RECTILINEAR DISPLACEMENT TRANSDUCER



Main features

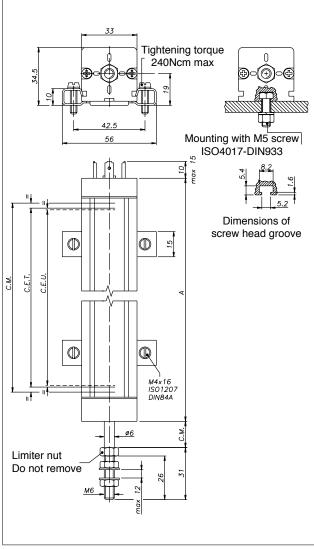
- The transducer has been improved in order to guarantee greater reliability under all conditions
- A sturdier structure makes the LT series even stronger for applications with heavy vibration
- Installation is made simpler by the absence of electrical signal variation in output, outside the Theoretical 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

GEFRAN

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 ≤ 10 m/s					
Protection level	IP60 (IP65 on request)					
Life	>25x10°m strokes, or					
	100x10 ⁶ maneuvers, whichever					
	is less (within C.E.U.)					
Displacement force	≤ 3.5N IP60 version					
Displacement loree	$\leq 25N$ IP65 version					
Vibrations	52000Hz, Amax =0.75 mm					
VIDIATIONS	amax. = 20 g					
Shock	50 g, 11ms.					
Acceleration	200 m/s ² max (20g)					
Tolerance on resistance	$\pm 200 \text{ m/s}^2 \text{ max} (20g)$					
Recommended cursor						
current	<0,1 μA					
Maximu	10mA					
cursor	TOMA					
current	60V					
Maximum applicable voltage						
Electrical isolation	>100MΩ at 500V=, 1bar, 2s					
Dielectric strength 1bar	< 100 µA at 500V~ ,50Hz, 2s,					
Dissipation at 40°C	3W					
(0W at 120°C)						
Thermal coefficient	-200+ 200 ppm/°C typical					
of resistance						
Actual Temperature Coefficient	≤ 5ppm/°C typical					
of the output voltage						
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

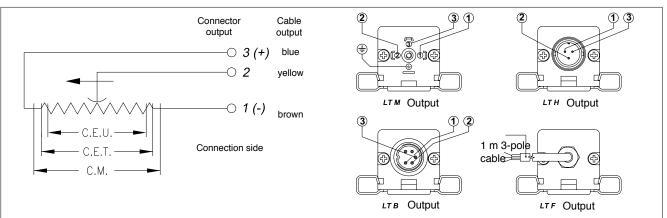


Important: all the data reported in the catalogue linearity, lifetime, temperature coefficient are valid for a sensor utilization as a ratiometric device with a max current across the cursor Ic \leq 0.1 μ A

ELECTRICAL / MECHANICAL DATA

MODEL		50	75	100	130	150	175	200	225	275	300	350	375	400	450	500	600	650	750	900
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	J. + 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	C.E.U	. + 1	0	361	386	412	463	518	619	670	772	924
Case length (A)	mm			C.E.l	J. + 6	3		C	C.E.U	. + 6	4	415	440	466	517	572	673	725	826	978

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

Displacement transducer	LT		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
4-pole connector output DIN43650 ISO4400	М	No certificate atta						
3-pole connector output	н	Cable length: 1 m	m 0					
		Cable length: 2 m	m 2					
5-pole connector output	в	Cable length: 3 m	m 3					
DIN43322		Other lengths on	n request					
3-pole PVC cable output	F	Color of plastic he	eads (green) 0					
3x0.25 1m		Color of plastic he	eads (black) N					
Model		Example:LT - M -	Example:LT - M - 0300 - S 000X000X00					
IP60 version	S		LTdisplacement transducer, 4-pole connector output DIN43650 - ISO					
IP65 version	Р		4400, useful electrical stroke (C.E.U.) 300mm. IP60 protection, no certificate attached, green plastic components.					

ACCESSORIES

STANDARD	Code	
LT mounting kit, 2 brackets, screws	PKIT009	
ON REQUEST	Code	
LTM 4-pole 90° radial female connector DIN43650 IP65 PG9 clamp for ø6-ø8mm cable	CON006	
LTH 3-pole axial female connector IP40 clamp for ø4-ø6mm cable	CON002	
LTB 5-pole axial female connector DIN43322 IP40 clamp for ø4-ø6mm cable	CON011	
LTB 5-pole axial female connector DIN43322IP65 PG7 clamp for ø4-ø6mm cable	CON012	
LTB 5-pole 90° radial female connector DIN43322 IP40 clamp for ø4-ø6mm cable	CON013	
Ball connection joint	PKIT015	

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



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