

Description

These triac relay modules are designed primarily for controlling tri-state actuators in retrofit applications. The REE-5525 allows a low-voltage, low-power, proportional (0–10 VDC) output from a controller or Building Automation System to operate a 24 VAC tri-state (floating) actuator at up to 12 VA and 30 VAC.

Optically isolated, zero-crossing triacs control the two (CW and CCW) outputs. If there is a loss of power, no signal will be generated, and the actuator will remain in its last position.

Features

- ◆ Control of a floating, tri-state actuator from a proportional 0–10 VDC input
- ◆ Optically isolated triac outputs, zero crossing
- ◆ Simple installation

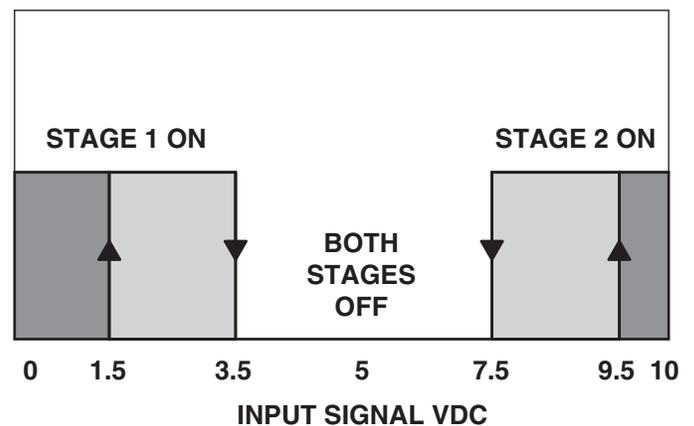


Specifications

Supply Voltage	24 VAC (+20%/–15%) @ 1 VA plus output loads, Class 2 only
Input Signal	0 to 10 VDC
Switching Differential	2 VDC (see Sequence chart)
Output Types	Optically isolated triacs, zero crossing
Output Capacity	30 VAC max., 12 VA
Connections	Plated screw terminals
Wire Size	14–22 AWG, stranded
Material	Beige flame-retardant plastic
Weight	2 oz. (57 grams)
Approvals	SASO PCP Registration KSA R-103263
Temperature Limits	
Operating	32 to 120° F (0 to 49° C)
Shipping	–40 to 160° F (–40 to 71° C)

NOTE: Triac outputs are for 24 VAC loads only.

SEQUENCE



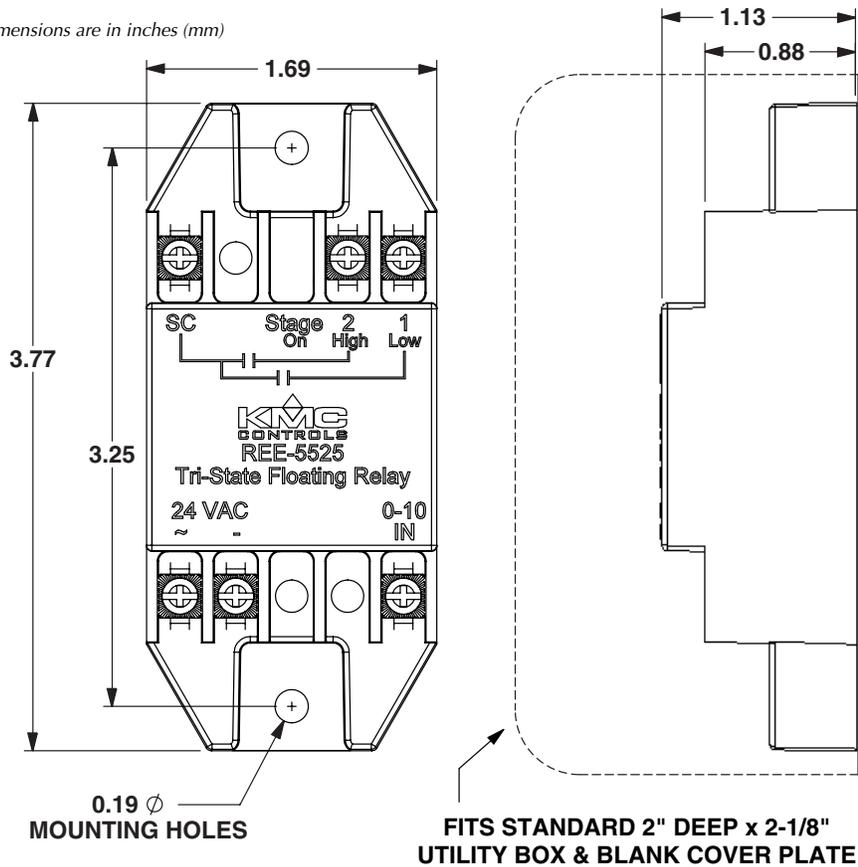
The stage sequence operates in this manner:

- Stage 1 turns on at or below 1.5 VDC* and off at or above 3.5 VDC. (It is on at 0 VDC.)
- Stage 2 turns on at or above 9.5 VDC* and turns off at or below 7.5 VDC. (It is on at 10 VDC.)
- **Both** outputs are off between 3.5 and 7.5 VDC.

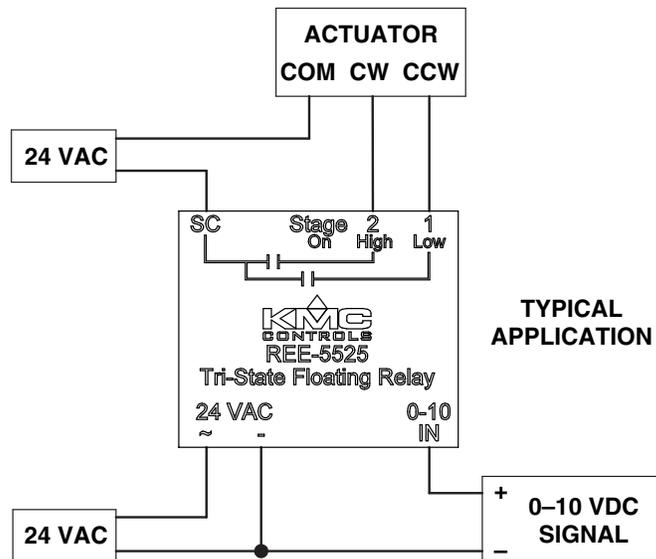
*NOTE: In the **dark** grey regions of the chart, the stage is definitely **on** for the given voltage. In the **light** grey regions, however, on or off **depends** on the previous state.

Dimensions

All dimensions are in inches (mm)



Sample Application



NOTE: The 24 VAC sources can be the same or separate, with no regard to phasing.

NOTE: Triac outputs are for 24 VAC loads only. Outputs are isolated from their 24 VAC power.

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