



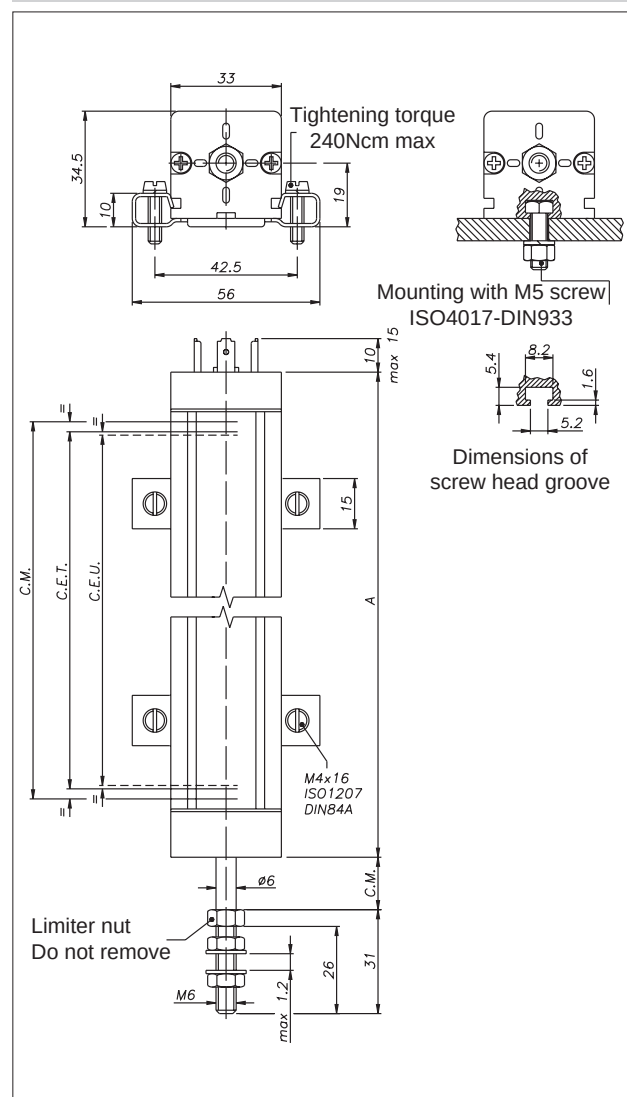
Main features

- 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	0.01mm
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 ≤ 10m/s
Protection level	IP60 (IP65 on request)
Life	>25x10 ⁶ m strokes, or 100x10 ⁶ maneuvers, whichever is less (within C.E.U.)
Displacement force	≤ 3,5N IP60 version ≤ 25N IP65 version
Vibrations	5...2000Hz, Amax = 0.75 mm amax. = 20 g
Shock	50 g, 11ms.
Acceleration	200 m/s ² 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	< 100 μA 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	≤ 5ppm/°C typical
Working temperature	-30...+100°C
Storage temperature	-50...+120°C
Material for transducer case	Anodised aluminium Nylon 66 G 25
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 $I_c \leq 0.1 \mu A$

ELECTRICAL / MECHANICAL DATA

MODEL		50	75	100	130	150	175	200	225	275	300	350	375	400	450	500	600	650	750	900
Useful electric stroke (C.E.U.) +3/-0	mm	50	75	100	130	150	175	200	225	275	300	350	375	400	450	500	600	650	750	900
Theoretical electrical stroke (C.E.T.) ±1	mm	C.E.U. + 3						C.E.U. + 4				355	380	406	457	508	609	660	762	914
Resistance (C.E.T.)	kΩ	5						5				5	5	5	5	5	5	5	10	10
Mechanical stroke (C.M.)	mm	C.E.U. + 9						C.E.U. + 10				361	386	412	463	518	619	670	772	924
Case length (A)	mm	C.E.U. + 63						C.E.U. + 64				415	440	466	517	572	673	725	826	978

ELECTRICAL CONNECTIONS

Connector output

Cable output

3 (+) blue

2 yellow

1 (-) brown

C.E.U.

C.E.T.

C.M.

Connection side

LTM Output

LTH Output

LTB Output

LTF Output

1 m 3-pole cable

- **INSTALLATION INSTRUCTIONS**
- Make the specified electrical connections (DO NOT use the transducer as a variable resistance)
- When calibrating the transducer, be careful to set the stroke so that the output does not drop below 1% or rise above 99% of the voltage level.

ORDER CODE

Displacement transducer **LT**

4-pole connector output DIN43650 ISO4400	M
3-pole connector output	H
5-pole connector output DIN43322	B
3-pole PVC cable output 3x0.25 1m	F

Model

IP60 version	S
IP65 version	P

No certificate attached	0
Linearity curve to be attached	L

Cable length: 1 m	0
Cable length: 2 m	2
Cable length: 3 m	3
Other lengths on request	

Color of plastic heads (green)	0
Color of plastic heads (black)	N

Example: **LT - M - 0300 - S 000X000X00**

LTdisplacement transducer, 4-pole connector output DIN43650 - ISO 4400, useful electrical stroke (C.E.U.) 300mm. IP60 protection, no certificate attached, green plastic components.

ACCESSORIES

STANDARD LT mounting kit, 2 brackets, screws	Code PKIT009
ON REQUEST LTM 4-pole 90° radial female connector DIN43650 IP65 PG9 clamp for Ø6-Ø8mm cable LTH 3-pole axial female connector IP40 clamp for Ø4-Ø6mm cable LTB 5-pole axial female connector DIN43322 IP40 clamp for Ø4-Ø6mm cable LTB 5-pole axial female connector DIN43322IP65 PG7 clamp for Ø4-Ø6mm cable LTB 5-pole 90° radial female connector DIN43322 IP40 clamp for Ø4-Ø6mm cable Ball connection joint	Code CON006 CON002 CON011 CON012 CON013 PKIT015

GEFRAN spa reserves the right to make any kind of design or functional modification at any moment without prior notice

GEFRAN

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