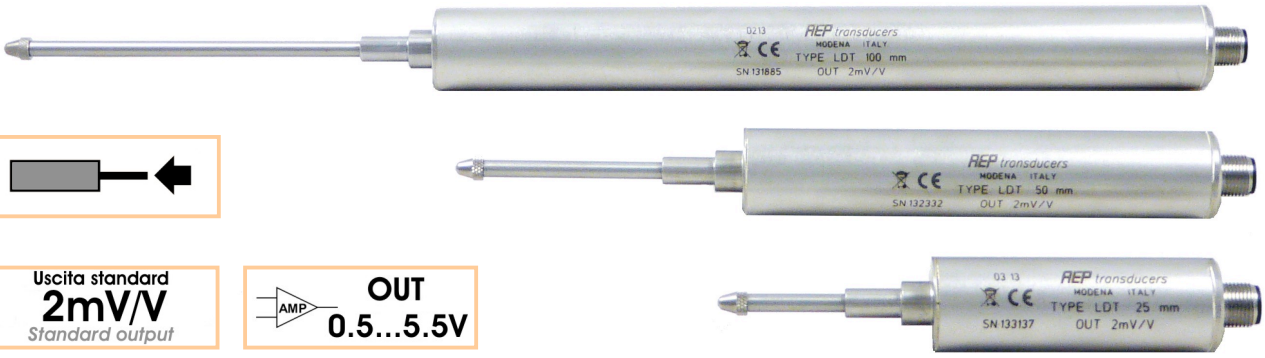
Data Sheet: LDT.700.R7

www.ntt.dk

Displacement transducer

Nordic Transducer LDT



Uscita standard
2mV/V
Standard output

AMP **OUT**
0.5...5.5V

Download on www.aep.it
CE RoHS

LOW COST

Linearità - Isteresi
≤±0.10%
Linearity - Hysteresis

Stabilità a lungo termine
Long term high stability

FACILE APPLICAZIONE
EASY APPLICATION

***STRAIN GAUGE** transducer*

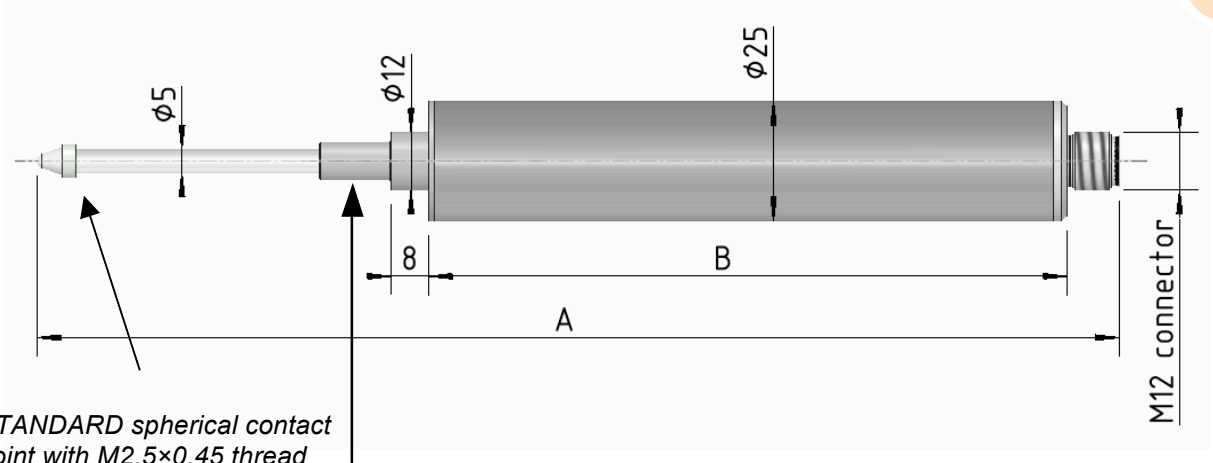
High resolution of measure <1μm

Output (Standard): 2mV/V

Output (Optional): 0.5 – 5.5 Volt

CODE	*Displacement*	A	B
TLDT5MM	5 mm	120	76
TLDT10MM	10 mm	125	76
TLDT25MM	25 mm	140	76
TLDT50MM	50 mm	223	134
TLDT100MM	100 mm	373	240
TLDT200MM	200 mm	675	434

Dimensions [mm]



STANDARD spherical contact point with M2.5×0.45 thread

STANDARD coupling for a Ø8mm universal comparator holder support

Technical Data

NOMINAL DISPLACEMENT	5 , 10, 25, 50, 100, 200 mm
NOMINAL SENSITIVITY *SENSIVITY TOLERANCE*	2mV/V ≤ ±0.1% F.S.
LINEARITY	≤ ± 0.10 % F.S.
TEMPERATURE EFFECT (1 °C) *a) on zero* *b) on sensitivity*	 ≤ ±0.010% ≤ ±0.005%
BRIDGE RESISTANCE *INSULATION RESISTANCE* *ZERO BALANCE* *RECOMMENDED SUPPLY VOLTAGE* *NOMINAL SUPPLY VOLTAGE RANGE* *MAXIMUM SUPPLY VOLTAGE*	350 Ω > 5 GΩ ≤ ±0.5 % F.S 10 V 1-15 V 18 V
REFERENCE TEMPERATURE *WORKING TEMPERATURE* *STORAGE TEMPERATURE*	+23°C -10/+70°C -20/+80°C
WEIGHT *SPRING FORCE*	~ 0.150 to ~0.300 kg from 2 to 4 N
PROTECTION CLASS (EN 60529) *MATERIAL* *ELECTRICAL CONNECTION*	IP40 Inox / *Stainless Steel* M12 4 poles male connector

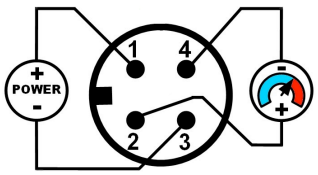
Optional

NOMINAL SENSITIVITY NOMINAL POWER SUPPLY *MAX. POWER SUPPLY* *MAX. ABSORPTION* *LOADING RESISTANCE* *INSULATION RESISTANCE* *ZERO BALANCE* *RESPONSE FREQUENCY*	**0.5 – 5.5 Vdc** 12-24V 28V 20mA min. 3KΩ >2 GΩ ≤ ± 0.5% *150 Hz*
Shield cable PVC with M12 connector molded 4 poles.	3 m

Electrical Connections

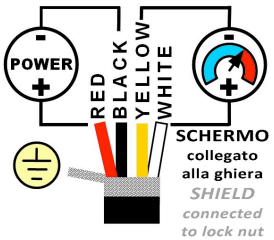
STANDARD Connector M12

2mV/V



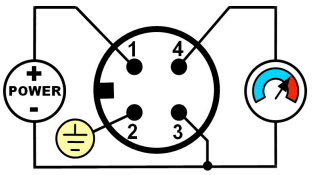
Cable + molded M12 (option)

2mV/V



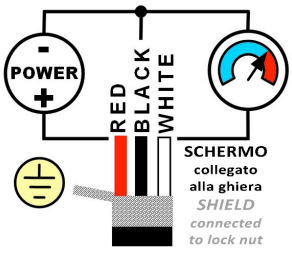
Connector M12 (option)

5Vdc



Cable + molded M12 (option)

5Vdc



Nordic Transducer Tel:+45 98581444 Fax:+ 45 98581866 E-mail: ntt@ntt.dk web: www.ntt.dk

In order to improve the technical performances of the product, the company reserves the right to make any change without notice.