

# Potentiometric Displacement Sensor

## Model 8719

Code:	8719 EN
Delivery:	ex stock / 5 weeks
Warranty:	24 months



**NEW** Option Protection Class IP67

- Measuring ranges: between 0 ... 50 mm and 0 ... 900 mm
- Non-linearity  $\pm 0.05\%$  F.S.
- Resolution: 0.01 mm
- Durability: Up to  $100 \times 10^6$  movements
- Adjustment speed up to 10 m/s
- Plug or cable connection
- Optional protection classes IP65 and IP67

### Application

Due to its high resolution also when measuring long distances, linear displacement measurements up to 900 mm can be carried out. Conversions between rotatory and translation movements through ball screws, wire or cord connections and so on are not necessary for direct displacement measurement.

Application fields include

- ▶ Electromagnets
- ▶ Deformations - bending
- ▶ Pneumatic cylinders
- ▶ Length tolerances
- ▶ Press-insertions (longitudinal press-fits)
- ▶ Feed strokes
- ▶ Machine hubs
- ▶ Punch, knee lever or extruder distances
- ▶ Hydraulic cylinders

### 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 long-term stability.

The rod is guided in a low-play floating frontal bearing. This absorbs small angular and parallel displacements. The guide lug and slide block have particularly tight tolerances, in order to ensure reliable slider contact.

A ball joint coupling (see accessories) at the end of the sliding shaft minimizes axial errors between the sensor and the equipment.

