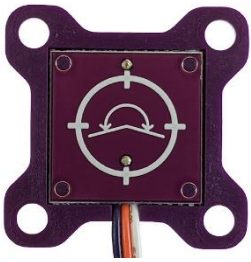# Tilt sensor bit datasheet

The Tilt sensor bit is an input bit that detects when it is tilted past a certain point.

The tilt sensor has two states 'tilted' and 'not tilted'. The red LED on the Tilt sensor indicates the state of the sensor.
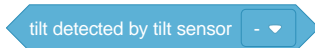
LED on = tilted

LED off = not tilted

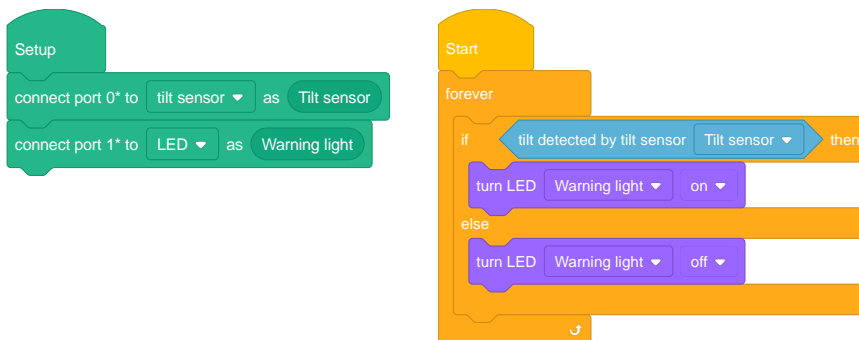| Use in ports	Stencil guide	Bit type	Block category
0 - 7	Ⓑ	Input	Sensing

Programming blocks

The programming block for the tilt sensor bit is a sensing block so it must be used with control blocks, such as 'if<>then' or 'wait until<>' blocks.

Example program

This example program will turn a warning light on if the tilt sensor is tilted and turn the warning light off if the tilt sensor is not tilted.

In the real world

Tilt sensors are used in real world inventions for safety and security. Tilt sensors can detect when a hatch door has been opened or if something has been moved.

Portable heaters use tilt sensors to detect when the heater has been knocked over. When this happens the tilt sensor is triggered, and the heater is automatically switched off to prevent a fire.