The IT-R4 is a multi-purpose switch or logic level activated Relay Module. Four user configured relays are controlled via five input ports that are designed to accept either a switch contact closure or logic level input. A four-position configuration dip switch sets the operating behavior of the relays. Each relay can be set for different operating modes; “On”, “Off”, pulsed for a ¼ of a second, or toggled, which changes the relay to the opposite state.

For a detailed description of operation and settings see the Switch Input Actuation Table.

**FEATURES**
- One module does the work of many
- Quick easy setup and configuration
- Small footprint
- High quality relays
- Quick screw terminals
- Integral mounting plate

**APPLICATIONS**
- Shade and screen control (via relay interface)
- Logic level control
- Relay contact closure
- Speaker muting
- Relay remote control

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TYPICAL APPLICATION

CAUTION:

The IT-R4 and IT-R4S relay interface modules are not intended to directly switch AC line voltages. Connection to lighting and shade and screen systems should be done at the low voltage control interface provided by the manufacturer. If you must interface to AC line voltages, add a relay module designed for this purpose such as the 12 Volt AC-2 or 12 volt AC-2A.

SWITCH INPUT ACTUATION TABLE

<table>
<thead>
<tr>
<th>Relay Config</th>
<th>Relay Operation</th>
<th>Relay Operation Chart</th>
<th>Mode Dipswitch Settings</th>
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<td>SPDT</td>
<td>Interlock</td>
<td>R1</td>
<td>R2</td>
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<td></td>
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<td></td>
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<td>R1 &amp; R2 On</td>
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<td>Alternate Action</td>
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<td></td>
<td>Alternate Pulse (0.2S Sec)</td>
<td>R1 On R2 Off</td>
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<td>4PDT All Selections</td>
<td>R1 to R4 On</td>
<td>R1 to R4 Off</td>
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<td></td>
<td>SPECIAL Special Purpose</td>
<td>R1 &amp; R2 On Pulse R3</td>
<td>R1 &amp; R2 Off Pulse R4</td>
</tr>
</tbody>
</table>

Dipswitch 4: 1 = Ground Control Input to Operate, 0 = +V(2-24) to Operate

SPECIFICATIONS

Relay Ratings
- Relay Contact material: Ag alloy
- Max. Switching voltage: 50 VAC, 30 VDC
- Max. Switching current: 5 A (NO)/3 A (NC)
- Max. Switching capacity: NO: 250 VA (AC), 150 W (DC Resistive) NC: 150 VA (AC), 90 W (DC Resistive)
- Min. permissible load: 10 mA @ 5 VDC (for contact cleaning)

Switch Input Characteristics
- Input Voltage: Logic High range: 2.0 – 24V Logic Low range: -1.0 - +1.0V
- Input Impedance: 7k
- Minimum Actuation Time to recognize a valid switch input: 0.1 Sec

Power
- Power supply: 12 VDC @ 160mA fully loaded. FSR IT-PS1 #16805 may be ordered separately

Mechanical and Environmental
- Connectors: Screw terminals
- Overall dimensions (see drawing for details): 4.25"L x 3.44"W x 1.57"H
- Shipping weight: 0.9 lbs.
- Ambient temperature: 0 to 50°C
- Ambient humidity: 5% to 95% non-condensing

Accessories
- 12VDC Interface Relay Module: FSR AC-2 (SPDT) or AC2A (DPDT)

Manual available on the FSR website.