



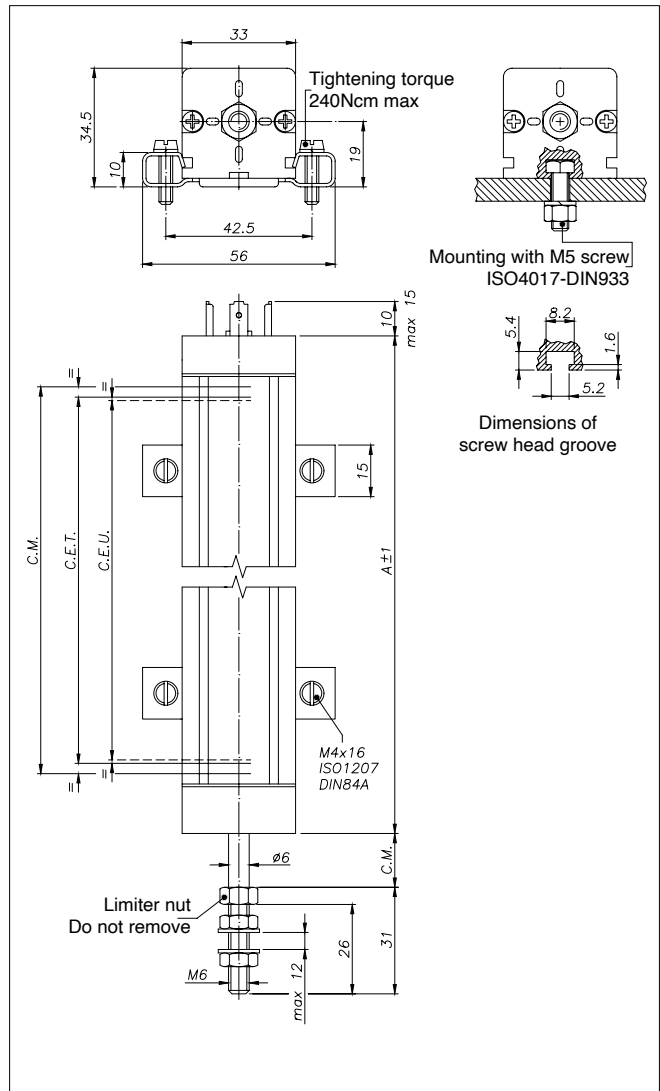
Main features

- 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.) | from 50 to 1350 mm (for intermediate strokes see table "Electrical / Mechanical Data") |
| 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 LTZ 4-pole connector M12 |
| Displacement speed | Standard ≤ 10 m/s |
| Protection level | IP60 (IP65 on request) |
| Life | > 25x10 ⁹ m strokes, or > 100x10 ⁶ maneuvers, whichever is less (within C.E.U.) |
| Displacement force | 3,5N (typical) IP60 version 15N (typical) IP65 version |
| Vibrations | 5...2000Hz, A _{max} = 0.75 mm a _{max} = 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 | < 100μA at 500V~, 50Hz, 2s, 1bar |
| Dissipation at 40°C (0W at 120°C) | 3W |
| 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 $I_c \leq 0.1$ mA

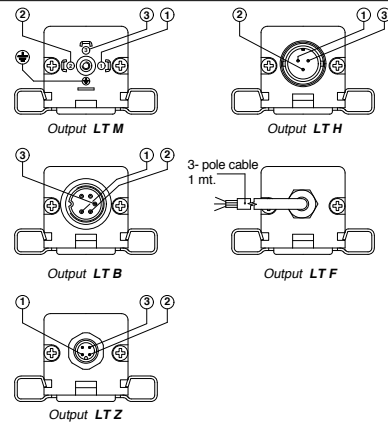
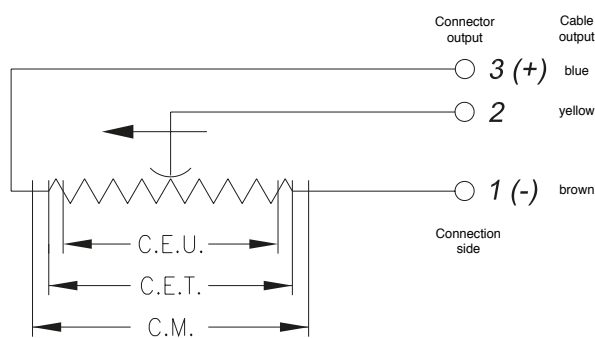
ELECTRICAL / MECHANICAL DATA

| MODEL | | 50 | 75 | 100 | 130 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 350 | 360 | 375 | 400 | 450 | 500 | |
|-------------------------------------------|----|-------------|----|-----|-----|-----|-----|-------------|-------|-------------|-----|-------|-----|-----|-----|-----|-----|-----|-----|
| Useful electric stroke (C.E.U.) +3/-0 | mm | 50 | 75 | 100 | 130 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 350 | 360 | 375 | 400 | 450 | 500 | |
| Theoretical electrical stroke (C.E.T.) ±1 | mm | C.E.U. + 3 | | | | | | C.E.U. + 4 | | | | | | 355 | 365 | 380 | 406 | 457 | 508 |
| Resistance (C.E.T.) | kΩ | 5 | | | | | | | | | | | | | | | | | |
| Mechanical stroke (C.M.) | mm | C.E.U. + 9 | | | | | | C.E.U. + 10 | 260 | C.E.U. + 10 | 361 | 371 | 386 | 412 | 463 | 518 | | | |
| Case length (A) | mm | C.E.U. + 63 | | | | | | C.E.U. + 64 | 314,8 | C.E.U. + 64 | 415 | 425,8 | 440 | 466 | 517 | 572 | | | |

| MODEL | | 600 | 650 | 700 | 750 | 800 | 900 | 950* | 1000* | 1050* | 1100* | 1200* | 1250* | 1350* | |
|-------------------------------------------|----|-----|-----|-------|-----|-----|-----|--------|--------|--------|--------|--------|--------|--------|--|
| Useful electric stroke (C.E.U.) +3/-0 | mm | 600 | 650 | 700 | 750 | 800 | 900 | 950 | 1000 | 1050 | 1100 | 1200 | 1250 | 1350 | |
| Theoretical electrical stroke (C.E.T.) ±1 | mm | 609 | 660 | 711 | 762 | 813 | 914 | 965 | 1016 | 1067 | 1118 | 1220 | 1250 | 1350 | |
| Resistance (C.E.T.) | kΩ | 5 | | 10 | | | | | | 20 | | | | | |
| Mechanical stroke (C.M.) | mm | 619 | 670 | 717 | 772 | 823 | 924 | 975 | 1026 | 1077 | 1128 | 1230 | 1280 | 1380 | |
| Case length (A) | mm | 673 | 725 | 771,8 | 826 | 826 | 978 | 1029,8 | 1080,8 | 1131,8 | 1182,8 | 1284,8 | 1334,8 | 1434,8 | |

* = Only for vertical installations

ELECTRICAL CONNECTIONS



• 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.

INSTALLATION INSTRUCTION

