

LINEAR DISPLACEMENT TRANSDUCERS PTs - series

Linear displacement transducers series PTs, are based on differential transformer principles. They are equipped with moveable core which has to be attached to a moving object. They are used for static and dynamic measurements of displacement, thickness and bending of machines and constructions fe: micro-robots, breath-analysers and so on.

FEATURES

- Small dimensions
- Harsh environment applications
- High accuracy
- Very high repeatability

CONSTRUCTIONS

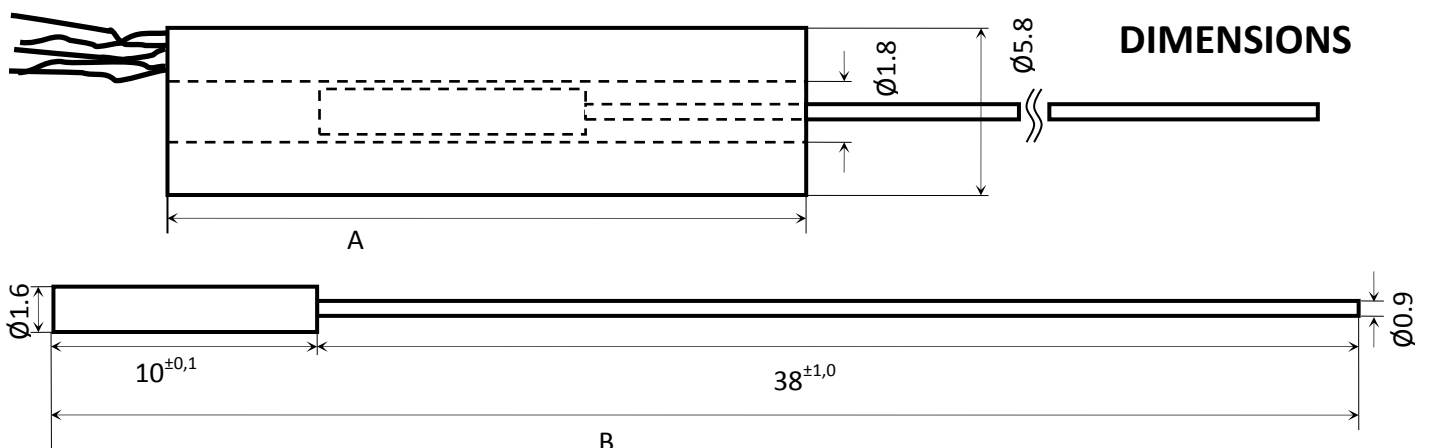
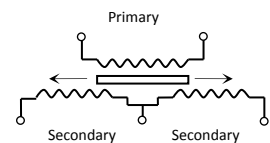
Transducers series PTs are based on a differential transformer principle. There is a magnetic core inside the transducer's coils. Displacement of the core results in a change of the transducer's output signal. The core has to be in contact with the moving target.

Technical data

Type	PTs5	Under construction.
Measure range [mm]	$\pm 2,5$	
A [mm]	$22,5^{+0,5}$	
B [mm]	$48^{+1,1}$	

1	Power supply	$2V_{rms}$, $5 \div 15$ mA, 5 kHz
2	Output signal	$1V_{rms} \pm 10\%$
3	Load resistance.	$R \geq 50$ k Ω
4	Insulation resistance	≥ 20 M Ω
5	Linear accuracy	$\leq 2,5\%$
6	Working temperature	$-20 \div + 80^{\circ}C$;
7	Temperature accuracy	0,02% / $^{\circ}C$
8	Electrical connector	Wires
9	Vibration proofness	20 g to 2 kHz
10	Shock proofness	100 g, 11 ms
11	Enclosure material	steel 1H18N9T or AISI 304

SCHEMATIC DIAGRAM



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