Projected specification of miniature mechanical switch

This switch concept is a ***mechanical*** high reliability design incorporating high current bounce free contacts. It is based on friction free technology with a highly predictable switch point, and is intended for mercury switch replacement.

The sensor would be uniaxial with the switching point determined by the internal mechanical design of the sensor and non adjustable. The device will incorporate hysteresis at the switch point to avoid chatter. The package is intended for through hole printed circuit pin mounting, and is envisaged as a plastic moulding for maximum cost effectiveness. Anticipated component costs in production volumes greater than 10,000 units is in the region of £0.35. A snap together construction is featured with minimal assembly cost.

Projected Specification

Angular switching range:	estimate 15°
Angle tolerance:	<1°
Angle repeatability:	<0.5°
Switching current:	0.5A – 1A
Contact resistance	<0.1 Ohm
Package outline:	8H x 8W x 15L mm

Prototype development would be subject to a non disclosure agreement to be drawn up prior to commencement. If production of any device is agreed subject to agreement a patent will be sought and the technology licensed to the client company, who would pay royalties and cover any patent fees that arise. The licence and royalties would run for the same term which would be renewable. Should the patent ultimately not be granted a sales based commission will be payable for a period subject to prior negotiation.

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