

**TRADELINE®**

## R182J, R482J, R845A, R847A, RA89A, RA832A Switching Relays

### Application

These relays can be used for a variety of switching applications. Typically they provide control of line- or low-voltage devices by a low voltage controller. See Table 1.

TABLE 1—SWITCHING RELAY SPECIFICATIONS.

Models	Application	Voltage (50/60 Hz)	Switch Action	Control Circuit	Coil Voltage (Vac at 50/60 Hz)	Relay Coil Current (A)	Contact Ratings (A)	
							AFL	ALR
R182J	For 24V thermostat control of line voltage devices.	120	Dpdt	3-wire	24	0.40 <sup>a</sup>	7.4	44.4
		240					3.7	22.2
R482J	Controlled by a line voltage controller	120		2-wire	120	0.08	7.4	44.4
		208/240			208/240	0.04	3.7	22.2
R845A	For hot water zone control systems or spst control of two separate loads.	120	Dpst		24	0.40	7.4	44.4
R847A	Provides switching for high-current loads such as cooling compressors.	120					22	100
		240					10	50
RA89A	For switching one line voltage load.	120	Spst				10.2	61.2
RA832A	For switching two line voltage loads with a common power source.	120	Dpst				7.4	44.4
		240					3.7	22.2

<sup>a</sup> **IMPORTANT:** The transformer on the R182 can over-heat when used with a series 20 thermostat if the total resistance of the thermostat circuit exceeds 2.5 ohms. If the measured resistance of the thermostat (including thermostat wire and thermostat contact resistance) exceeds 2.5 ohms, add a 100 ohm, 10 watt resistor between the W and R terminals. Table 2 gives maximum thermostat wire runs; if longer runs are necessary, measure the resistance or add a 100 ohm, 10 watt resistor across terminals W and R.

TABLE 2—LENGTH OF WIRE.

AWG Wire Size (Number)	Total Wire Length		Length of Run to Thermostat (Wires)	
	Feet	Meters	Feet	Meters
22	120	38.0	60	18.0
20	200	61.0	100	30.5
18	300	91.5	150	45.5
16	500	152.5	250	76.0
14	800	244.0	400	122.0