

SENSOFOIL® Membrane Potentiometer

SENSOFOIL® Membrane Potentiometers work similar to any other linear or rotary potentiometer. SENSOFOIL® is basically a voltage divider and produces an electrical signal depending on where the contact is made.

Several layers of material are divided by spacers and once a contact is made, these layers connect, creating an electrical signal.

This signal can either be produced by mechanical force (i.e. with a wiper or by hand) or by a magnetic force (contactless).

Installation and Testing Guide

In regards to their function as potentiometer, SENSOFOIL® membrane potentiometers by Hoffmann + Krippner do not differ from traditional potentiometers. Therefore, the equivalent circuit diagram can be displayed in the same way as with conventional potentiometers.

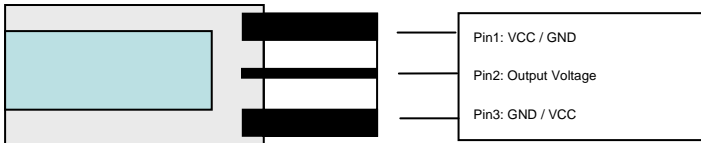
This image shows the membrane potentiometer layout. It consists of a basic membrane with potentiometer resistance and a collector membrane as wiper tap. (The remaining two membranes serve as fixation and contacting between basic and collector membrane.)

Basic and collector membrane are combined into a jack connector.

The two outer contacts of the basic membrane and the jack connector must be connected as positive and negative contact respectively (Pin 1, 3). A voltage reversal is not critical.

The tap of the potentiometer is being connected to the collector membrane's and the jack connector's middle contact (Pin 3 for rotary 360 degree potentiometers, Pin 2 for all other potentiometers).

PIN ALLOCATION FOR ALL LINEAR AND NON-360-DEGREE ROTARY SENSOFOIL®



PIN ALLOCATION FOR SENSOFOIL® ROTARY 360 DEGREE (4 pins)

