

Sip/Puff Switch User Guide



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Legal Notices

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Declaration of Conformity with European Directives

RoHS



CE

The Sip/Puff Switch contains two passive, normally open, pressure switches. Their contacts are brought out on two 1/8-inch (3.5mm) connectors. The switches are designed for low voltage and low current signal loads. They are not designed or rated for switching power loads. The switches are rated for switching voltages at or below 30-Volts AC/DC, and currents at or below 0.030-Amps.

The Sip/Puff Switch is a Low Voltage Device as defined in the Directive 2006/95/EC of 27 December 2006. It meets the criteria of Article 1 of 2006/95/EC of 27 December 2006 as a Safety Extra Low Voltage (SELV) device. The Sip/Puff Switch does not contain active electronics and Electromagnetic Compatibility (EMC) testing for Radio-electrical interference is not required.

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The Sip/Puff Switch conforms to the Restriction of Hazardous Substances (RoHS), and the Waste Electrical and Electronic Equipment (WEEE) Directives.

Application Disclaimer

The Sip/Puff Switch is designed for use by people who have limited or no motor capability enabling them to operate switch activated devices. However, it should not be used in an application where personal injury or property loss could occur if the Sip/Puff Switch failed for some reason. **Origin Instruments products are *not* authorized for use as surgical aids or as part of a system intended to support or sustain life.** The user assumes full responsibility for determining the suitability of the Sip/Puff Switch for the intended application.

Origin Instruments will not be responsible for direct or consequential damages associated with any use of the Sip/Puff Switch.

Introduction

Origin Instruments Sip/Puff solutions are ideal for people who have no or limited use of their hands. With a simple sip or puff they can operate switch activated devices, including computers, augmentative communication devices, adapted toys, environmental control systems and devices accessed or controlled via scanning.

The Sip/Puff Switch package includes:

- Sip/Puff Switch with in-line filter
- 6-foot (1.8-meter) tube with twist connectors
- Two 3.5mm Cables
- Documentation
- 1-year limited warranty

The Sip/Puff Switch with Headset includes:

- Sip/Puff Switch with in-line filter
- Sip/Puff Headset with 6-foot tube (1.8 meter)
- (4) Mouth tubes (one attached to Headset)
- Two 3.5mm Cables
- Documentation
- 1-year limited warranty

The Sip/Puff Switch with Gooseneck includes:

- Sip/Puff Switch
- Sip/Puff Gooseneck with universal mount
- (1) 6-foot tube (1.8 meter) with twist connectors
- (4) Filtered Gooseneck mouthpieces
- Two 3.5mm Cables
- Documentation
- 1-year limited warranty

Component Description and Instructions

The Sip/Puff Switch has two connectors for the sip and puff switches and a pneumatic connector to connect to a user interface (Example: Origin Instruments Headset or Gooseneck).

The electrical connectors are 1/8-inch (3.5mm) microphone connectors and are the type typically used for adaptive switches.

The switch contacts are normally open; closure is made with a sip or puff to the mouth piece.

NOTE: The switches are designed for low current and voltage applications. The Sip/Puff Switch is typically connected to a USB switch interface or an electronic device for people with disabilities.

<p>WARNING: Do not use the Sip/Puff Switch to control currents greater than 0.040 amps or voltages greater than 30 volts. Larger voltages and currents may permanently damage the switch and will void the warranty.</p>

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Figure 1: Sip and puff electrical connections on the left and pneumatic connector on the right.

Two cables are included with the Sip/Puff Switch. Connect a stereo cable to the center connector if both sip and puff closures are communicated to the controlled device using one cable.

With connector sense switch to the “left” and a stereo cable, a sip will cause a closure between the “TIP” and “SLEEVE” and a puff will cause a closure between the “RING” and “SLEEVE.” The right jack must remain open when using one stereo cable to transmit both sip and puff events. Slide switch to the right to reverse contacts on the center connector.

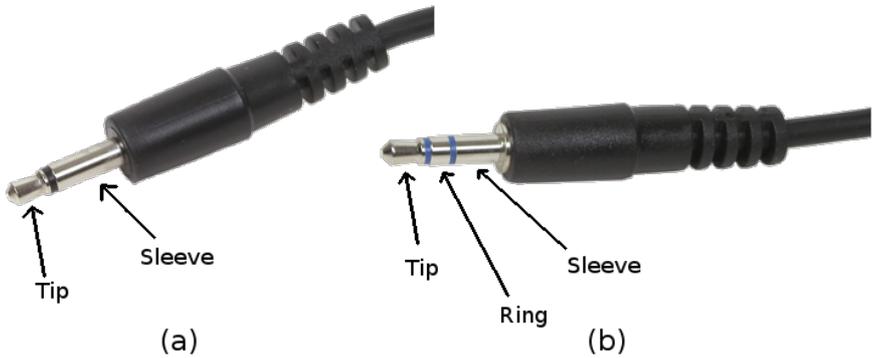


Figure 2 Mating Plugs for Sip/Puff Switch jacks, 1/8-inch (3.5mm). (a) Mono plug has switched contact on the tip with common contact on the sleeve. (b) Stereo plug has switch contacts on the tip and ring with common on the sleeve.

The user interface is attached to the Sip/Puff Switch via the 6-foot tube with special pneumatic connectors at each end. One connector connects the user interface and the other connects to the inline filter. The connector on the filter attaches to the Switch. Simply slide the halves together and gently twist the lock nut.

The pneumatic connector should not be over tightened.



Figure 3 In-Line filter protects the Sip/Puff Switch internal components from moisture. This filter cannot not be cleaned.

General Care and Replacements

The Sip/Puff Switch may be cleaned with a damp cloth, but it should never be soaked with water or cleaning solution. Do not allow any kind of liquid into the Sip/Puff Switch pneumatic connector.

The inline filter cannot be cleaned and should be replaced as needed.

You may clean the tubing with soap and water. Alcohol can also be forced through the plastic tubing using a can of clean, compressed air. The tubing must be allowed to thoroughly dry, otherwise cleaning solution may contaminate the filter and/or the Sip/Puff Switch. *Be sure to remove the inline filter before cleaning the tubing.*

Gooseneck:

The Gooseneck and clamp may be cleaned by wiping the exterior with a damp cloth. The gooseneck is covered with a water resistant vinyl, but it is made of metal and will corrode if immersed in water. Do not soak or immerse the Gooseneck. The mouthpiece aseptic filter should eliminate the need to clean the Gooseneck tubing. However, with the mouthpiece removed alcohol may be forced through the plastic tubing using a can of clean, compressed air. The tubing must be allowed to thoroughly dry, otherwise cleaning solution may contaminate the mouthpiece filter or pressure switch.

The Gooseneck mouthpiece is replaced by gently twisting off the old one and twist connecting a new one in its place.

Headset:

When a Headset mouth tube wears out it is simply slipped off the stainless tube and replaced with a new one. To ease mouth tube installation isopropyl alcohol may be used to wet the mouth tube prior to slipping it onto the metal tube.

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Replacement mouthpieces, mouth tubes and inline filters are available online from Origin Instruments at: <https://shop.orin.com>

Customer Support

Customer support is provided by Origin Instruments during the hours of 8:30 a.m. to 5:30 p.m. Central Time, Monday through Friday.

Please email support@orin.com or call 972.606.8740.

Warranty Information

Origin Instruments warrants that the Sip/Puff Switch, Sip/Puff Switch with Headset and Sip/Puff Switch with Gooseneck will be free from defects in materials and workmanship for a period of one (1) year from the date of shipment. If the product proves defective during this warranty period, Origin Instruments will, at its option, repair or replace the defective product.

In order to obtain service under the foregoing warranties, the Customer must notify Origin Instruments of the defect prior to the expiration of the warranty period.

The foregoing warranties will not apply to any defect, failure, or damage caused by improper use, or improper or inadequate maintenance and care. Origin Instruments will not be obligated to furnish service under these warranties (a) to repair damage resulting from attempts by unauthorized personnel to install, repair, or service the product; (b) to repair damage resulting from improper use or connection to incompatible equipment; or (c) to service a product that has been modified or integrated with other products when the effect of such modification or integration increases the time or difficulty of servicing the product.

The foregoing warranties are given by Origin Instruments with respect to company products in lieu of any other warranties, expressed or implied. Origin Instruments disclaims any implied

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warranties of merchantability or fitness for a particular purpose. Origin Instruments' responsibility to repair or replace defective products is the sole and exclusive remedy provided to the customer for breach of any of these warranties. Origin Instruments will not be liable for any indirect, special, incidental or consequential damages irrespective of whether Origin Instruments has advance notice of the possibility of such damage.

Products no longer covered by warranty may be suitable for repair. Contact Origin Instruments for an estimated repair fee.

Before returning a product for repair, please send an email to: support@orin.com or call 972.606.8740 to request a Return Materials Authorization (RMA) Number. Once RMA number is assigned, product must be returned postage pre-paid with all components to:

Origin Instruments Corporation
ATTN: Customer Service – RMA (insert your number)
854 Greenview Drive
Grand Prairie, TX 75050-2438 USA

For repairs during the warranty period, Origin Instruments will pay for the return of the product to the Customer if the shipment is to a location within the United States. For non-warranty repairs and for warranty repairs outside of the United States, the Customer will be responsible for paying all shipping charges, duties, taxes, and any other charges associated with the return of the product.



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