

DATA SHEET

Stepless sensor controller

An innovative idea for operation with screen-controlled devices and machines: the analogue Sensofoil sensor controller is positioned at the edge of the screen. A cursor can be steplessly controlled along an elongated controller surface positioned either at the side or at the bottom of the screen edge. It is then confirmed with one click.



Stepless cursor control directly on the screen has only been possible with touch screens up to now, and was always a problem with dirty or greasy fingers. Sensofoil sensor controllers present a clean alternative, in particular for rough industrial conditions, because the screen surface remains clean and untouched.

As to the technical details; this device is a potentiometric proximity sensor. A gentle touch is sufficient for the cursor position to be displayed with high accuracy. Slightly harder pressure generates a click function via a further switching threshold. The electrical signals are easy to evaluate for convenient cursor control. By using several Sensofoil sensor controllers (e.g. at the bottom, right and left of the screen), operation is also made convenient for left-handed personnel.

Features

- Stepless sensor controller at screen edge allows intuitive operation
- The screen remains clean because the controllers are operated at its edge
- Simple navigation even in complicated menu structures
- Error-free operation, even in stress situations
- Mature technology, already used extensively in medical technology
- Precise evaluation thanks to analogue technology
- Well laid-out technology ensures clarity
- Can be integrated into membrane keyboards or device front panels
- Exceptional price-performance ratio

Technical data

■ Actuation force	0.6 to 1.5 N for position signal 2.5 to 3.5 N for confirmation signal
■ Actuating path	0.6 to 1.5 N for position signal 2.5 to 3.5 N for confirmation signal
■ Length of individual sensor	Customer-tailored
■ Output signal	Analogue for position sensor, digital for confirmation signal
■ Resolution	Nearly infinite, dependent on the sensor length
■ Linearity	Approx. 2%
■ Temperature range	-20 °C to +70 °C operating temperature -30 °C to +70 °C storage temperature
■ Life cycle	> 1 million switching cycles per position

Sensofoil sensor controllers are designed as touch-sensitive potentiometric proximity sensors. Slight pressure on the foil membrane surface is sufficient to move a cursor. Once the correct position has been reached, simply confirm by pressing slightly harder. It's that simple!

Cursor controls, speed settings, traverse path limitation, speed regulation - all of these can be quickly and efficiently adjusted using the sensor controller. Steplessly adjustable from 0 to 100 via controller pressure.

None of the features in any technical data are guaranteed, but may deviate dependent on customer-specific design.