

IEE presents innovative solutions for increased automotive safety and comfort

Luxemburg, September 2008 - IEE, leading developer in intelligent sensing solutions, presents innovative solutions for enhanced automotive safety and comfort at this year's International Suppliers Fair in Wolfsburg, Germany (29 – 31 October).

BodySense: vehicle occupant classification for smart airbag deployment

The BodySense system consists of a sensor mat installed in the passenger seat and reliably classifies passengers in varying seating positions. BodySense is based on a capacitance measurement and suppresses the airbag for unoccupied passenger seats and children in child seats while ensuring airbag deployment for adults. The system is compliant with US standard FMVSS 208 issued by NHTSA (National Highway and Traffic Safety Administration) and offers the perfect solution to the trend towards installing low-risk capable airbags in vehicles. The BodySense sensor mat can also provide occupancy information for Seat Belt Reminder systems, reminding unbelted passengers to buckle up.

Protecto: impact sensor for pedestrian protection systems with active hoods

Protecto operates using a pressure-sensitive sensor in the front bumper of the vehicle. In case of an impact or even a crash, the system determines if the vehicle is colliding with an object or a person, as the sensor can detect impact location, impact width, impact duration and energy transfer. In the event of a collision with a pedestrian, the deployable hood system automatically engages, lifting the hood up and reducing the risk of serious injury by creating a crumple zone between the pedestrian's head and the hard engine bay components underneath. The Protecto sensor not only ensures secure detection of human beings and robust misuse discrimination; it can also be used for crash sensing. Simulation-based sensor integration in the vehicle significantly reduces development times for car manufacturers. Pop-up hood systems support tightening global regulation on pedestrian protection without compromising design freedom.

Smart input devices for enhanced comfort and design in the vehicle interior

IEE will also present interactive demonstration samples of its sensors for touch-sensitive smart input devices such as single keys, sliders, touch pads and Instrument Cluster Panels (ICP) for the vehicle interior. These devices allow convenient command of functions like e.g. audio, HVAC, sun roofs, windows and navigation systems. They can be integrated with almost any interior surface; have an extremely low implementation depth and allow full backlighting capabilities, thereby creating innovative concepts for car interior design.

Smart input devices for consumer electronics

To showcase the company's diversification into other markets, IEE additionally presents touch-sensitive smart input devices for consumer electronics. Similar to the smart input devices for the car interior, these devices are based on FSR (Force Sensing Resistor) and capacitive sensing technology, offering increased intuitivity and user-friendliness and lending uniqueness and style to cell phones, MP3 players, audio equipment, and many more.

IEE can be found in hall 3 at stand 413.

About IEE

IEE S.A. is a privately held innovative developer of specialized sensing systems. Founded in 1989 and headquartered in Luxembourg, the company has operations in Europe, the US and Asia. IEE is a global leader in automotive safety sensing systems for occupant detection and classification. The company's solutions are dedicated to the following markets: Transportation & Automotive, Consumer Electronics, Public & Commercial Infrastructure, Automation & Logistics and Medical & Healthcare. IEE employs 1,400 people worldwide. 26 % of the company's workforce is engaged in Research & Development. For more information, please visit <http://www.iee.lu>.

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