HEATSTRIP®

ROCKER & RELAY CONTROLS INSTRUCTION MANUAL

HUSA03 Single Wall Switch
HUSA04 Double Wall Switch
HUSA05 Relay



HUSA03 SINGLE WALL SWITCH



HUSA04 DOUBLE WALL SWITCH



HUSA05 RELAY

- Rated for 120 & 208 & 240 volts applications
- One RELAY per heater, maximum 20 amps
- Zone heating: control multiple heaters with one switch
- Wall switches are wireless
- DIMMER SWITCH (HUSA07) is NOT COMPATIBLE

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Table of Contents

01 Introduction

02 Rocker Switch Overview

03 Relay Overview

04 Linking to Remote Controls

05 Installation Guide

06 Connecting Multiple Heaters

07 Warranty Terms and Conditions

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ROCKER & RELAYS CONTROLS

INTRODUCTION

To turn the heater ON and OFF, the Rocker and Relay control system uses the Wall mounted Rocker switches (like your light switches) and a relay connected to the heater.

The many advantages of using the rocker switches and relays are as follows.

- Multiple switches can control one heater
- One switch can control multiple heaters
- Convenient easy to use hand held remote control
- Wall Switch can be wall mounted, held remotely or junction box mounted Wireless, battery-less wall switch, uses patented kinetic energy technology Auto Timer OFF function included in Relay for 30, 60 or 120 minutes.
- Range of 80 feet for Remote Control and Switches
- Suitable for all heaters 120v, 208v and 240v
- The system is expandable and additional components can be added as required

When specifying the controllers, ensure there is one Relay for every heater. All products are FCC approved for North America. All components need to be protected from the elements.

ZONE HEATING

Zone heating is an effective way to control the heat in a larger space by only heating the area you need. Save energy and money by only heating the area above where the people are. It is not necessary to heat the whole area.

An example is if you have an area with 8 heaters, separate the area into 4 zones of 2 heaters each. For this system use 2 Double Rocker Wall Switches and 8 Relays (1 per heater). Each switch will control 2 heaters. Then only turn ON one switch with two heaters, above where the people are located.

SAFETY

- Must be installed by a licensed installer. Ensure all installation work complies to local building codes. Diagrams are indicative and must be installed with required isolators, RCDs, fuses, or circuit breakers. To be installed in conjunction with Product Manual (included in the product box)

INSTALLATION

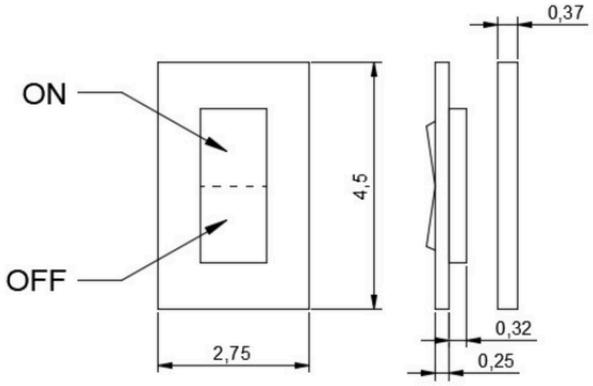
- Straighten antenna out and away from metal.
- Create separation distance away from interfering electronics such as motors, fans or other
- electronic devices.
- Obstructions such as beams, walls and dense building materials will reduce the range of the Rocker
- Switches and Remote Control.
- Test range of Rocker Switch before affixing to wall.

ROCKER SWITCH OVERVIEW

SINGLE ROCKER WALL SWITCH

PART NO: HUSAO3



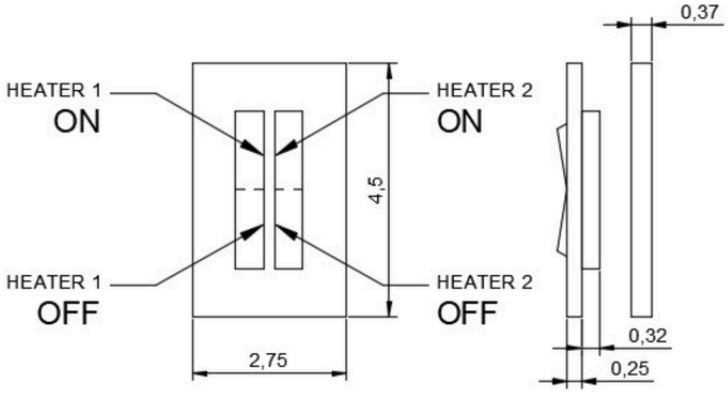


- For controlling one heater or one zone of heaters.
- The single Rocker wall switch can be mounted 3 ways; flush in a standard gang box, on a wall like a normal switch or loose as a hand held remote control.
- Range up to 80 feet (unobstructed).
- The switch is wireless and batteryless. There is no need to run wiring down the wall. Every time the switch is pressed a micro-generator produces a small electrical current, this then produces an electrical signal that is sent to the relay. This signal tells the relay to turn the heater ON or OFF

DOUBLE ROCKER WALL SWITCH

PART NO: HUSAO4





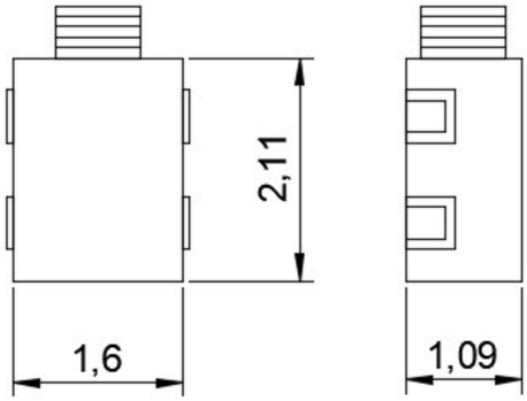
- See above HUSAO3 for details. The double rocker wall switch has two channels and can control 2 heaters or 2 zones of heaters

RELAY OVERVIEW

SINGLE ROCKER WALL SWITCH

PART NO: HUSA05





Specifications for Heater Relay

- **Voltage Compatibility**: Suitable for 120, 208, and 240 volts.
- **Maximum Current**: 20 amps.
- **Relay Requirement**: One relay is needed for each heater.

Relay Features

- The relay operates continuously but includes an **Auto-Off** feature that can be programmed to turn the heaters off after **30 minutes**, **60 minutes**, or **2 hours**.
- It is hardwired to the heater and generally mounted in the ceiling or on the wall. Ensure it remains accessible for occasional use. You may place it in a plastic enclosure for weather protection while still allowing it to receive signals from the switch.
- **Important:** Do NOT mount it inside the heater gangbox.

Additional Information

- **FCC ID**: SZV-STM300U
- **Certifications**:
  - UL 60730 (safety)
  - UL 2043 (plenum)
- **Storage Temperature**: -4°F to 176°F

RF Communication: 902 MHz EnOcean® Protocol

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LINKING RELAY TO SWITCHES & REMOTE CONTROL

OPERATION

When the relay light is solid **GREEN**, the heater is ON
When the relay light is solid **RED**, the heater is OFF

LINKING RELAY TO ROCKER SWITCH AND REMOTE CONTROL

Ensure that the rocker switch or remote control is positioned within 16 feet of the relay. Please note that the relays have a limited range during the linking process.

Light is **RED** solid, heater is OFF.
Hold the Menu button for 5 seconds. Light blinks **RED** Press the ON button of the switch 3 times quickly. Light stays **GREEN** for 3 seconds. Switch is now linked to the relay.
Light then blinks **RED**.
Wait 30 seconds to exit Linking. Light will turn **RED** solid

TURN THE HEATER ON AND OFF USING THE RELAY

Light is **RED** solid, heater is OFF.
Press the Select button, Light will turn **GREEN** solid, heater will be ON, it will take 10 minutes for the heater to reach full temperature.
Press the Select button, Light will turn **RED** solid, heater will be OFF.

AUTO-OFF FUNCTION

The Relay is able to program the heater to turn OFF after a certain amount of time.
To activate the timer, follow the steps below. The factory setting is continuously ON.

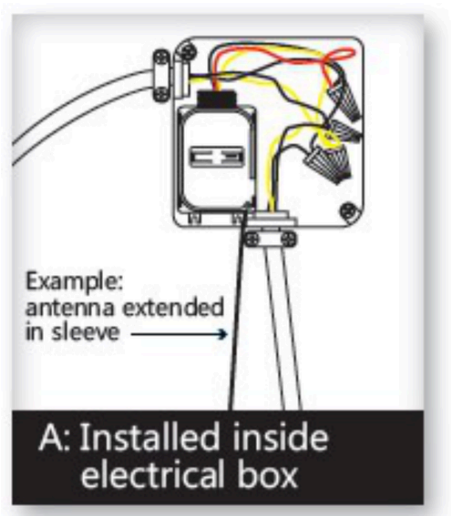
1. Light is RED solid, heater is OFF.
2. Hold the Menu button for 15 seconds. Light blinks AMBER.
3. Press the Select button for the number of minutes you want the heater to turn OF)

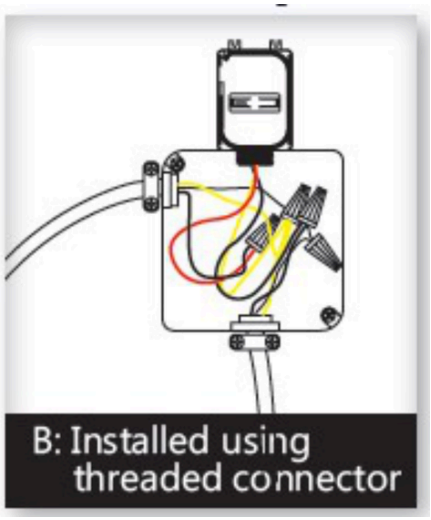
PRESS SELECT BUTTON	AUTO OFF TIMER (MINUTES)	AMBER LIGHT BLINKS
1	ON ALWAYS	1
2	30	2
3	60	3
4	120	4

4. The light will blink AMBER quickly corresponding to the timing setting.
5. Wait 30 seconds to exit Linking. Light will turn RED solid

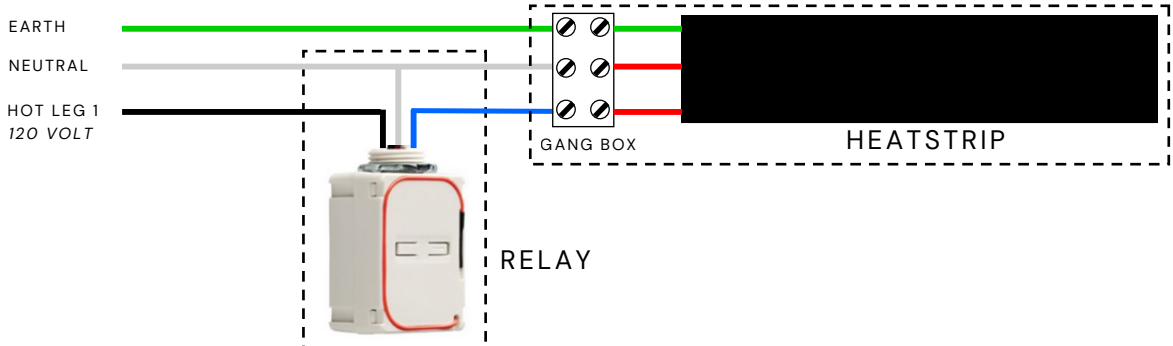
LINKING RELAY TO SWITCHES & REMOTE CONTROL

- Can be mounted inside a standard junction box, Attached using a standard knockout and thread connector with nut (included).
- The Relay is to be mounted indoors only and protected from the environment.
- Use a non-metal electrical enclosure for best RF transmission. Install in a suitable location taking care with interference through walls and other obstacles.
- When the relay is first installed, the relay will go through a start up sequence., this will take a few seconds, then it will be ready for programming.

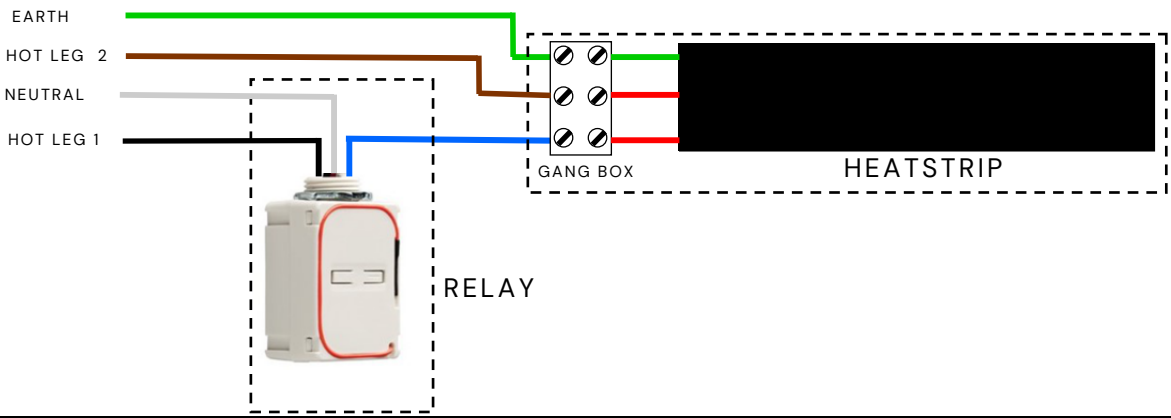




120 Volt Connection



208 & 240 Volt Connection



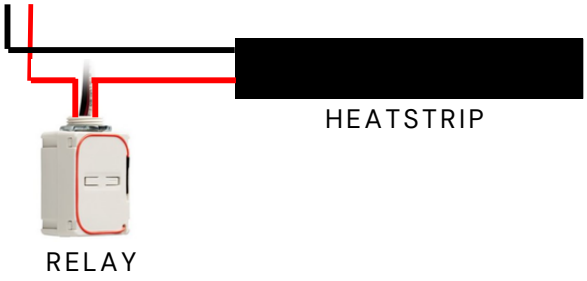
WIRING MULTIPLE HEATERS TO ONE SWITCH

A single rocker switch can control multiple relays. This can be used for zoned heating. Where a larger area can be separated into smaller heated areas.

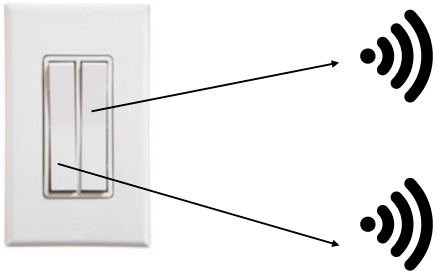
SINGLE ROCKER WALL SWITCH & 1 HEATER



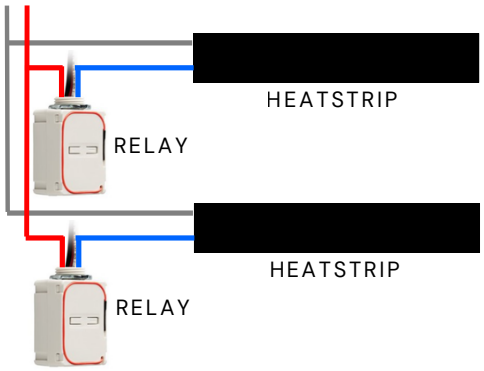
SINGLE WALL SWITCH



DOUBLE ROCKER WALL SWITCH & 2 HEATERS

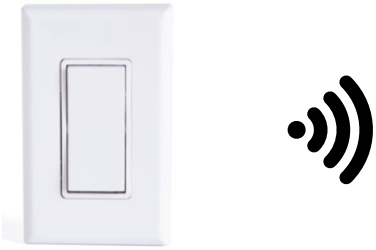


DOUBLE ROCKER WALL SWITCH

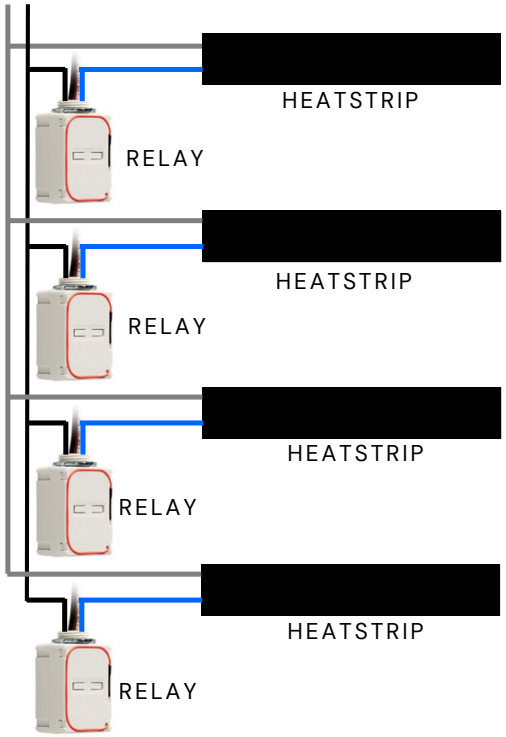


ZONE HEAT

SINGLE ROCKER WALL SWITCH & 4 HEATERS



SINGLE ROCKER WALL SWITCH



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WARRANTY TERMS & CONDITIONS

The below warenty terms and conditions apply for North American Customers.

Heatstrip warrants to the original **registered owner** that HEATSTRIP controller products will be free from defects in materials and workmanship for a period of 12 months from the date of purchase in accordance with the following warranty and conditions.

Provision of this warranty is subject to:

- The HEATSTRIP Controller products must be installed in accordance with the installation instructions and relevant electrical standards and codes.
- There is no warranty expressed or implied with regard to capacity requirements. The selection of the unit or units depends entirely upon the system design and capacities as determined by the purchaser.
- The customer has not repaired, opened, or altered the product in any unauthorized manner.
- This warranty excludes damage to the product or components arising from circumstances outside the control of Heatstrip, including but not limited to where the product is not used for its intended purpose; where the product has been rectified in any way; incorrect installation; incorrect power supply; damage caused during delivery; misapplication, misuse, abuse, vandalism, lack of maintenance, or accident.
- HEATSTRIP's obligations under this warranty are limited to repair or replacement at the Heatstrip factory of any components of the product which Heatstrip identifies to its satisfaction to be defective.
- Transportation charges involved in the return of the product to the Heatstrip factory (or any location authorized in writing by Heatstrip) are the sole responsibility of the customer.
- All products are inspected and tested before dispatch and are at the risk of the purchaser after the shipment from the Heatstrip factory, if not delivered by Heatstrip to the destination.
- No products or components will be supplied in advance of an examination of the faulty product or components by Heatstrip or an authorized representative of Heatstrip.
- Heatstrip does not participate in any item-related costs or labor expenses incidental to the replacement of parts, repairing, removing, installing, servicing, transportation, or handling of parts to complete products and assumes no liability for parts repaired or replaced without written authorization. Heatstrip shall not be liable for any default delay in performance of its warranty obligations caused by any circumstances beyond its control, including but not limited to judicial or government restrictions, strikes, fires, floods, abnormal weather conditions, or delayed supply of components.

Should products be determined as damaged on arrival, immediately notify the transport company of the condition and have them noted on the freight documents. If damage is discovered after unpacking, demand immediate inspection by the transportation company and insist that a record of the damage is made on the freight documentation.

This customer warrants using the product in accordance with:

- Any instructions provided to it by Heatstrip from time to time.
- All government and local regulations, including but not limited to all relevant electrical, environmental laws and regulations governing the installation, storage, and use of the goods.
- All necessary and appropriate precautions and safety measures relating to the installation, storage, use, handling, and maintenance of goods.

All warranty requests for repairs or replacements must be accompanied by a complete "Warranty Claim Form" available from Heatstrip, together with proof of purchase (and where possible, photos of the installation), and the heater returned to the place of purchase.

In the event of a warranty claim, the goods need to be returned to the distributor/retailer for repair/replacement.

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