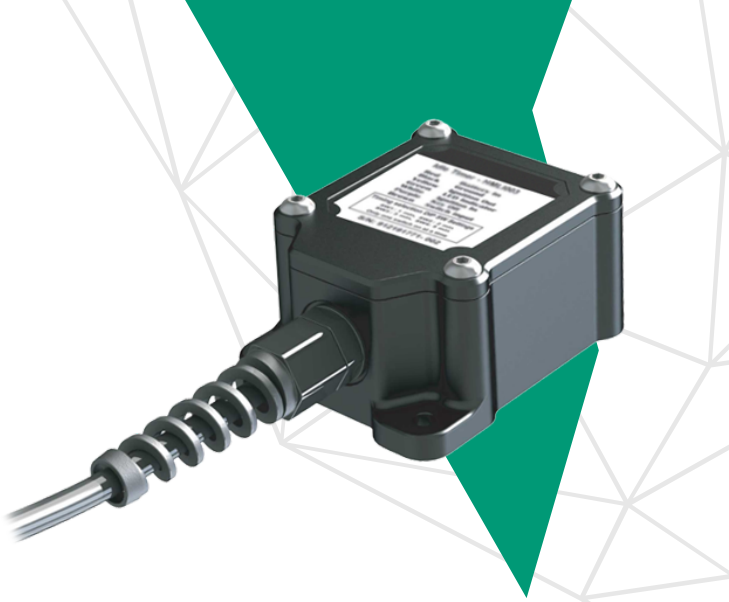
Accurate, flexible and compact



USB Configurable Tilt Switch

The AusProTec Hummingbird USB Configurable Tilt Switch is an accurate switch with voltage outputs, typically used in automation systems where voltage output is required.

Applications for tilt switches vary widely, and so do the parameters required for optimum performance. Using a built-in USB interface and free software, users can set various parameters associated with the tilt switches and can view their performance in real-time.

Dual axis sensing is supported, and two configurable alarms are available.

Configurable tilt switches measure pitch and roll angles with high accuracy by measuring the earth's gravitational field. Two internal voltage-free relays can be programmed to close or open at various combinations of the measured pitch and roll. For maximum flexibility, normally open, normally closed and common outputs are available.







An integrated USB interface means that the sensor can be configured in-application using a laptop. The USB interface allows the following configuration:

- Set alarm conditions as a combination of pitch and roll.
  Set hysteresis on each alarm output to avoid erratic switching at the set point.
- Zero the sensor to eradicate small offsets due to mounting.
  Apply variable damping to avoid false readings in mechanically noisy, environments.
- The configuration software also facilitates real-time monitoring of the pitch, roll and relay status. A scrolling graph allows the user to evaluate sensor response and noise in the application.

Please note, that the integrated relay outputs are not internally fused. Driving currents larger than those specified will result in damage to the tilt switch.

Reference: SBAP0321001

Features

- Accurate to 0.1 degrees for up to 30 degrees of tilt in any axis
- Manual calibration can be performed
- 2 voltage outputs
- USB configurable angle and voltage outputs
- Multi-voltage range from 9-36V
- Reverse polarity protected
- Separate outputs for pitch and roll
- Rugged aluminium enclosure

Specifications

Input Voltage	9 – 36 VDC
Warranty	1 Year
Weight	253g (0.55lbs)
Height	35mm (1.37")
Length	82mm (3.22")
Width	57mm (2.24")

Parts

APN: 16338 USB CONFIGURABLE TILT SWITCH

Reference: SBAP0321001