**Features:**
- External Indicator Lights
- Universal Replaceability
- Simplified Wiring
- Sealed Relays
- Fuse Protected Outputs
- 100% Factory Tested
- Universal Thermostat Compatibility
- Extended 3 Year Warranty

**Operation:**
Connect a thermostat to the “T T” terminals on the switching relay. When the thermostat calls for heat, the relay is energized and power is given to the circulator.

**Power Input:**
Connect 120 volt ac power to terminals N and H.

**Jumper Placement:**
The jumper is factory installed between terminals H and 3 to switch power on terminals 4 n/o and 4 n/c.

**Terminal Description:**
- **T & T** Thermostat Connection
- **COM** Common side of transformer, to power some setback thermostats
- **N** Neutral wire of power input
- **H** Hot wire of power input
- **4 n/o** Normally open terminal
- **4 n/c** Normally closed terminal
- **6 n/c** Normally open terminal
- **6 n/o** Normally open terminal
- **5** Common terminal for 6 n/o and 6 n/c

**Specifications:**

<table>
<thead>
<tr>
<th>PRODUCT NUMBER</th>
<th>NUMBER OF ZONES</th>
<th>VOLTAGE</th>
<th>MAXIMUM COMBINED LOAD</th>
<th>TYPE 1 ENCLOSEMENT</th>
<th>HEIGHT</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SR501-4</td>
<td>1</td>
<td>120 VAC</td>
<td>12 amps</td>
<td>47/8</td>
<td>23/8</td>
<td></td>
</tr>
</tbody>
</table>

All circulator relay connections, including ZC/ZR, are rated 1/2 hp (6 FLA, 36 LRA) at 120 VAC. The thermostat connection supplies a 24 VAC class 2 output.

**Troubleshooting:**
- **Problem:** Digital thermostats do not work correctly when connected to a switching relay.
- **Solution:** Some thermostats are a “Power Stealing” type which means they are powered by the switching relay with just 2 wires (R & W). A resistor may be needed in order to have the thermostat work properly. This resistor should be placed between the W & C (common) terminals of the switching relay. If the thermostat manufacturer does not supply a resistor, a 1000 ohm ½ watt resistor has proven to work with most models and is readily available at electronic supply outlets (e.g. Radio Shack). If the thermostat is battery powered, then check that the batteries are fresh and installed correctly.

**Diagram:**

```
<table>
<thead>
<tr>
<th>See NOTE 1</th>
</tr>
</thead>
</table>

**NOTE 2:** When using Alternative Wiring diagram, the boiler operating control’s ZC terminal will see the load of the circulator(s).

**WARNING:** When using Alternative Wiring diagram, wiring instructions must be followed so power originates from the boiler aquastat. Failure to follow these wiring instructions may result in a secondary source of power being connected to the boiler that may activate it under certain circumstances, causing injury or death.

For information on Taco’s Switching Relays (SR) including catalog sheet, instruction sheets, Visio stencils and our highly praised Zone Controls Wiring Guide, scan the QR code to the right or go to our website: [http://www.taco-hvac.com](http://www.taco-hvac.com).

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**WARNING:** Wiring connections must be made in accordance with all applicable electrical codes. Use copper wire only. 120 VAC wiring must have a minimum temperature rating of 75°C. Failure to follow this instruction can result in personal injury or death and/or property damage. 12-18 gauge wire recommended for 120 VAC connections, 14-22 gauge wire for thermostat connections, and 14-22 gauge wire for 24 VAC source connections.
Taco, Inc. will repair or replace without charge (at the company’s option) any product or part which is proven defective under normal use within three (3) years from the date of start-up or three (3) years and six (6) months from date of shipment (whichever occurs first).

In order to obtain service under this warranty, it is the responsibility of the purchaser to promptly notify the local Taco stocking distributor or Taco in writing and promptly deliver the subject product or part, delivery prepaid, to the stocking distributor. For assistance on warranty returns, the purchaser may either contact the local Taco stocking distributor or Taco. If the subject warranty, the purchaser will be billed for parts and labor charges in effect at time of factory examination and repair.

Any Taco product or part not installed or operated in conformity with Taco instructions or which has been subject to misuse, misapplication, the addition of petroleum-based fluids or certain chemical additives to the systems, or other abuse, will not be covered by this warranty.

If in doubt as to whether a particular substance is suitable for use with a Taco product or part, or for any application restrictions, consult the applicable Taco instruction sheets or contact Taco at [401-942-8000].

Taco reserves the right to provide replacement products and parts which are substantially similar in design and functionally equivalent to the defective product or part. Taco reserves the right to make changes in details of design, construction, or arrangement of materials of its products without notification.

Taco offers this warranty in lieu of all other warranties, express or implied, by law including warranties of merchantability or fitness for a particular purpose. This warranty gives the purchaser specific rights, and the purchaser may have other rights which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts or on the exclusion of incidental or consequential damages, so these limitations or exclusions may not apply to you.

Replacement Switching Relay fuses part number: SR6A-001RP (Manufacture: Littlefuse, Part Number: 229006)
Optional power stealing thermostat resistor part number: SRTR-001RP (Value: 1000 Ohms, 1/2 watt or higher)