

New Product Applications

Float Switches

November 2011



Customer

The UK based specialist division of one of the world's largest hydraulics manufacturing and distribution companies. This division deals very largely with military and highly specified hydraulics applications. Rochester Sensors UK had previously worked with this division with the provision of capacitance level switches and their success prompted the customer to approach us knowing our capability with float switches.

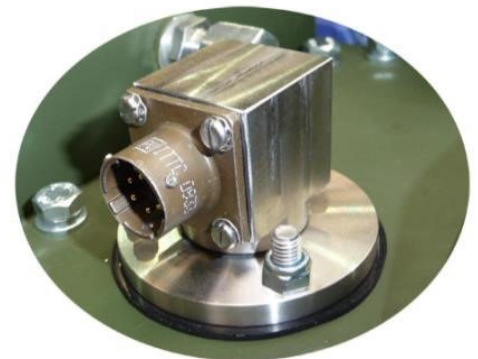
Application

Hydraulic oil level sensing and switching. The customer had been awarded a contract to design and manufacture a hydraulics system which would close the rear doors of an armoured troop carrier within 3 seconds of being activated. With human life potentially at risk in a conflict situation it was imperative that all aspects of the system were 100% reliable.

Product

A review of the application led us to specify an entirely a 316 stainless steel construction employing totally inert Buna N floats and ruggedized the float switch further by mounting the reed switches onto a PCB. A 3 holes custom flange mounting and a round Mil Spec type connector were further specified.

Initial design approval was given a large amount of vibration, shock and temperature testing was conducted. This was then followed by extensive field testing before the design was signed off for production.



Rochester Sensors is very pleased to be supplying such a high profile and prestigious company with a custom designed product. This is one more in a long list of application based products which Rochester Sensors has designed and put into production.

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