Reference

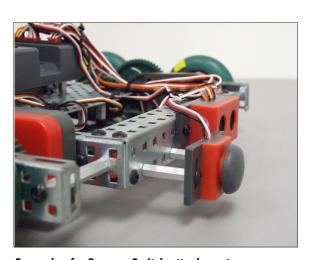
Touch Sensors Overview

There are two different VEX sensors, the Bumper Sensor and the Limit Switch, that act as touch sensors. Despite their differences in appearance and usage, both sensors operate in a similar matter, and can be programmed in the same way.

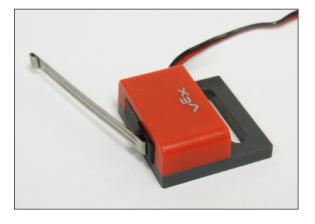


Bumper Switch

The Bumper Swtich, above, is a type of touch sensor for the VEX. Due to its size and construction, it is better suited for tasks such as wall detection.



Example of a Bumper Switch attachment



Limit Switch

The Limit Switch is another form of touch sensor for VEX. It is more suited for detecting smaller motions that might not trigger the bumper sensor.

Both then Bumper Switch and the Limit Switch are digital sensors. Whenever the sensor is pressed in, it will return a value of 1. Whenever it is not pressed in, it will return a value of 0.

Touch sensors are used to perform a variety of tasks, from solving a maze using wall detection to controlling the movements of your robot's arm attachment.

Note: On both the Bumper Switch and the Limit Switch, the red wire is not used. Even if you notice that the red wire is "falling out" of the sensor, it should not have any effect on the sensor's performance.

Touch Sensors Natural Language Sample Code

Move Forward Until Touch

This code has the robot move forward until the sensor is pressed and then stop moving.

Move Forward When Released

This code has the robot wait until the touch sensor is released and then then move forward for 1 second.

Bump to Spin

This code has the robot wait until the touch sensor is bumped and then spin right for 1.5 seconds.