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ITW ActiveMetal Switches offer Engineers and Designers New Possibilities

The Next Generation in switching and sensing technology is ultrasonic resonance associated with so-called „Energy Trapping Theory“ which frees designers from the technical specification limitations traditionally associated with conventional electronic or electro-mechanical switching configurations.



This technology has considerable advantages over piezo, capacitive or other sensory systems because it allows considerably thicker materials to be used for front panels and a clearer specification of the sensor area.



Additionally, the switch is continually active which means that functionality is continually under surveillance and not first when the switch is pressed. This makes them particularly suitable for harsh environments and where disaster tolerance is important.

ActiveMetal switches have a duty cycle in excess of 100 million Operations – virtually unlimited because there are no moving parts and they are not affected by shock, vibration or impact which can easily destroy piezo switches or lead to false readings. Almost any material can be used including metals, plastics and even glass or granite which means that designers have a wide scope in the design of their equipment. Additionally, the switches are completely sealed and will even work completely satisfactorily when submersed and under pressure.

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