



CHARACTERISTIC

- Return spring
- High stability and accuracy
- Very high repeatability
- High mechanical durability

LINEAR VARIABLE DISPLACEMENT TRANSDUCERS PSx series

PSx series is a part of AC/AC group with a return spring. This group is designed to measure to be used in static and dynamic measurements like: displacements, materials length and thickness change, construction and machine elements deflections.

CONSTRUCTION

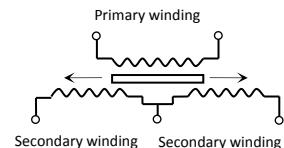
This series is a cylindrical electromechanical device consisting of one primary winding, two secondary windings and a moveable core. When the primary is powered and the core moved, the output signal is proportional to and in phase with the core movement.

TECHNICAL DATA

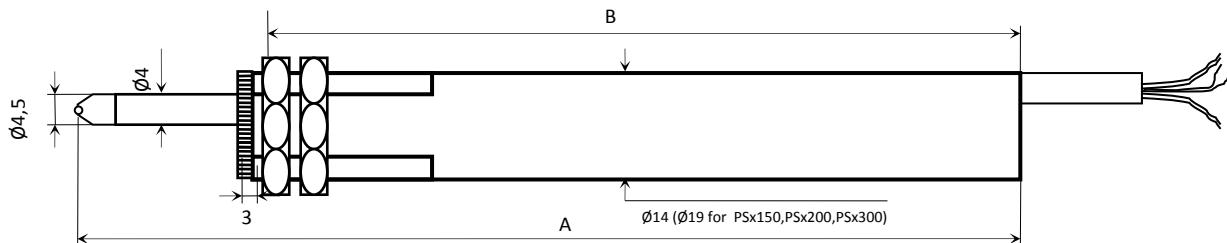
Type	PSx1	PSx2	PSx6	PSx10	PSx20	PSx30	PSx50	PSx100	PSx150	PSx200
Measure range [mm]	$\pm 0,5$	$\pm 1,0$	$\pm 3,0$	$\pm 5,0$	$\pm 10,0$	$\pm 15,0$	$\pm 25,0$	$\pm 50,0$	$\pm 75,0$	± 1000
A [mm] (electrical zero)	82	89	100	147	182	216	278	451	585	752
B [mm]	51	56	73	104	122	155	212	352	482	614

1	Power supply	2V _{rms} , 5÷15 mA, 5 kHz
2	Output signal [V _{rms}]	<ul style="list-style-type: none"> • 1±10% (0,2 ±10% for PSx1) • 0,5±10% for PSx2 and PSx6)
3	Loading resistance	R ≥50 kΩ
4	Isolataion resistance	≥20 MΩ
5	Accuracy [% MR]	<ul style="list-style-type: none"> • ≤0,5 • ≤0,25 • ≤0,1 (for MR>10mm)
6	Working temperature [°C]	<ul style="list-style-type: none"> • -20÷+ 80 • -20÷+ 120 • -20÷+ 200
7	Temperature accuracy	0,02% / °C
8	Electrical connection	<ul style="list-style-type: none"> • cable PVC ½ m no connector (white and red primary blue and green secondary) • case connector (CONEC SAL-12-FKD4-0,05-12)
9	Vibration	20 g do 2 kHz
10	Surge	100 g, 11 ms
11	Case material	AISI 304

SCHEMATIC DIAGRAM



DIMENSIONS ¹⁾



¹⁾ for PSx150, PSx200 and PSx300 there is no thread

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