

Projected Capacitive Touchscreens (PCAP)

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DANIELSON

- Multi-touch • High optical transparency and visibility
- Durability • Low maintenance • No recalibration
- Easy to clean • Requires low activation force

Projected Capacitive Touchscreens (PCAP)

The PCAP technology from Danielson enables a touch to be sensed through a protective layer in front of a display, allowing touch screens to be installed behind glass covers or vandal resistant glass.

PCAP from Danielson consists of a customized outer glass layer with a specialized sensor and a controller chip.

Danielson designs the solution to meet your requirements. Danielson can not only develop the complete system to resist scratches, impacts, vandalism and dusty environments, but also to resist harsh cleaning fluids. The solid state touch screen and controller provide high levels of reliability and longer life expectancy. This results in a drift free response and a low maintenance unit that requires no recalibration.

Benefits PCAP

- Multi-touch
- High optical transparency and visibility
- Durability
- Low maintenance
- No recalibration
- Easy to clean
- Requires low activation force

Cover lens options

- Polyester
- Glass
- Polycarbonate

PCAP controller

The interface between a Danielson PCAP touch sensor and your application is done by the PCAP controller. This controller continually scans and monitors the capacitance of the electrodes. When your finger touches the surface of the cover it increases the capacity of the underlying electrode. By using complex algorithms the controller can determine the exact location of your touch.

Specialists at Danielson will adapt the controller software settings for your application to assure a perfect execution of your total solution. The controller communicates with your PC system directly through USB interfacing, offering a superior sensitivity, accuracy and user experience. The touch panel driver can fully replace the mouse and supports operation systems like Windows, Linux, Mac and QNX.

Examples of applications PCAP

- Medical: Dialysis equipment, imaging equipment etc
- Control & Drives: Roboting milking systems, laboratory process systems etc
- Other through-glass applications

High-level specifications PCAP

- Glass cover
- Multi-touch
- Different cover lens sizes
- Complete Danielson housing range possible
- Fully customized cover lens print
- Support for different operating systems

You will find more information in the Technical Specifications Sheet for PCAP.

Optical Bonding and PCAP

Optical bonding is the use of an optical-grade adhesive to glue a glass to the top surface of a display. This method from Danielson eliminates the air gap between the cover glass and the display. The main purpose of optical bonding is to increase the display's contrast ratio by reducing the amount of reflected ambient light. Optical Bonding and PCAP are a very effective combination.



Danielson

Danielson is a leading manufacturer of customer specific Man Machine Interfaces. In the over 70 years of experience Danielson has grown into The European Touch Screen Specialist. Danielson has a long track record and proven experience in managing medium to large OEM projects with long term roll-outs. Danielson greatly values good cooperation with customers, from engineering to delivery and after sales, resulting in the best product for our customers.

Danielson has an extensive and well established global supply chain network to obtain best price/value components, with the ability to leverage cost advantages. Danielson is an ISO-9001 and ISO-14001 quality certified partner, providing a comprehensive manufacturing management controls system.

Danielson is best recognized for:

- Customers Orientation
- Skilled Advice
- Engineering Knowledge

- Innovative Solutions
- High Quality
- Fast Prototyping
- Customization Expertise

If you are looking for an MMI-partner to shorten your time into the market, get a first class product and enjoy excellent support & service, contact your local Danielson Sales Engineer or visit our website www.danielson europe.com.