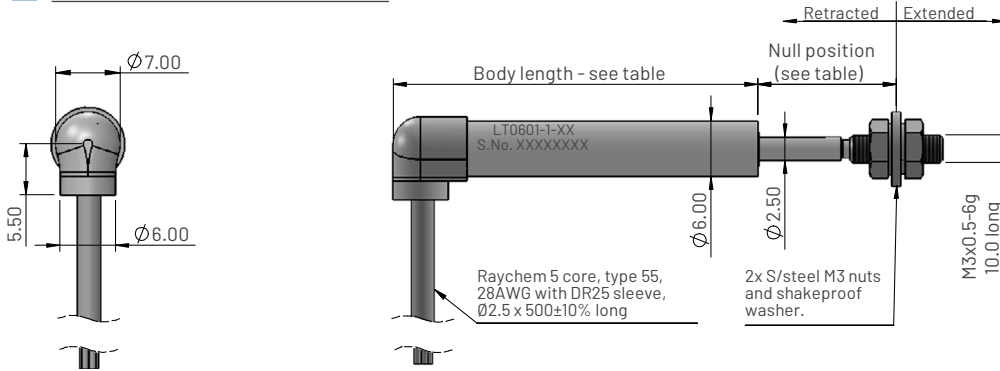


LT0600 Series - LVDT position sensor (75mm to 150mm measurement range)
 Ø6mm Pencil-slim, ultra-compact body

Dimensions for LT0601-1-XXX

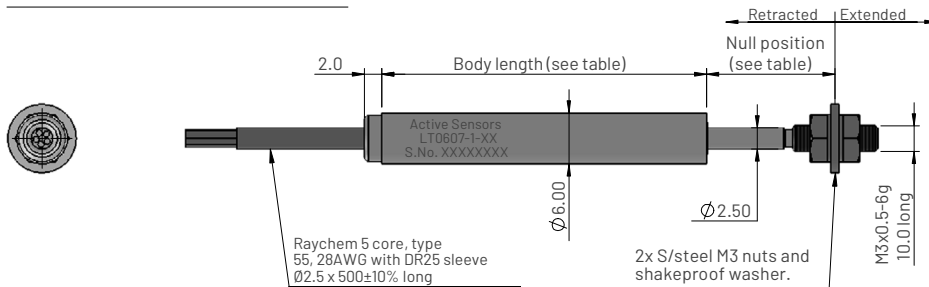


Ordering code

LT0601-1-XXX

Measurement range in mm

Dimensions for LT0607-1-XXX

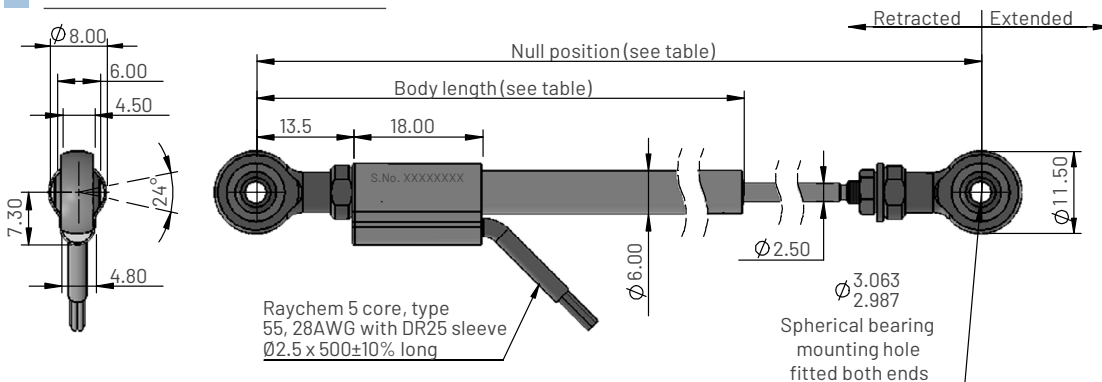


Ordering code

LT0607-1-XXX

Measurement range in mm

Dimensions for LT0622-1-XXX



Ordering code

LT0622-1-XXX

Measurement range in mm

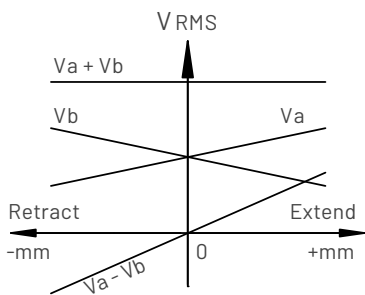
Electrical and mechanical specification

| Parameters | Values | | | Units | Tol | Notes |
|------------------------------|--|---------------|---------------|---------|------|-------|
| Measurement range (MR) | 075 | 100 | 150 | mm | | |
| Electrical stroke | ±37.5 | ±50.0 | ±75.0 | mm | | |
| Mechanical stroke | ±38.5 | ±51.0 | ±76.0 | mm | Max | |
| Body length LT0601 | 112.6 | 145.6 | 205.6 | mm | ±0.5 | |
| Body length LT0607 | 112.6 | 145.6 | 205.6 | mm | ±0.5 | |
| Body length LT0622 | 123.5 | 156.5 | 216.5 | mm | ±0.5 | |
| Null position LT0601 | 47.3 | 59.8 | 84.8 | mm | ±1.0 | |
| Null position LT0607 | 47.3 | 59.8 | 84.8 | mm | ±1.0 | |
| Null position LT0622 | 183.0 | 232.5 | 318.5 | mm | ±1.0 | |
| Input voltage (Ve) | 3.0 | | | Vrms | ±5% | 1 |
| Input frequency | 2500 | | | Hz | ±5% | |
| Non-linearity | <±0.3 | | | % FS | | 3, 6 |
| Ratiometric sensitivity | 0.0156 | 0.0108 | 0.0082 | R/mm | ±3% | 2, 3 |
| Va and Vb voltage range | 0.394 - 1.505 | 0.389 - 1.303 | 0.410 - 1.720 | Vrms | Nom | 4, 5 |
| (Va + Vb)/Ve Summation ratio | 0.633 | 0.564 | 0.710 | Vrms/Ve | ±20% | |
| Thermal drift | <±0.005 | | | %FS/°C | | 6, 7 |
| Input impedance | >120 | | | Ohms | | |
| Insulation resistance | >100 | | | Mohms | | 8 |
| Operating temperature range | -55 to +135 | | | °C | | |
| IP rating | IP67 | | | | | |
| Weight (excluding cable) | 20 | 26 | 34 | grams | Nom | |
| Materials | Housing - Stainless steel 416, Shaft - Stainless steel 316 | | | | | |

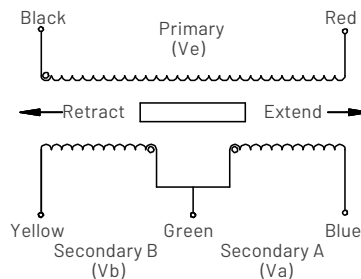
Notes

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

LVDT AC Output schematic



Electrical connections



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

North America
 Active Sensors Inc,
 8520 Allison Pointe Blvd, Suite 220,
 Indianapolis,
 IN 46250, USA