

Sensor solutions

Human Machine Interface Technologies



Trusted Advisor

INTERLINK
ELECTRONICS®



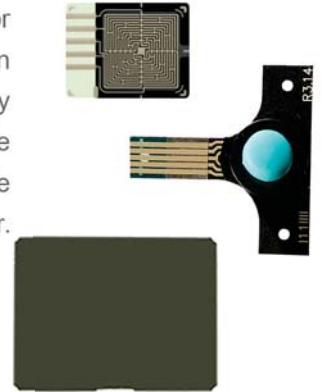
Interlink Electronics is a world leader in the design of patented Force-Sensing Resistor (FSR®) technology. For over 30 years, Interlink Electronics' solutions have focused on handheld user input, menu navigation, cursor control, & other intuitive interface technologies for the world's top electronics manufacturers. Interlink Electronics has a 17-year track record of supplying human machine interface (HMI) solutions for mission-critical and rugged applications.

Versatility Mouse, Pointing & Touchpad

Integrated mouse modules and pointing solutions from Interlink Electronics can add touchpad or 360-degree pointing control to virtually any electronic device. Ranging from simple Mouse Button integration to NEMA-rated industrial pointing devices, these solutions are ideal for applications away from the desktop. The modules use Force Sensing Resistor technology and measurement firmware in a four-zone sensor or 4-wire resistive touchpad configuration along with a microcontroller to provide pressure sensitive cursor direction and speed control in a durable and easy to integrate form factor.

Features & Benefits:

- Enumerates as a standard three-button HID-compliant mouse
- Requires no additional driver
- Tap for Left-Click
- Double Tap/Tap and Drag
- Drag Edge Lock
- Border Scroll
- Actuator can be a stylus, a finger or a gloved hand



Innovation Piezoelectric Force Transducer (PFT)

Interlink Electronics' PFT is a high performance, automotive grade, state-of-the-art HMI solution delivering a unique combination of high value features, application specific customisation and packaging options, and multi-market relevance. PFT leverages on Interlink's 30 year history of technology innovation, system integration capabilities and manufacturing expertise to deliver next-generation leading edge HMI solutions.

Features & Benefits

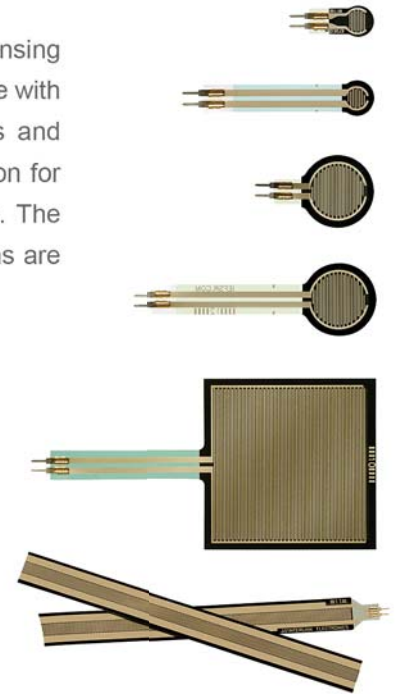
- Scalable platform architecture with application specific firmware
- Low power consumption
- Dynamic force detection
- Robust operation including compatibility with gloved hand activation
- Implementation with metallic surfaces

Force Sensors

Force Sensing Resistor technology from Interlink Electronics is the most versatile force sensing technology on the market today. These innovative sensors provide a response in resistance with an increase in applied force. Interlink's standard range of sensors provides engineers and designers with a durable, reliable, easy to measure, thin form factor and low cost solution for human machine interface (HMI) touch solutions and analog data capture for machines. The sensors are available in a range of sizes, shapes and lengths. Several connection options are also available as standard.

Features & Benefits:

- Actuation Force as low as 0.2N and sensitivity range to 20N
- Cost Effective
- Ultra Thin
- Robust, up to 10M actuations
- Simple and easy to integrate



Position sensors

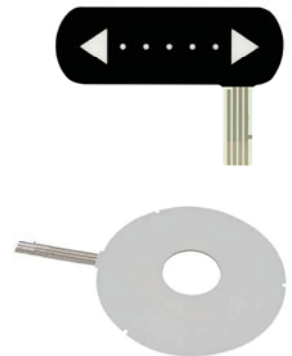
Force sensing linear potentiometers (FSLP) are sensors which can be used for menu navigation and control. Interlink's use of force allows for high rate scrolling and a more intuitive user experience. The FSLP is an easy to integrate, high resolution, ultra low power based solution that brings intuitive user controls to reduced form factor handheld consumer electronic devices. These sensors are available in multiple lengths as standard. Interlink also offers a ring sensor for full 360-degree position sensing. These sensors are designed to be integrated into a device's host processor without the need for a dedicated microprocessor.

Features & Benefits:

- Rugged design - Over 1M touch activations over entire sensor area with no degradation observed
- Measures position and pressure simultaneously
- Easy to integrate
- Low power consumption

Applications:

- Intuitive user interface
- Detect & qualify press
- Detect liquid blockage
- Detect proper tube positioning
- Detect centroid of force
- Detect presence, position & motion
- Many other force measurement applications



Embrace the Power of Sensor Technologies

Our Expertise. Your Success.

Services:



Electro Mechanical Engineering
Electrical Engineering
Tool Engineering
Prototyping Engineering
Manufacturing Process Engineering
Quality Engineering

Products & Solutions:



Force Sensors
Position Sensors
Mouse, Pointing & Touchpad

Operations:



High Volume Manufacturing
Engineering
Procurement
CM Management
Logistics
Distribution
Warehouse

Singapore
West Coast USA
Shenzhen China
Hong Kong
Worldwide Distribution

Global Presence:



Applications:



Intuitive User Interface
Detect & Qualify Press
Detect Liquid Blockage
Detect Proper Tube Positioning
Detect Centroid of Force
Detect Presence, Position & Motion
Many other force measurement applications

Quality:



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