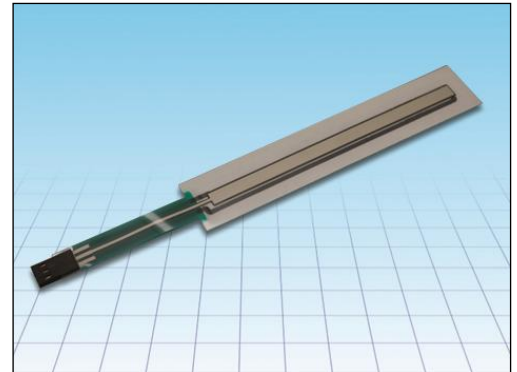


The AFP Foil Potentiometers are used as voltage divider and consist of several layers which are separated by a so-called spacer. The actuation can be effected either by hand or by a mechanical wiper. With the use of an inserted iron layer the actuation can also be performed by a permanent magnet (contactless).

There are various construction types with different materials available, for example instead of a PET basicfoil also an FR4 imprinted circuit board can be used. This offers the possibility to equip the components and the complete assembly with the potentiometer on the circuit board.

Linear foil potentiometers are available in standard lengths of 50 ... 500 mm, customer specific versions can be made in diverse varieties. Circular foil potentiometers are also possible with diameters as from approx. 40 mm as well as bent shapes in customized versions. Thanks to their flat design of 0,5 mm ... 2,1 mm the foil potentiometers are an ideal and cost-effective solution for applications with limited installation space.



Technical Data

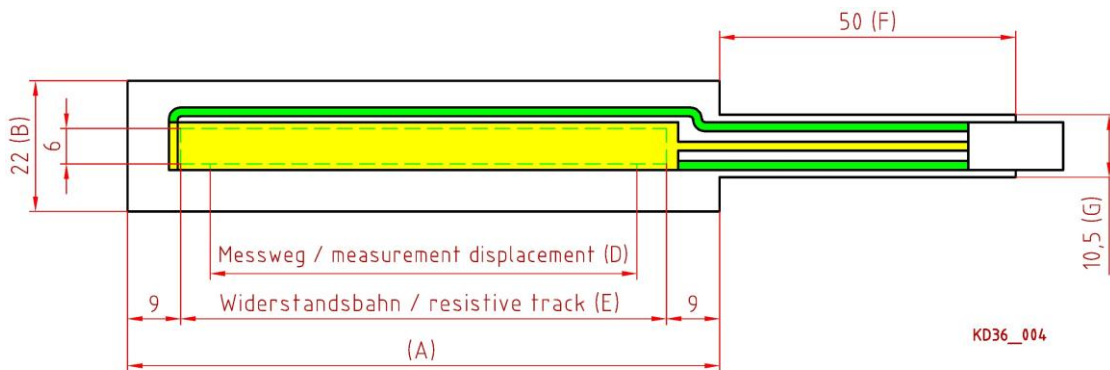
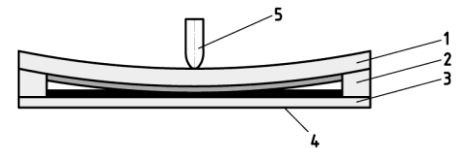
- 1.1 Resistance standard..... : 2,5 K-Ohm per 100 mm
- 1.2 Resistance curve..... : linear
- 1.3 Operating temperature..... : max. 85 °C possible
- 1.4 Lifetime..... : max. 10x10⁶ cycles
- 1.5 Housing protection class..... : max. IP65

Specifications

The AFP is a conductive plastic membrane potentiometer. By using pressure on the slider a contact is established between the upper and lower elements and a consequential analogue voltage will be tapped by the slider.

Structure

- 1 Collector foil as wiper tap or iron layer for magnetic version
- 2 Spacer
- 3 Basic foil or printed board with potentiometer resistance
- 4 Adhesive foil
- 5 Wiper



Applications:

- Linear actuators
- Control valves
- Automotive: airbag systems, seating position
- Hospital beds
- Input/ Set-Point Devices

Construction:

Data transfer of customer application is possible.
 File formats: step, iam, idw, dxf