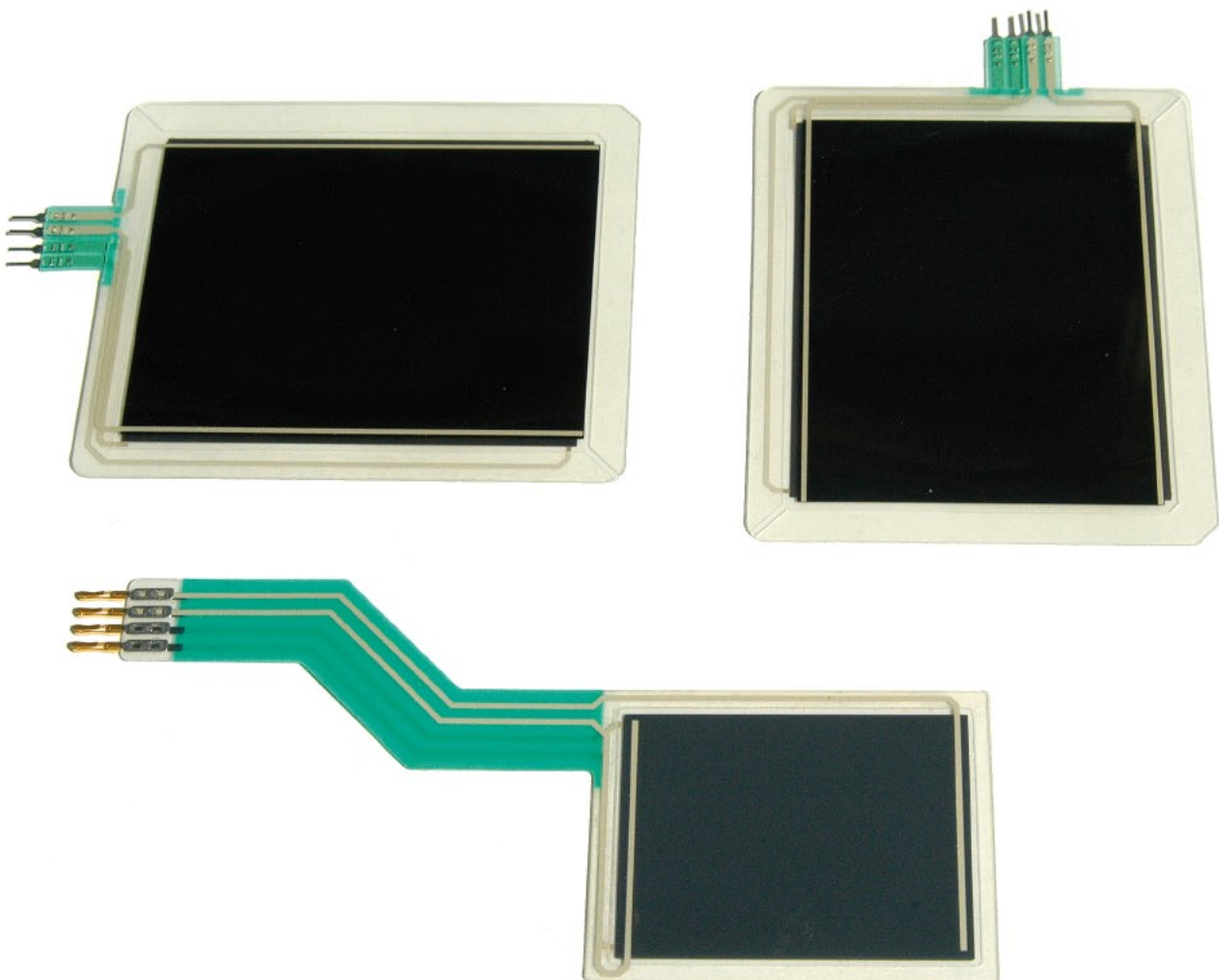


**TECHNICAL DATA**

**SENSOTOUCH® Resistive sensor controller**

Innovative applications for freely programmable sensors

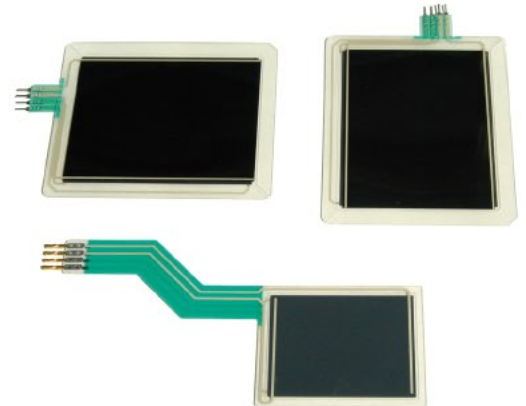


## TECHNICAL DATA

# SENSOTOUCH® Sensor controller

### Features

- Extremely flat and flexible sensor controller
- Freely programmable, resistive input area
- Customized design: rectangular, round or oval
- IP65 sealed
- Lifecycle: over 1 million operations



### Electrical Specifications

#### Standard Values

■ Resistance	2,5kΩ per 100 mm <sup>2</sup> area
■ Resistance Range	± 30 %
■ Independent linearity	± 2 %
■ Repeat accuracy	depending on the operation by finger

### Mechanical Specifications

#### Standard Values

■ Lifecycle mechanical activity <sup>(2)</sup>	> 1 Million
■ Height	approx. 0.5 mm
■ Minimum Size	15 x 15 mm
■ Maximum Size	400 x 400 mm
■ Wiper force	Minimum 1 N
■ Adhesive foil	Duplo 360

### Environmental Specifications

#### Standard Values

■ Operating temperature	-25° C to +55° C
■ IP rating <sup>(1)</sup>	IP 65

### Connector

#### Standard Connector

■ Connector	4-pole jack connector or crimp connection
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<sup>(1)</sup> Depending on design

<sup>(2)</sup> The life cycle and accuracy are depending on the operational purpose

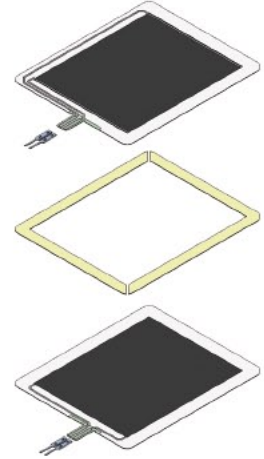
<sup>(3)</sup> Design and application have influence on the temperature range

## PRODUCT DESCRIPTION

# SENSOTOUCH® Resistive sensor controller

### Features

- Intuitive operation through stepless sensor controller
- Resistive input field
- No contamination of the surface, perfect for industrial environments
- Any shape can be realised, no matter if rectangular, round or oval
- Precise evaluation of the input signal
- Can be integrated into membrane switches or front panels
- Proven technology, in use within thousands of products
- Convincing price-performance ratio



Hoffmann + Krippner's SENSOTOUCH is a freely controllable and programmable resistive field with a variety of different applications. SENSOTOUCH consists of two resistance sheets that are imprinted perpendicular to one another. Through use of a special resistance paste, the third dimension (Z-Level) can also be utilised.

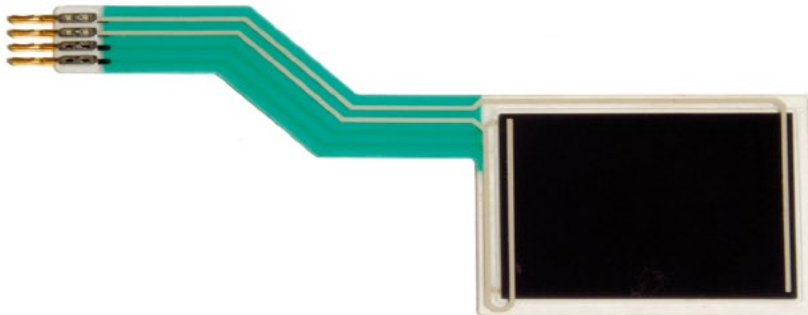
This innovative technology is also available as a hand-operated membrane potentiometer with a digital signal ("Set-function") which can be activated through a slightly increased operating force.

Regarding shape, area and design, SENSOTOUCH offers completely new options to the product designer, as not only square, but also round, oval or even triangular input areas can be realised. This enables whole new applications that were not possible before.

Individually printable surfaces also maximise flexibility as well as individuality for customer-specific use.

The minimum size is determined by the operating device, which in this case is usually the fingertip. Therefore, we recommend a minimum size of 15 mm x 15 mm while the maximum size is limited to 400 mm x 400 mm. The form can be arbitrary and the design can be completely customized. **SENSOTOUCH® therefore offers advantages for:**

- Single-hand operations
- Frequently changing layouts
- Very large key areas
- Very tight key pitches





## TECHNICAL INNOVATION AT THE HIGHEST LEVEL

Hoffmann + Krippner is headquartered in Germany and has offices around the world including the United States. We have a work force of over 200 and develop and produce innovative input solutions for customers in the most diverse sectors, ranging from the electronics industry, medical technology, engineering and aviation to military technology.

We are pioneers in the membrane keyboard technology and are a market leader in complex input systems. Innovation and high quality have formed our basic philosophy since the company was established in 1972.

As a medium-sized and family-owned second-generation-company, we produce exclusively in Germany. Innovative product development and the extensive know-how of our employees allow us to develop and produce comprehensive input device systems, including housing, electronics and software for a wide range of clients.

Our strengths benefit our customers through a broad range of innovative top-level engineering. Our long-standing expertise as a leading manufacturer of customized input devices and keyboards in Europe results in high-quality solutions for our customers, world-wide.

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