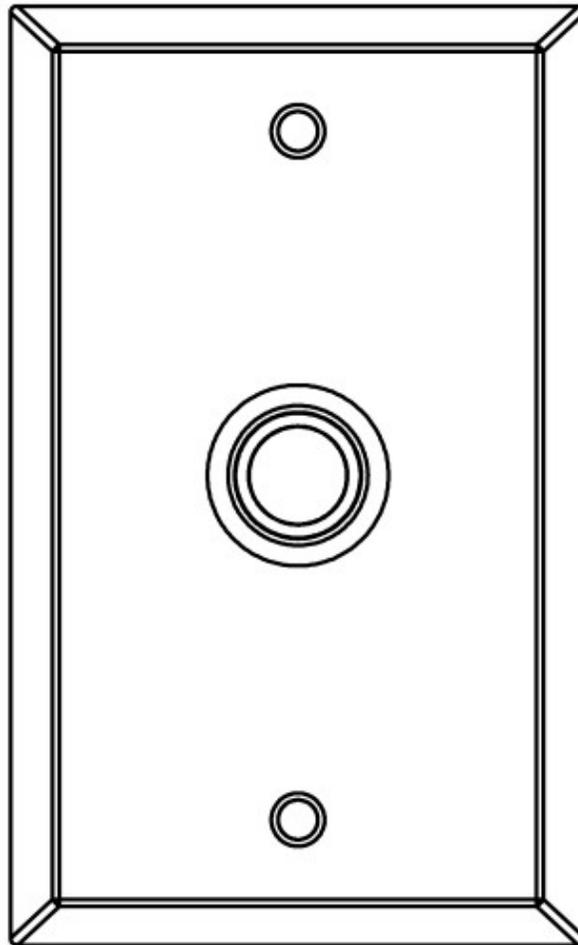




# 1203 Call Switch

## GETTING STARTED SHEET



Need Help?

(604) 454-3792 or [support@algosolutions.com](mailto:support@algosolutions.com)

## About the 1203 Call Switch

The 1203 is a LED backlit switch in a single gang stainless steel faceplate that connects to compatible Algo SIP endpoints. The functionality of the switch is determined by the configuration of the SIP endpoint to which it is connected.

Typical applications for the 1203 Call Switch are:

- To initiate a multicast alert or announcement from the attached SIP endpoint
- Make a SIP call from the attached SIP endpoint to a preconfigured extension and either play a notification or permit hands-free communication (for endpoints equipped with a microphone).

The 1203 Call Switch connects to the 'Relay Input' port of the SIP Endpoint. This port is capable of detecting a dry contact closure (normally open or normally closed) for which the input is named. However, the electronic circuitry in the endpoint is also capable of providing power to illuminate a call switch and measure external resistance to detect wire faults and multi-state events.

## Compatibility

The 1203 is compatible with the following Algo SIP Endpoints (running firmware v1.3 or higher):

- 8180 SIP Audio Alerter (G2)
- 8186 SIP Horn Speaker
- 8188 SIP Ceiling Speaker
- 8189 SIP Speaker Surface Mount
- 8190 SIP Speaker/Clock
- 8301 SIP Paging Adapter

## Getting Started – Quick Install & Test

 *This guide provides important safety information which should be read thoroughly before permanently installing the product.*

1. Install a compatible Algo SIP Endpoint by following its installation guide. Available online from [www.algosolutions.com](http://www.algosolutions.com)

2. Install the 1203 by connecting a single pair twisted 24 AWG wire to its terminal block and wire it to the Relay Input on the Algo SIP Endpoint's terminal block. The connection is polarity independent. If the endpoint is configured for the 1203 Call Switch the blue LED should illuminate immediately upon connection. The 1203 may be up to 1000 feet (300m) from the Algo SIP Endpoint when connected with a single pair 24 AWG wire. In practice, this will often be one pair from a 4 pair CAT5/CAT6 cable however any existing telephone twisted wire pair is suitable.

## **ESD Notice:**

***Electrostatic discharge to the 1203 Call Switch or faceplate will be conducted into the host IP endpoint if the electrical box is not grounded. If grounding the electrical box is not feasible or the electrical box is not conductive then either input terminal (Relay Input/SW) to the host IP endpoint may be connected to Earth ground. This connection may be made with a 24 AWG wire since it serves to bleed away static charge rather than conducting the ESD discharge to ground.***

***In certain cases there is no requirement for additional grounding. ESD protection and static discharge is built in to the following products if connected to a ground referenced network switch with static charge dissipation. Earlier manufactured products require ground protection at the 1203 switch or relay input.***

8301	<i>Rls 13 or later manufactured after May 2019</i>
8180G2	<i>Rls 01 or later manufactured after Oct 2018</i>
8186	<i>Rls 14 or later manufactured after Jul 2019</i>
8188	<i>Rls 14 or later manufactured after Oct 2019</i>
8190	<i>Rls 01 or later manufactured after Feb 2019</i>

***ESD testing with a Cisco Catalyst 2960S-24PS-L at +/- 20kV yielded good results without grounding. Network switches with external power supplies (even if chassis grounded) should not be used with the 1203 Call Switch unless the switch plate or IP endpoint is also grounded.***

3. Configure the SIP Endpoint to work with the 1203. Access the endpoint's web interface and navigate to Additional Features -> Input/Output. Set Relay Input Mode to "Relay Normally Open/with Supervision (e.g. Algo 1203 Call Switch)".
4. Set the action to be performed when the 1203 Call Switch is pressed under the "Action When Input Triggered" Section and/or set "Action when Tamper Detected" if "Relay Normally Open with Supervision" is configured in step 3.

Available actions include:

- Play Tone: typically used to play a user-configured tone locally and/or via Multicast.
  - Make Two-Way SIP Voice Call: the endpoint will place a two-way SIP call to a configured extension.
  - Make SIP Call with Tone: when the button is pressed the endpoint will call an extension and upon answer play the selected WAV file and disconnect.
  - Stream Audio (except 8190):
    - All endpoints except 8301: used to stream microphone audio to multicast only (requires Master/Sender multicast mode enabled).
    - 8301: used to play sound on the Line Out and Aux Out ports as well as multicast (if configured). The desired audio input port may be selected.
5. Save changes by clicking the save button located bottom right of the page.

## Important Safety Information



### DRY INDOOR LOCATION ONLY

The 1203 Call Switch is intended for indoor dry locations only. Contact Algo support for applications in outdoor or wet environments.

**CAT5 or CAT6 connection wiring to an IEEE 802.3at PoE+ or 802.3af compliant network PoE switch must not leave the building perimeter without adequate lightning protection. No wiring connected to the 1203 may leave the building perimeter without adequate lightning protection.**