



### LINEAR VARIABLE DISPLACEMENT TRANSDUCERS – PLx series

These transducers belong to AC/AC group (no electronics inside). They are used to measure placement, displacement, movement, length, particularly position of water dam gates.

#### CHARAKTERISTIC

- Wolny trzpień
- Praca w trudnych warunkach środowiskowych
- Duże dokładności pomiarowe
- Bardzo duża niezawodność

#### CONSTRUCTION

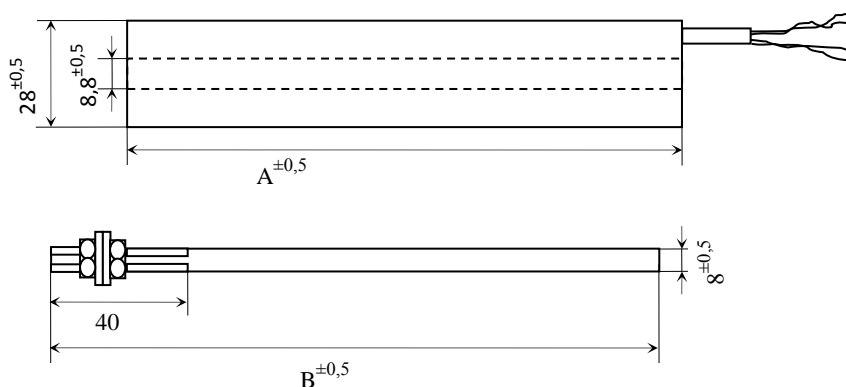
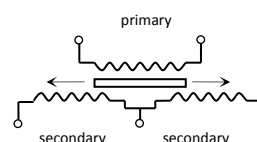
The LVDT is a cylindrical electromechanical device consisting of one primary winding, two secondary windings and a moveable core. When the primary is powered and the core moved, the output from the secondaries is proportional to and in phase with the

#### TECHNICAL DATA

| Typ przetwornika      | PLx500 | PLx800 | PLx1000 | PLx1500 | PLx2000 | PLx3000 |
|-----------------------|--------|--------|---------|---------|---------|---------|
| Zakres pomiarowy [mm] | ±250   | ±400   | ±500    | ±750    | ±1000   | ±1500   |
| A [mm]                | 720    | 1100   | 1360    | 1950    | 2450    |         |
| B [mm]                | 820    | 1200   | 1460    | 2050    | 2550    |         |

|    |                        |  |
|----|------------------------|--|
| 1  | Power supply           | 2Vrms, 5÷25 mA, 1 kHz  |
| 2  | Output signal          | 2 Vrms ±10%  |
| 3  | Loading resistance     | $R \geq 51 \text{ k}\Omega$  |
| 4  | Isolation resistance   | $\geq 20 \text{ M}\Omega$  |
| 5  | Accuracy [% MR]        | <ul style="list-style-type: none"> <li>• <math>\leq 0,5</math></li> <li>• <math>\leq 0,25</math></li> <li>• <math>\leq 0,1</math></li> </ul> |
| 6  | Temperature range [°C] | <ul style="list-style-type: none"> <li>• <math>-20 \div + 80</math></li> <li>• <math>-20 \div 120</math></li> </ul>                          |
| 7  | Temperature accuracy   | 0,02% / °C   |
| 8  | Electrical connection  | PVC cable ½ m no connector   |
| 9  | Vibration              | 20 g do 2 kHz  |
| 10 | Surge                  | 100 g, 11 ms   |
| 11 | Case material          | AISI 316   |

#### SCHEMAT



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