

Press Release for immediate release – March 22nd 2014

For Editors



Sensing The Force

American Electronic Components Incorporated is a leading manufacturer of relays, tilt switches and G-force sensors. With a 65,000 sq. ft. manufacturing facility in Elkhart, IN, AEC has been operating for over 80 years, has representatives throughout the United States and has well known trusted brands.

Keith Vanderbosch, Vice President of AEC, commented, “Our highly specialized G-Force Sensor Switches are used frequently in industrial, automotive and military applications. Typically used in driver monitoring applications, helicopter rotor systems and tire pressure monitoring systems where the switches are mounted in each wheel. The G-Force sensor helps manage power consumption, switching on the power of the main pressure sensing circuit when relevant motion is detected. Additional applications for the G-Force sensor are numerous. The device can be applied anywhere a contact closure is needed to alert a circuit that the target force has been reached.”



Tested for more than 10M operations, AEC’s G-force switches are highly reliable with proven **failure rates of less than 1ppm**. The main contact surfaces are gold, hermetically sealed with a dry high pressure gas and are of robust automotive grade. Standard G-Force ranges from 2.0 G and upwards with customized ranges available upon request. Contact resistance is typically <2 Ohms and 50 Ohms maximum at 6 G’s throughout the life of the product. These parts are an ideal addition to low power circuits. Contact ratings up to 50 mA at 12 VDC provide reliable switching in systems using today’s microcontrollers at their core.

“We carry out assembly and testing of the device on our fully automated production cell, producing two units per cycle at a rate of 1,800 per hour. In line with our stringent quality control procedures, all G-Force Switches are fully tested on our automated Spin Testing Cell, ensuring they meet our exacting performance characteristics.”

“We are very proud to be manufacturing and supplying a product that contributes so hugely to safety on the road and that has gained such high recognition, particularly in the motor industry.” Concluded Vanderbosch.

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About American Electronic Components Incorporated

AEC is a leader in the design and manufacture of specialized electrical and electronic components primarily for automotive and industrial applications. Our product line includes position sensors, G-force sensors, acceleration switches, DURAKOOL relays, inclination sensors & switches and HERMASEAL glass to metal seals. Our creative engineering team has extensive experience in harsh environmental packaging concepts. We use high-quality products and are positioned to support your most challenging applications. AEC are ISO 9001 quality certified.

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