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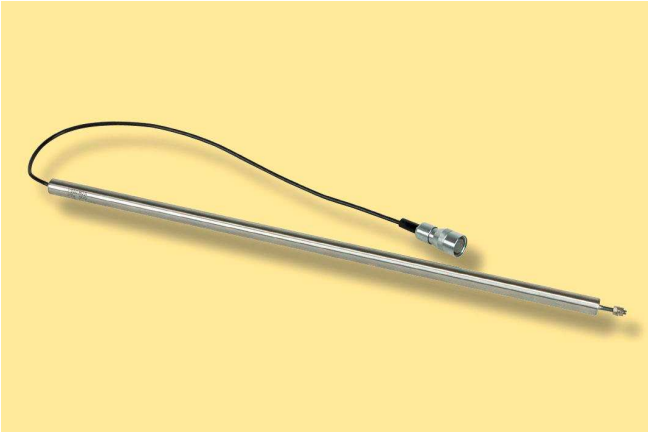


LINEAR VARIABLE DISPLACEMENT TRANSDUCERS Series PTx

APPLICATION

The PTx series are AC/AC LVDTs transducers which is the miniature version of PJx series transducers. They can be used in static and dynamic measurements of displacements, materials length and thickness change, construction and machine elements deflections.

CHARACTERISTICS

- Unguided movable magnetic core
- Small dimensions
- High stability and accuracy
- Very high repeatability and reliability

PRINCIPLE OF OPERATION

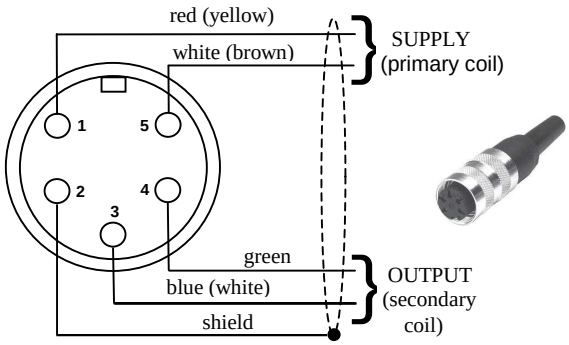
The LVDT is a cylindrical electromechanical device consisting of one primary winding, two secondary windings and a moveable core . When the primary is powered and the core moved, the output from the secondaries is proportional to and in phase with the core movement. The construction gives a possibility to insert the core connecting rod from the any side of the transducer.

SPECIFICATIONS

Transducer Type	PTx6	PTx10	PTx20	PTx30	PTx50	PTx100	PTx200	PTx300
Measurement Ganges [mm]	± 3	± 5	± 10	± 15	± 25	± 50	± 100	± 150
A [mm]	58	72	82	102	132	212	342	472
B [mm]	100	100	140	150	170	270	380	490

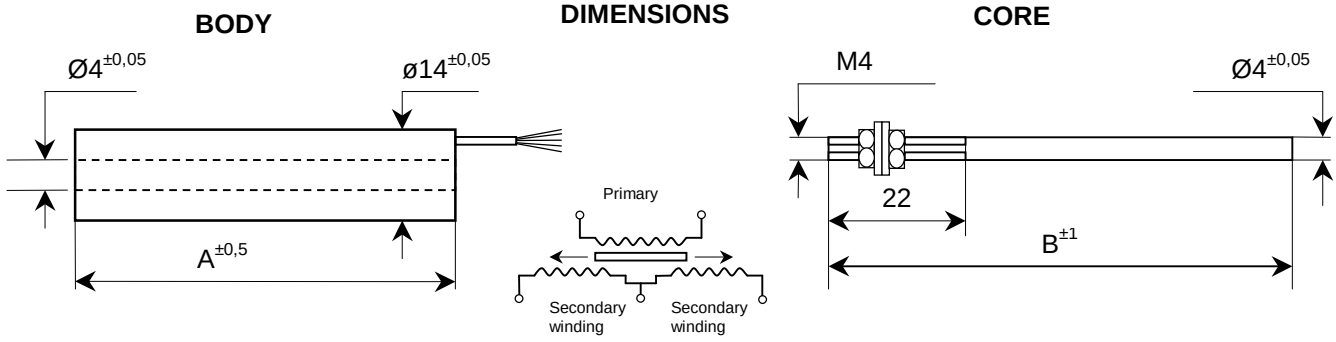
1	Power Supply	2Vrms, 5÷15 mA, 5 kHz
2	Output Signal	1 Vrms ±10% [1]
3	Load Impedance	R ≥ 51 kΩ
4	Insulation Resistance	≥ 20 MΩ
5	Linearity [%] MR	≤0,5; ≤0,25; ≤0,1
6	Operating Temp. [°C]	-20÷+80 [2] ; -20÷+120; -20÷+200
7	Temp. Error	0,02% / °C
8	Electrical Connection	cable ½ m with no connector
9	Vibration Tolerance	20 g do 2 kHz
10	Shock Survival	100 g, 11 ms
11	Housing Material	steel 1H18N9T lub AISI 304

[1] for PTx6 0,5Vrms ±10% [2] for mobile application -5÷+70^{0}C



Connector C091-T3361-001 Amphenol (option).
Connection for four-wire cable

DIMENSIONS



The continual development of our products causes a necessity of changes introduction which can not be published in this document.