

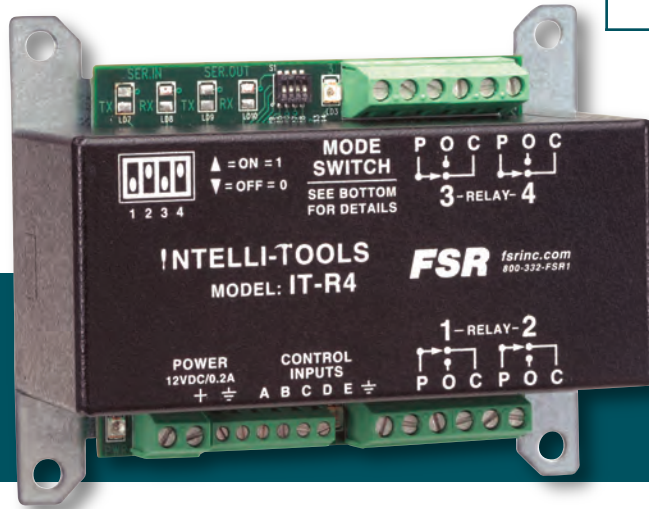
# IT-R4 Relay Control

## Switch or Logic Level Controlled Relay Module

# FSR

AV Products Group

IT-R4 Relay Control



### DESCRIPTION

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 1/4 of a second, or toggled, which changes the relay to the opposite state.

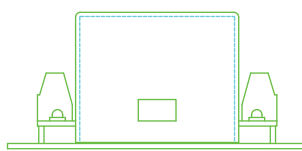
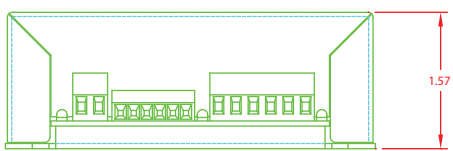
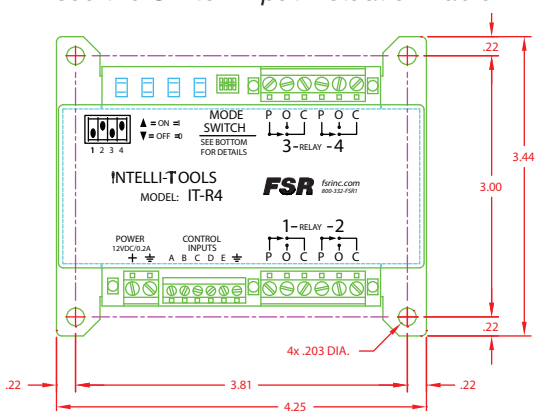
For a detailed description of operation and settings see the Switch Input Actuation Table.

### 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

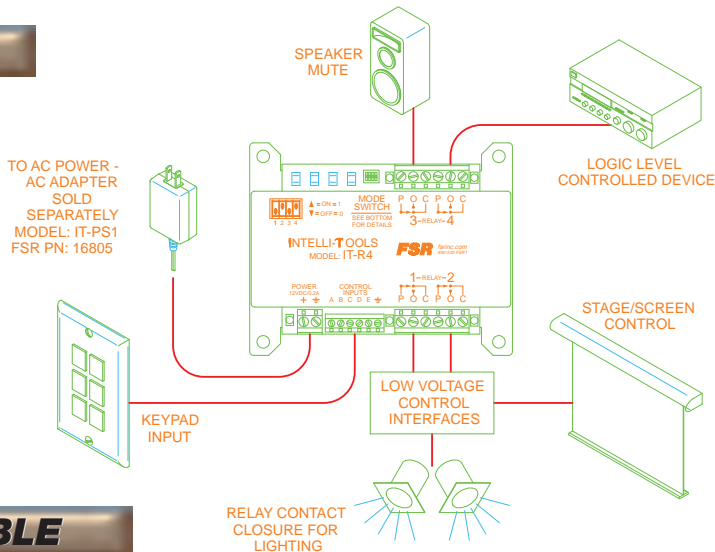
- Shade and screen control (via relay interface)
- Logic level control
- Relay contact closure
- Speaker muting
- Relay remote control



## 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

Relay Config	Relay Operation	Relay Operation Chart					Mode Dipswitch Settings			
		Control Inputs (Switch Inputs)					1	2	3	4
		A	B	C	D	E				
SPDT	Interlock	R1	R2	R3	R4	All Off	0	0	0	
	Alternate Action	R1	R2	R3	R4	All Off	0	0	1	
	Momentary	R1	R2	R3	R4	All On	0	1	0	
DPDT	Push On, Push Off	R1&R2 On	R1&R2 Off	R3&R4 On	R3&R4 Off	All Off	0	1	1	
	Alternate Action	R1&R2	-	R3&R4	All On	All Off	1	0	0	
	Alternate Pulse (0.25 Sec)	R1 On R2 Off	Edge Trig ┌=R1 └=R2	R3 On R4 Off	Edge Trig ┌=R3 └=R4	-	1	0	1	
4PDT	All Selections	R1 to R4 On	R1 to R4 Off	R1 to R4 Alt Action	-	-	1	1	0	
SPECIAL	Special Purpose	R1&R2 On Pulse R3	R1&R2 Off Pulse R4	R1&R2 On/Off Pulse R3 On, 4 Off	Edge Trigger ┌= Column A └= Column B	-	1	1	1	

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

## SPECIFICATIONS

<b>Relay Ratings</b>	
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)
<b>Switch Input Characteristics</b>	
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
<b>Power</b>	
Power supply	12 VDC @ 160mA fully loaded. FSR IT-PS1 #16805 may be ordered separately
<b>Mechanical and Environmental</b>	
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
<b>Accessories</b>	
12VDC Interface Relay Module	FSR AC-2 (SPDT) or AC2A (DPDT)