GEFRAN

LT67

RECTILINEAR DISPLACEMENT TRANSDUCER WITH IP67 PROTECTION



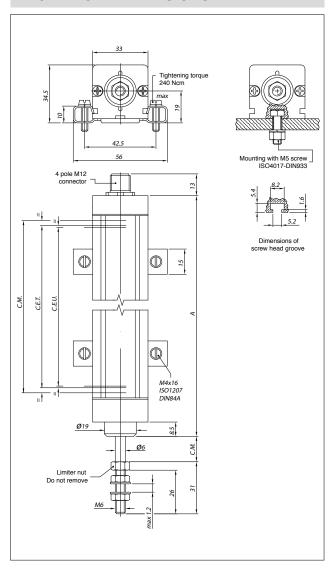
TECHNICAL DATA

Useful electrical stroke (C.E.U.)	from 50 to 1000 mm (for intermediate strokes see table "Electrical / Mechanical Data")					
Independent linearity (within C.E.U.)	± 0,05%					
Resolution	infinita					
Repeatability	0.01mm					
Electrical connection	connettore 4 poli M12					
Protection level	IP67 (utilizzare connettore femmina 4 poli M12 con gradi di protezione IP67 o superiore					
Life (NOT used in prolon- ged immersion)	> 25x10°m percorsi, oppure > 100x10° manovre, dei due il più restrittivo (entro la C.E.U.)					
Displacement speed	Standard ≤ 3 m/s max ≤ 5 m/s					
Displacement force	≤ 20N					
Vibrations	52000Hz, Amax =0,75 mm amax. = 20 g					
Shock	50 g, 11ms.					
Acceleration	200 m/s² max (20g)					
Tolerance on resistance	± 20%					
Recommended cursor current	< 0,1 μΑ					
Maximum cursor current	10mA					
Maximum applicable voltage	60V					
Electrical isolation	>100MΩ a 500V=, 1bar, 2s					
Dielectric strength	< 100 μA a 500V~ ,50Hz, 2s, 1bar					
Dissipation at 40°C (0W at 120°C)	3W					
Actual Temperature Coefficient of the output voltage	≤ 5ppm/°C tipico					
Working temperature	-30+100°C					
Storage temperature	-50+120°C					
Material for transducer case	Alluminio anodizzato Nylon 66 G 25					
Material for pull shaft	Acciaio C45, cromato 20μm					
Mounting	Brackets with adjustable distance between centers or with M5 screw ISO4017-DIN933					

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

MECHANICAL DIMENSIONS



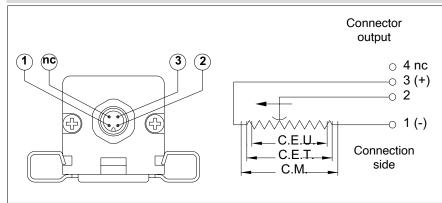
Important: all the data reported in the catalogue linearity, lifetime, temperature coefficient are valid for a sensor utilization as a ratiometric device with a max current across the cursor lc \leq 0.1 μ A

ELECTRICAL / MECHANICAL DATA

MODEL		50	75	100	130	150	175	200	225	275	300	350	375	400	450	500	600	650	750	900	1000*
Useful electric stro- ke (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	1000
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	1016
Resistance (C.E.T.)	kΩ		5								10										
Mechanical stroke (C.M.)	mm			C.E.	.U. + 9			C.E.U. + 10				361	386	412	463	518	619	670	772	924	1026
Case length (A)	mm			C.E.U	J. + 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	1088.5

Note: It is recommended to keep the sliding parts lubrificated, with a lubricant general purpose least every 6 months.

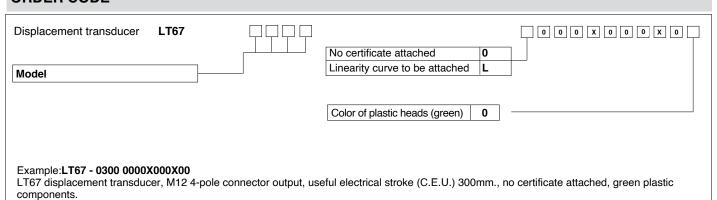
ELECTRICAL CONNECTIONS



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
ON REQUEST 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



^{* =} Only for vertical installations