



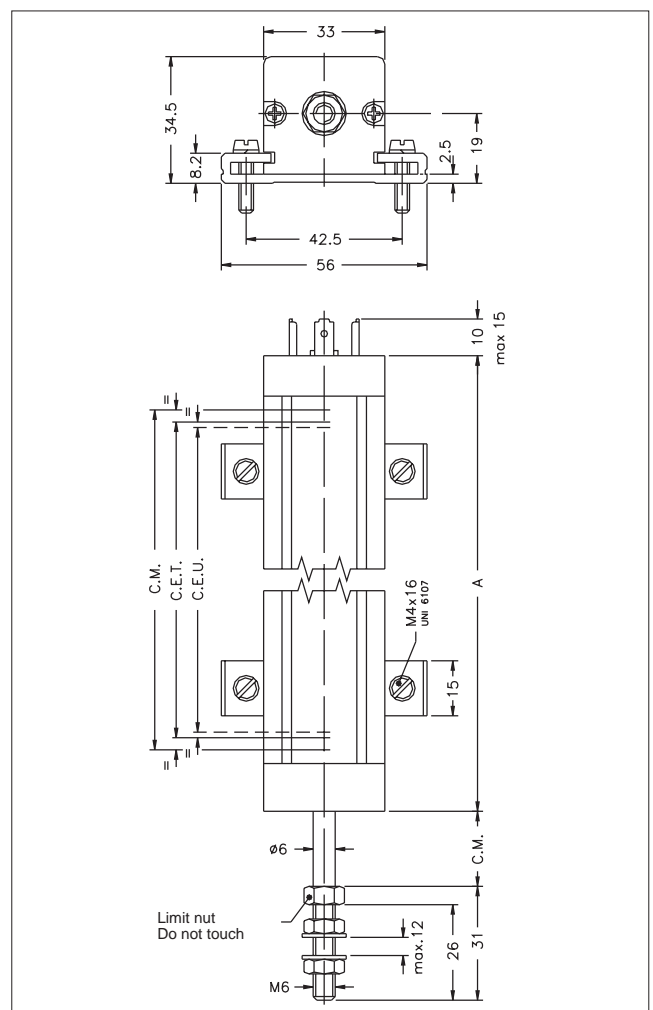
### Main features

- 50 to 900 mm stroke.
- Mechanical linkage using M6 thread
- Independent linearity  $\pm 0,05\%$
- Repetibility 0,01 mm.
- Infinite resolution
- No variation of electrical signal outside theoretical electrical stroke
- Displacement speed up to 5 m/s (optional 10m/s)
- Working temperature:  $-30...+100^{\circ}\text{C}$
- Electrical connections:  
 LT H 3 pole connector  
 LT M 4 pole connector to standard DIN43650 ISO4400  
 LT B 5 pole connector DIN43322  
 LT F 3 pole screened cable (1m length).
- Life duration:  $> 25 \times 10^6$  meters or  $> 100 \times 10^6$  operations whichever is the smaller (within C.E.U.)
- Grade of protection IP60 (optional IP65)

### TECHNICAL DATA

Useful electrical stroke (C.E.U.)	50/100/130/150/175/200/225/275/300/375/400/450/500/600/750/900
Independent linearity (within C.E.U.)	$\pm 0,05\%$
Displacement speed	Standard $\leq 5$ m/s (optional $\leq 10$ m/s)
Displacement force	$\leq 2\text{N}$ Version IP60 $\leq 10\text{N}$ Version IP65
Vibrations	5...2000Hz, $A_{\text{max}} = 0,75$ mm $a_{\text{max}} = 20$ g
Shock	50 g, 11ms.
Operative acceleration	200 $\text{m/s}^2$ max (20g)
Tolerance on resistance	$\pm 20\%$
Recommended cursor current	$< 0,1 \mu\text{A}$
Maximum cursor current	10mA
Maximum applicable voltage	60V
Electrical isolation	$> 100\text{M}\Omega$ at 500V~, 1bar, 2s
Dielectric strength	$< 100 \mu\text{A}$ at 500V~, 50Hz, 2s, 1bar
Dissipation at 40°C (0W at 120°C)	3W
Temp. Coeff. of the resistance	$-200 \pm 200\text{ppm}/^{\circ}\text{C}$
Actual Temperature Coefficient of the output voltage	$< 1,5\text{ppm}/^{\circ}\text{C}$
Working temperature	$-30...+100^{\circ}\text{C}$
Storage temperature	$-50...+120^{\circ}\text{C}$
Case material	Anodised aluminium Nylon 66 GF 40
Control rod material	Stainless steel AISI 303
Fixing	Brackets with variable longitudinal axis

### 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  $I_c \leq 0.1 \mu\text{A}$ .

