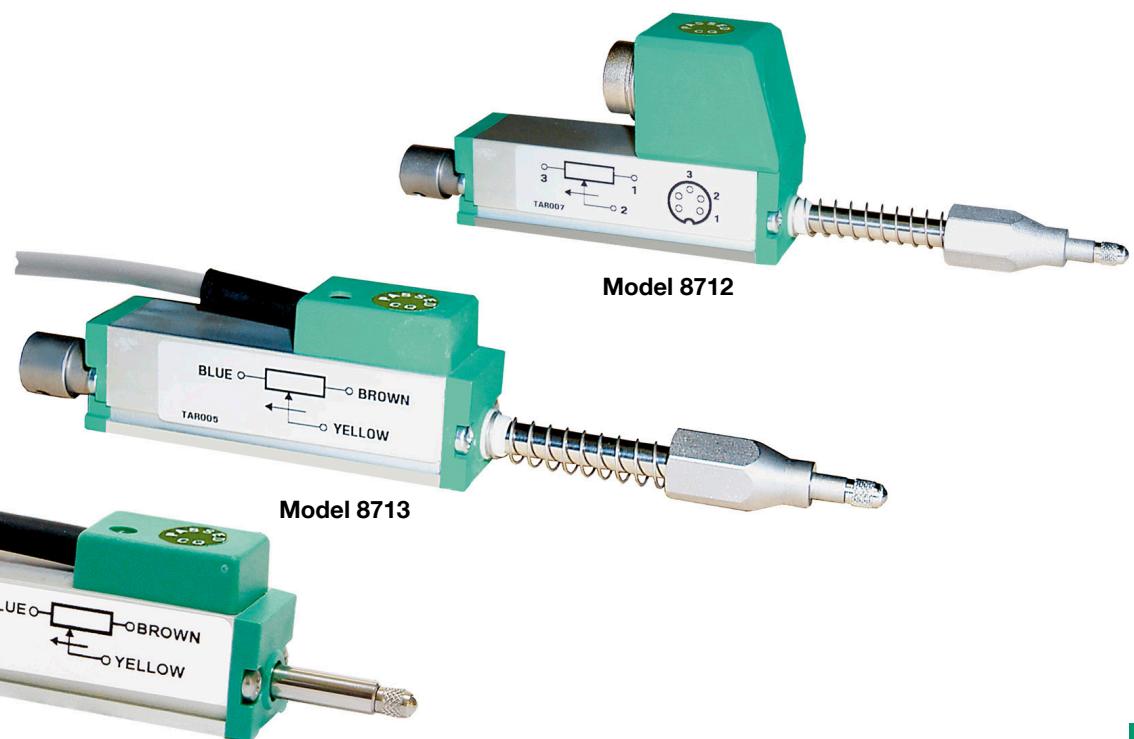


# Potentiometric Displacement Sensors

Models 8712, 8713

Code: 8712 EN  
Delivery: ex stock  
Warranty: 24 months



Model 8713-5xxx-V302  
Internal spring

- Measurement ranges: 0 ... 10 mm to 0 ... 150 mm
- Non-linearity from 0.05 % F.S.
- Durability  $10^8$  operations
- Resolution 0.01 mm
- Follower roll on request
- Optional with internal spring

8712 EN

## Application

These displacement sensors are potentiometric displacement sensors used for direct measurement, testing and monitoring of mechanical displacements. The spring-loaded control rod eliminates the need of coupling with the measurement object.

A prerequisite for a very long life duration of the devices is a parallel alignment of the motion direction of the measurement object and the rod.

Areas of application are:

Displacement on

- Electromagnets
- Hydraulic cylinders
- Switches and buttons

Measurements of

- Deformation
- Bending
- Press-fits
- Feed strokes

## Description

Due to the technology employed in potentiometric displacement sensors, they always operate with a sliding contact system. Special processes are applied to give the resistance tracks low friction, low tendency to stick/slip, resistance to abrasion and a long-term stability.

The rods are guided in long-life, low friction sliding bearings with close tolerances which provide high durability and measuring quality. The pre-stressed spring presses the sensor tip against the measurement object. This spring is double-guided and disappears in the probe head, if the rod is in its end position.

The probe tip consists of a ball made of stainless steel. The bore at rod end serves for coupling retraction units.

The rod is protected against twist for measurement ranges up to 50 mm. The probe tip (hexagonal) must not be turned by any tool, otherwise its anti-twist protection will be destroyed.



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