GEFRAN

TECHNICAL DATA

Mounting

LT67

RECTILINEAR DISPLACEMENT TRANSDUCER WITH IP67 PROTECTION

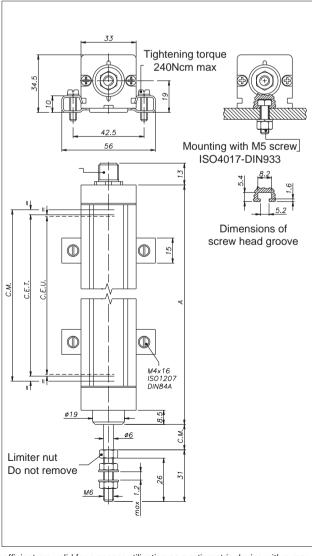


Main features

- This transducer is designed to guarantee a high protection level (IP67) in applications under harsh conditions and outdoors, where it may be necessary to work in the direct presence of dust, dirt, or liquids (not in prolonged immersion)
- The grooves on the profile provide an excellent alternative to the usual system of fastening with brackets
- Ideal for applications on plastic injection presses with installation at points that are highly exposed to lubricants
- Also indicated for processing machines on which the transducer cannot be protected by guards

50/75/100/130/150/175/200/225/ Useful electrical stroke (C.E.U.) 275/300/350/375/400/450/500/ 600/650/750/900 Independent linearity ± 0.05% (within C.E.U.) $\pm 0.075\%$ for strokes ≤ 150 mm Resolution infinite Repeatability 0.01mm Electrical connection M12 4-pole connector Protection level IP67 (use M12 4-pole female connector with IP67 or higher protection level) Life > 25x106m strokes, or (NOT used in > 100x106 maneuvers, whichever is less (within C.E.U.) prolonged immersion) Standard $\leq 3 \text{ m/s} \text{ max} \leq 5 \text{ m/s}$ Displacement speed Displacement force Vibrations 5...2000Hz, Amax =0.75 mm amax. = 20 gShock 50 g, 11ms. Acceleration 200 m/s² max (20g) Tolerance on resistance ± 20% Recommended cursor $< 0.1 \mu A$ current Maximum cursor current 10mA Maximum applicable voltage 60V Electrical isolation >100M Ω at 500V=, 1bar, 2s < 100 μA at 500V~ ,50Hz, 2s,1bar Dielectric strength Dissipation at 40°C (0W at 120°C) Thermal coefficient -200...+ 200 ppm/°C typical of resistance Actual Temperature Coefficient ≤ 5ppm/°C typical of the output voltage -30...+100°C Working temperature Storage temperature -50...+120°C Material for transducer case Anodised aluminium Nylon 66 G 25 Material for pull shaft C45 chrome steel 20µm

DIMENSIONI MECCANICHE



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 Ic $\leq 0.1 \, \mu A$

Brackets with adjustable distance between centers or with M5 screw

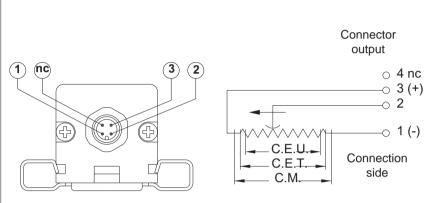
ISO4017-DIN933

ELECTRICAL / MECHANICAL DATA

MODELLO		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. + 71.5				C.E.U. + 72.5			423.5	448.5	474.5	525.5	580.5	681.5	733.5	834.5	986.5			

Note: It is recommended to keep the sliding parts lubrificated, at least every 6 months.

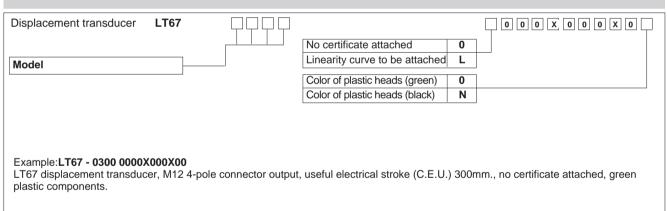
ELECTRICAL CONNECTIONS



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.

ORDER CODE



ACCESSORIES

STANDARD LT mounting kit, 2 brackets, screws	Code PKIT009
A RICHIESTA M12 4-pole axial female connector, IP67-IEC48B clamp for Ø6-Ø8mm cable M12 4-pole 90° radial female connector, IP67 Ball connection joint	Code CON293 CON050 PKIT015

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

