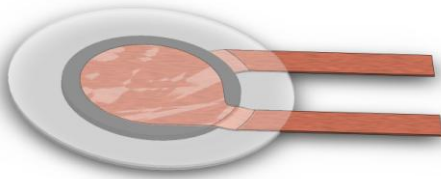


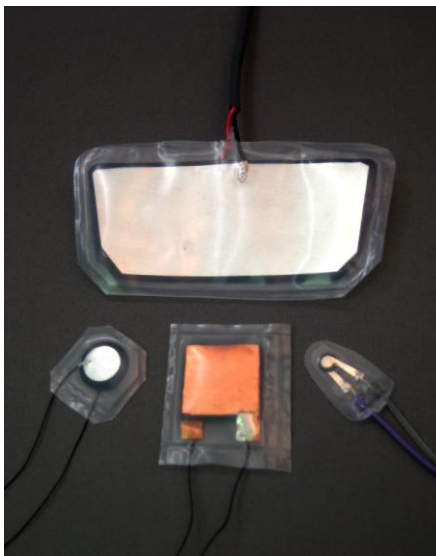
## SensorTech Pressure Switches – How Do They Work?



For its pressure switches, SensorTech uses a patent pending conductive composite of polyethylene (PE). To make a pressure switch, SensorTech places the polymer between two electrodes that are in the load path – one electrode on top of the polymer composite, and one electrode on the bottom of the polymer composite. Because the load path travels directly through the electrode/polymer composite sandwich, the polymer sees the full load applied to the thin sheet force sensor.



The polymer's surface resistivity decreases with an increasing load. A threshold resistance, which can be varied by the user, determines the switching pressure. With a low supply voltage, the output has sufficient current to drive any industrial relay and is compatible with most security system electronics.



What sets SensorTech's pressure switches apart from the rest is they are customizable in shape and size for almost any application. Because of this, they can fit easily and unobtrusively in various locations depending upon the application. These sensors are also vacuum thermoformable giving them the ability to cover any shaped object. They are hermetically sealed allowing for use in many different environments. The sensors also have a low energy draw.