

**ADAPTIVATION**  
**I N C O R P O R A T E D**

*The World at a Touch*

***HoneyBee***

*Proximity Switch*

**Instruction Manual**

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## Quick Start

- *Turn on the HoneyBee by sliding the On-Off switch to the ON position. You might have to pull the yellow silicone boot aside to access the switch.*
- *A power-up warble can be heard. This indicates that the battery is in good, working condition. After the warble, the HoneyBee will calibrate itself. This calibration is necessary to assure accuracy independent of ambient light conditions. The HoneyBee will power up to the 1" range setting.*
- *You can easily recalibrate at any time by pressing the CAL button. Be sure that no fingers, hands, etc., are near the red sensor window during calibration.*
- *During calibration it is very important that your hands and all other objects are clear of the red sensor window; at least three feet of clearance is recommended. See paragraph 7, page 11 for an exception to this requirement.*

- *Plug the HoneyBee cord into a communication device, switch-adapted toy, computer switch interface or other device that accepts a switch with a 1/8 inch (3.5 mm) plug.*
- *You may now activate the HoneyBee by placing your hand or other solid object within the one-inch detection zone over the red sensor window. You will hear an audible beep indicating that the HoneyBee has detected your hand, and has activated your communication device, toy, switch interface, etc.*
- *When your hand is removed from the detection zone, the HoneyBee will deactivate the device in which it is plugged.*

## **Introduction**

Your Adaptation *HoneyBee* switch is a proximity switch designed to detect the presence of a hand or other solid object that is placed over the red sensor window on the front surface. There are four range settings: 6-inches, 3-inches, 1-inch, Touch.

There is a “zone” of sensitivity directly over the red sensor window on the front surface of the *HoneyBee*. When a hand or other solid object is placed anywhere within this detection zone, the *HoneyBee* will be activated. When activated, the *HoneyBee* will do two things, 1) produce an audible beep, 2) activate the device in which the *HoneyBee* is plugged.

As long as your hand remains within the detection zone, the *HoneyBee* will continue to activate the device. When your hand is removed from the detection zone, the *HoneyBee* will deactivate the device.

### **Battery Life**

The *HoneyBee* uses a CR2032 coin cell battery commonly available at many retail and online establishments. Your *HoneyBee* is shipped with a battery already installed. Under normal operation the battery should last many months. This is true only if the device is turned OFF when not in use. Please remember to

turn off the device when it is not in use. Refer to the following table for estimated battery life based on mode (range) and daily usage.

<i>Range</i>	<i>Usage (hrs/day)</i>	<i>Battery life</i>
<i>6 inches</i>	<i>4</i>	<i>6 months</i>
<i>3 inches</i>	<i>8</i>	<i>12 months</i>
<i>1 inch</i>	<i>10</i>	<i>18 months</i>
<i>Touch</i>		

### **Battery Installation**

Use only a new, name-brand, CR2032 battery. Do not use a battery that has been taken from another device or that has been sitting in a drawer or cabinet for an unknown time.

1. Check to ensure that your *HoneyBee* is turned off by sliding the power switch to the off position.

2. Remove the yellow silicone boot from the *HoneyBee* enclosure.
3. Remove the battery cover by pressing down with your thumb on the ribbed portion of the lid, and while pressing down, slide the lid out of its locked position.
4. Remove the old CR2032 battery, and replace it with a new one. Observe proper polarity and orientation. Replace the battery lid, and the silicone boot.

### **Sensitivity (range)**

The *HoneyBee* has four range settings: 6-inches, 3-inches, 1-inch and Touch. It powers up in the 1-inch range. The Touch range requires that the user place his or her finger in contact with the red sensor window.

Select the desired range by pressing the ▲ (up) and ▼ (down) buttons. When selecting a new range, the *HoneyBee* will reca-

librate. While selecting a new range, make sure your hand is clear of the red sensor window to assure proper calibration. See paragraph 7 on page 11 for an exception to this requirement.

## **Calibration**

The *HoneyBee* functions by emitting an infrared (IR) beam, and then looking for a reflection of this beam. Differences in ambient light, temperature and nearby objects, can affect the accuracy of the *HoneyBee*. This is why calibration is needed.

Notice: The actual range is in part a function of the color of the object placed over the sensor window. Dark surfaces and dark objects will not reflect the IR beam as much as light surfaces and light objects.

Calibration occurs three ways: at power-up, each time a new range is selected and when the CAL button is pressed.

As mentioned earlier, when a new range is selected, the *HoneyBee* performs a calibration. For the 6-inch and 3-inch ranges, it can improve performance by recalibrating by pressing the CAL button. For calibration in 6-inch range, you might have to follow the directions in paragraph 7 on page 11.

### **Important Notes**

1. Battery life for the longer ranges is less because the IR beam is much stronger, using more of the battery's available energy. It is especially important to turn off your *HoneyBee* when it is not in use.
2. While using your *HoneyBee* for an extended period of time, the internal circuitry might drift due to temperature and light changes, and to a discharging battery. This might

cause the *HoneyBee* to be less (or more) sensitive for any given range. This drift is easily managed by recalibrating the *HoneyBee* by pressing the CAL button. In the 6-inch range, the IR sensor is pushed to its maximum capability, so any potential drift will be more likely than with the other ranges. The 1-inch and Touch ranges will likely not need recalibration as they are very stable modes of operation.

3. Because the *HoneyBee* works by using IR, the red sensor window must be used in line-of-sight with a hand or object. The *HoneyBee* does not work through tables, books, Lexan, Plexiglas or any other object or surface.
4. If you press and hold any button during power-up, the *HoneyBee* will be configured to provide a beep when your hand activates the *HoneyBee* by placing it in the detection zone AND when your hand is removed from the detection zone. This means there will be two beeps, one when you activate the *HoneyBee*, and a different beep when you deactivate the

*HoneyBee*. Be careful to keep clear of the red sensor window during power-up.

5. You are always free to recalibrate the *HoneyBee* by pressing the CAL button. It isn't typically necessary, but it doesn't hurt anything.
6. The yellow silicone boot is not necessary for proper operation of the *HoneyBee*. You can remove it by peeling it away from the enclosure and pulling the cord through the opening on the front of the boot.
7. Sometimes in 6-inch range, the *HoneyBee* can activate unintentionally, and stay activated. To correct this, recalibrate the *HoneyBee*. If recalibration doesn't correct this, it means the sensor has drifted beyond the ability to recalibrate. To correct this condition, recalibrate while holding your palm over the *HoneyBee* three to five inches over the red sensor window. This should fix the unintentional activation caused by the excessive drift.

## **1-Year Limited Warranty**

Your HoneyBee was carefully tested and inspected before it was shipped from the factory. We warrant this product to be free from defects in materials and workmanship under normal use and service for one (1) year from the date of purchase. In the event of a defect in materials or workmanship, we will either repair or replace without charge, at our option, any part which in our judgment shows evidence of such defect within one (1) year of purchase.

This warranty does not apply if the HoneyBee has been misused, abused, altered, or tampered with. At the end of the warranty period, Adaptivation shall be under no further obligation expressed or implied.

This warranty gives you specific rights, and you may also have other rights which vary from state to state.

For repair service, contact Adaptivation's technical department to receive a required RMA# (return material authorization number) prior to the return of the device.

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