm to 200mm measurement range) Ø9.5mm Ultra-compact. Quick-Release ball joint mounting.

Dimensions for LT0957-2



Ordering code

LT0956-2-XXX

Measurement range in mm

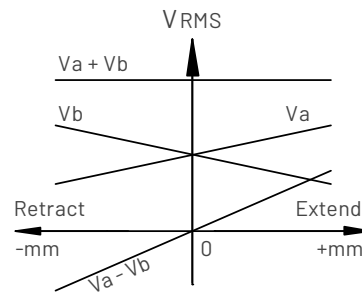
Electrical and mechanical specification

Parameters	Values						Units	Tol	Notes
Measurement range (MR)	025	050	075	100	150	200	mm		
Electrical stroke	±12.5	±25.0	±37.5	±50.0	±75.0	±100.0	mm		
Mechanical stroke	±13.0	±25.5	±38.0	±50.5	±75.5	±100.5	mm	Max	
Body length	104	129	154	195	247	296	mm	±0.5	
Null position	142	180	217	270	349	422	mm	±1.0	
Input voltage (Ve)	3.0						Vrms	±5%	1
Input frequency	2500						Hz	±5%	
Non-linearity	<±0.5						% FS		3, 6
Ratiometric sensitivity	0.0264	0.0155	0.0094	0.0089	0.0072	0.0065	R/mm	±5%	2, 3
Va and Vb voltage range	0.520 - 1.031	0.671 - 1.519	1.012 - 2.114	0.608 - 1.582	0.600 - 2.010	0.431 - 2.030	Vrms	Nom	4, 5
(Va + Vb)/Ve Summation ratio	0.52	0.73	1.042	0.73	0.87	0.82	Vrms/Ve	±20%	
Thermal drift	<±0.010						%FS/°C		6, 7
Input impedance	>150						Ohms		
Insulation resistance	>100						Mohms		8
Operating temperature range	-55 to +135						°C		
IP rating	IP67								
Weight (excluding cable)	36	49	60	76	98	118	grams	Nom	
Materials	Housing - Stainless steel 410, Shaft - Stainless steel 316								

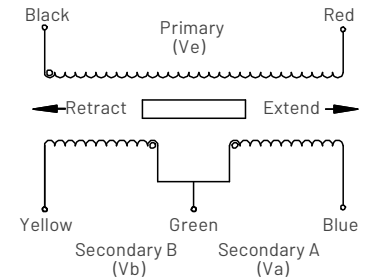
Notes

- Sine waveform. THD <3%.
- Ratiometric measurement mode (R) is defined as $(V_a - V_b)/(V_a + V_b)$.
- Non-linearity error and ratiometric sensitivity is calculated by least squares best fit method.
- Va and Vb are ratiometric with Ve.
- Blue (Va) increases and Yellow (Vb) decreases as shaft extends (as shown in Output schematic).
- FS is defined as ratiometric sensitivity x measurement range (MR).
- Average thermal drift over operating temperature range.
- Between prim and sec coils and all coils to case at 500Vdc.

LVDT AC Output schematic



Electrical connections



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 Active Sensors Ltd,
 Unit 12, Wilverley Road,
 Christchurch, Dorset,
 BH23 3RU, UK

North America
 Active Sensors Inc,
 8520 Allison Pointe Blvd, Suite 220,
 Indianapolis,
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