Instruction Sheet
SR501-4 Switching Relay

SUPERSEDES: March 1, 2013  EFFECTIVE: December 20, 2013

Plant ID# 9300-2865

Features:
- External Indicator Lights
- Universal Replaceability
- Snap-in PC Board
- Simplified Wiring
- Sealed Relays
- Fuse Protected Outputs
- 100% Factory Tested
- Contractor Friendly PC Board Layout
- Universal Thermostat Compatibility
- UL Approved
- 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
- 3: Common terminal for 4 n/o and 4 n/c
- 4 n/o: Normally open terminal
- 4 n/c: Normally closed terminal
- 6 n/o: Normally open terminal
- 6 n/c: Normally closed 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>INPUT MAXIMUM</th>
<th>TYPE 1 ENCLOSURE</th>
<th>WIDTH</th>
<th>HEIGHT</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SR501-4</td>
<td>1</td>
<td>120/60/1 VAC</td>
<td>12 amps</td>
<td>4 1/4”</td>
<td>6 5/8”</td>
<td>2 3/8”</td>
<td></td>
</tr>
</tbody>
</table>

All circulator relay connections, including ZC/ZR, are rated 1/3 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.

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.

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.
**LIMITED WARRANTY STATEMENT**

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 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.

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.

Taco offers this warranty in lieu of all other express warranties. Any warranty implied by law including warranties of merchantability or fitness is in effect only for the duration of the express warranty set forth in the first paragraph above.

The above warranties are in lieu of all other warranties, express or statutory, or any other warranty obligation on the part of taco.

Taco will not be liable for any special, incidental, indirect or consequential damages resulting from the use of its products or any incidental costs of removing or replacing defective products.

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.