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LINEAR VARIABLE DISPLACEMENT TRANSDUCERS Series PIz

APPLICATIONS

The transducers PIz series, are DC/DC LVDTs designed for displacement, length and thickness measurements in industrial and R&D multi-channel data acquisition devices or for use as feedback sensors in machining and process applications.

CHARACTERISTICS

- Unguided core
- High repeatability and reliability
- DC power supply
- High stability and accuracy

PRINCIPLE OF OPERATION

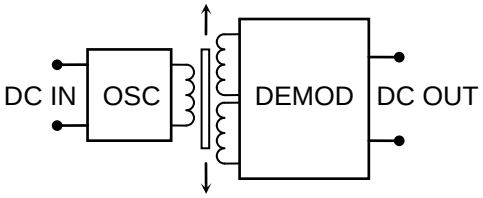
The LVDT is a cylindrical electromechanical device consisting of one primary winding, two secondary windings and a moveable core. When the primary is powered and the core moved, the output from the secondaries is proportional to and in phase with the core movement

SPECIFICATIONS

PIz transmitter	PIz20	PIz50	PIz100	PIz150	PIz300
Measurement range [mm]	±10	±25	±50	±75	±150
A [mm]	109	160	217	267	510
B [mm]	215	250	300	547	512

1	Power supply	15V options 12V÷24V
2	Current supply	30÷35mA
3	Output signal	±5V±10%, PIz100, PIz150: ±5V ±10V ±10%,
4	Output impedance	5600 Ω
5	Load impedance	≥10kΩ
6	Frequency range	3dB,50Hz
7	Isolation resistance	≥20 MΩ
8	Linearity [% ZP]	≤0,5; ≤0,25
9	Temperature range	-20...+80°C
10	Pulsation	0,5% FSO
11	Electrical connection	Cable or cable with connector
12	Vibration immunity	20g ÷ 2kHz
13	Surge immunity	100g, 11ms
14	Enclosure material	Steel 1H18N9T or AISI 304

BLOCK DIAGRAM



DIMENSIONS