

Balloon Switch

An extremely sensitive
squeeze switch

Balloon Switch - Operating Instructions

Technical Solutions' Balloon Switch is the most sensitive squeeze switch we've ever seen. Minute changes in air pressure are generated when a user squeezes the balloon. An electronic sensing system feeds measurements to a specially programmed computer circuit which constantly compensates for background pressure and 'non-switch' signals such as the user's heart beat.

The Balloon switch will operate for over a week on a 9 volt battery. When connected to a power supply it automatically changes to a more responsive program which can be used for switch scanning.

Any squeeze bulb or similar device can be connected to the Balloon switch. We supply conventional party balloons, with a light density foam insert. The foam insert gives the balloon a self inflating function and also provides some back pressure for the user to press against.



The Balloon Switch is not like a conventional blow or squeeze switch. It does not stay on if you maintain pressure on the bulb. It produces a short pulse output each time a squeeze is detected. This is used for call systems and scanning devices, but won't work with equipment which needs a sustained switch closure.

WARNING! CHOKING HAZARD

Children can choke on uninflated or broken balloons - use under adult supervision and discard broken balloons promptly.

WARNING! LATEX PRODUCT

The balloons supplied with the switch are latex based, which can trigger allergic reactions in some people. The user can replace the latex balloons with non-latex balloons if required.

WARNING! BIODEGRADABLE

Store balloons away from sunlight.



Using the Balloon Switch

Follow these simple steps:

1. Connect the balloon tube into the switch unit by pressing the tube firmly into the 'Sensor' socket.
2. Place the balloon comfortably in the user's hand or against a part of the body that can compress the balloon
3. Turn on the Balloon switch..
4. Test the sensitivity by getting the user to squeeze the balloon. Turn the 'Adjust' knob clockwise to increase the responsiveness. The ideal setting will give a reliable response without false triggering.
5. Connect the output lead from the Balloon Switch to the device you are controlling.
6. The LED indicator lamp shows the status of the unit:
 - * Green blink - Operating on battery
 - * Steady green - Operating on external power
 - * Red blink - Operating with low battery
7. To change the battery, slide the cover off the back and replace with a good quality 9 volt alkaline battery.



Removing and Replacing the Balloon:

- Press in the 'Release Ring' with one finger while pulling tube out of connector with other hand.
- Remove rubber band and balloon from 'Tube Connector'
- Fit 'Tube Connector' into new balloon and secure with rubber band

NOTES:

- Each balloon contains a light density foam insert. When discarding your used balloons please retain the foam insert so that you can insert it into your replacement balloons.
- If the tube end becomes rough, scratched or out of round cut off the damaged end.

