

- The round sensor (piezo electric) responds to pressure changes or taps.
- As an alternative, the switch's can be attached to any other part of the body, and activated by any movement, which results in bending of the Sensor Element. As in the previous case, user should be aware that the switch reacts much better on short, quick movements. The speed, not the degree, of bending initiates the switching action.
- There are many other possible applications of this switch. For example, the switch element is sensitive to vibration. Thus, it can be used as an impact switch, e.g., if the Sensor Element is attached to the surface of the table, it will react on any vibrations of this surface, such as caused by striking it by a body part or any other object.
- Turn the control unit off after use to preserve the battery.
- If you have any problems or questions about this unit or any of our products, please call our Technical Assistance Department.

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## **The Sensor Kit - #1066**

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## **USER'S GUIDE**

The **Sensor Switch Kit** utilizes any muscle movement to activate any devices which require a switch's, enabling the individual with limited motor skills to control devices with a wrinkling of the forehead, a slight flexing of the arm, or a twitch of the finger or a tap. Further this unit provides 2 independent outputs.

### **Description of Features:**

**On-Off/Sensitivity Control:** The knob is used to adjust the sensitivity of switches. Turn the knob clockwise to increase sensitivity and counterclockwise to decrease.

**Mode Selector/Timing Control:** The small switches on the sides of the selects one of the three modes of operation - Latch Mode, Momentary Mode, or Timed Mode (See "Set-up and Operation"). In Timed Mode, this control is also used to select the amount of time (from 2 to 40 seconds) that you wish the device to remain on after activation of the switch. To increase the time in timed mode turn the white slotted adjustment knob.

**"Switch Output" Indicator Light:** The green lamps on the face of the unit will light to indicate that the switch is currently activated.

**Device Output Jack:** The small jack facing the user is used to connect a toy, computer, audio/video or communication device that has a 1/8" plug.

**Sensor Element (1):** The flexible Sensor Element is provided with non-irritating tape for convenient placement, and is plugged into the Sensor Element Jacks.

**Sensor Element (2):** The small Piezo disc Sensor Element can also be Used to pickup slight vibrations in muscle or on hard surfaces such as a tabletop or lapboard.

**Sensor Element Jack:** The small jack facing the user is used to plug in the flexible Sensor Elements.

### **Set Up and Operation**

1. Turn unit over carefully to reveal the battery compartment. Install one "9-V" battery, observing proper polarity, and secure by pressing down into the clip.
2. Select the type of sensor to be used plug Sensor Elements into the control unit. Select a comfortable location for the Sensor

Element and affix securely to the body using the supplied non-irritating tape. Area should be free of oil and perspiration. It is advisable to attach the Sensor Element cord in several points along its way as well, to prevent it from activating the sensor during unrelated movements of the user.

4. Plug device to be controlled into the Device Output jack. Set the Time/Momentary/Latch Switch to the function you wish to use.

**Momentary:** The device will operate as long as the capability switch is pressed. Releasing the switch will shut off the device.

**Latch:** Pressing the capability switch once and releasing it will activate the device. Pressing the capability switch again and releasing it will shut off the device.

**Time:** Pressing the capability switch will activate the device for a preset amount of time. Time is adjusted by rotating the small knob on the side of the unit and can be adjusted from a fraction of a second to 2 minutes (120 seconds). The device will then shut off regardless if the capability switch is pressed or not. To activate the device for another timed cycle, the capability switch must be released and pressed again.

### **Application Notes:**

The Flexible sensor element is designed primarily to be activated by the wrinkling of user's forehead. For best results, attach the Sensor Element to the center of forehead, and make sure the Element is already slightly arched forward when forehead muscles are relaxed. This will result in maximum bending of the element during the wrinkling and generate best possible input signal. Bear in mind that the switch was designed to discriminate between purposeful and uncontrolled wrinkling. Adjusting of the sensitivity level should allow you to find the position when fast purposeful movements will activate the switch, while slow uncontrolled movements will not.