



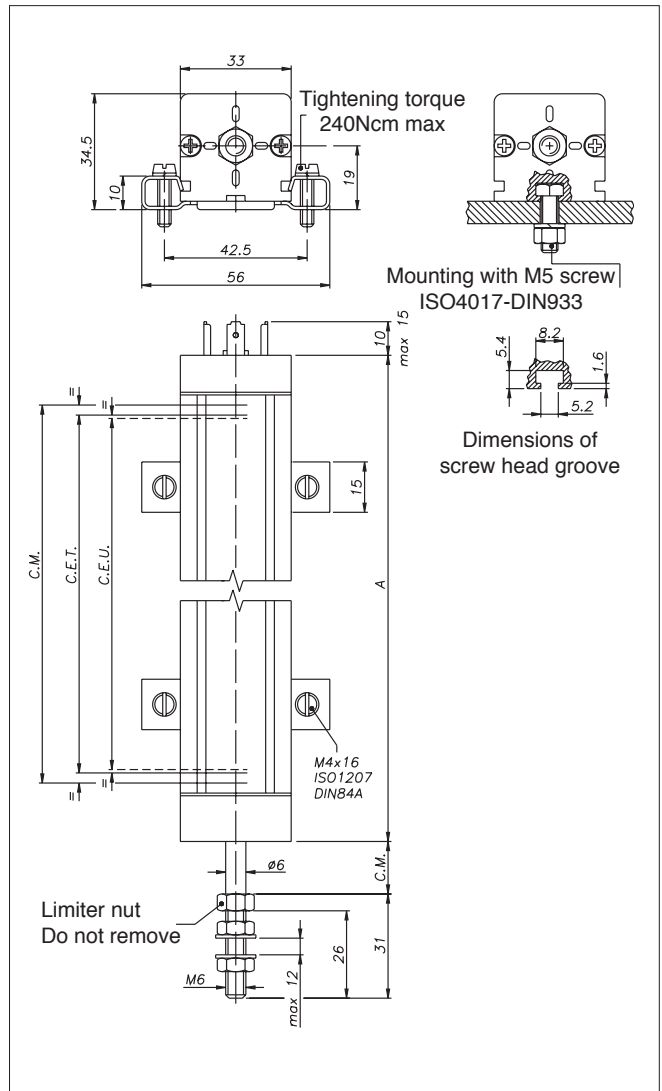
### Main features

- The transducer has been improved in order to guarantee greater reliability under all conditions
- A sturdier structure makes the LT series even stronger for applications with heavy vibration
- Installation is made simpler by the absence of electrical signal variation in output, outside the Theoretical Electrical Stroke
- The new grooves provide an excellent alternative to the usual system of fastening with brackets
- Ideal for applications on plastic injection presses, vertical presses, and on many other processing machines

### TECHNICAL DATA

Useful electrical stroke (C.E.U.)	50/75/100/130/150/175/200/225/275/300/350/375/400/450/500/600/650/750/900
Independent linearity (within C.E.U.)	± 0.05%
Resolution	Infinite
Repeatability	0.01 mm
Electrical connections	LTM 4-pole connector DIN43650 LTH 3-pole connector LTB 5-pole connector DIN43322 LTF 1 meter 3-pole shielded cable
Displacement speed	Standard ≤ 10 m/s
Protection level	IP60 (IP65 on request)
Life	> 25x10 <sup>6</sup> m strokes, or > 100x10 <sup>6</sup> maneuvers, whichever is less (within C.E.U.)
Displacement force	3,5N (typical) IP60 version 15N (typical) IP65 version
Vibrations	5...2000Hz, A <sub>max</sub> = 0.75 mm a <sub>max</sub> = 20 g
Shock	50 g, 11ms.
Acceleration	200 m/s <sup>2</sup> max (20g)
Tolerance on resistance	± 20%
Recommended cursor current	< 0.1 μA
Maximum cursor current	10mA
Maximum applicable voltage	60V
Electrical isolation	>100MΩ at 500V~, 1bar, 2s
Dielectric strength	< 100μA at 500V~, 50Hz, 2s, 1bar
Dissipation at 40°C (0W at 120°C)	3W
Thermal coefficient of resistance	-200...+ 200 ppm/°C typical
Actual Temperature Coefficient of the output voltage	≤ 5 ppm/°C typical
Working temperature	-30...+100°C
Storage temperature	-50...+120°C
Material for transducer case	Anodised aluminium Nylon 66 G
Material for pull shaft	Stainless steel AISI 303
Mounting	Brackets with adjustable distance between centers or with M5 screw ISO4017-DIN933

### MECHANICAL DIMENSIONS



**Important:** all the data reported in the catalogue linearity, lifetime, temperature coefficient are valid for a sensor utilization as a ratiometric device with a max current across the cursor  $I_c \leq 0.1 \mu A$

