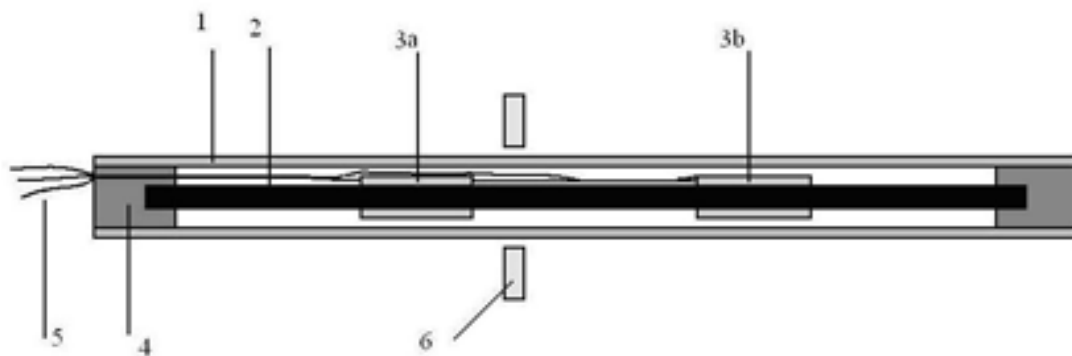
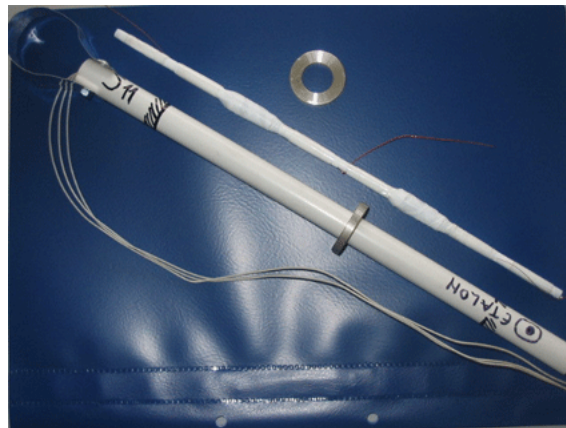


Displacement sensor

DESCRIPTION:

The sensor is made from a cylindrical case (1) with diameter between 8 - 15 mm and length 200-300mm, from insulating material of PVC type, necessary for external factors protection (humidity, accidental mechanical pressure), having a ferromagnetic core (2) with a length of 180-280 and diameter between 2 -4 mm, on which are two windings (3a ,3b) with ratio 1:1, distributed symmetrical on core (2) and each on a distance which do not exceed 1/5 from core length (2), with two cylindrical supporting and sealing covers (4) fixing by adhesive process in ends of cylindrical case (1) and connections (5); on the external cylindrical case (1) slides cursor (6) having a coaxial cylinder geometry and its translation modifies the electrical voltage at secondary winding outlet.



Displacement parameters:

0.5 mm 50 mm;

Resolution: 0.2 mm;

Sensitivity: 0.5 mm/mV.

Electrical parameters:

$F = 1 \text{ kHz}$;

$L = 5.2 \text{ mH}$;

$R = 27 \text{ Ohm}$;

$\Delta u_e = 15 \text{ mV} \dots 150 \text{ mV}$ for $U_{ref} = 1.65 \text{ V}$;

Overall size: 16 x 300 mm; <0.5 Kg.

APPLICATIONS:

- Sliding land.
- Civil buildings: control of building stability.