LIGHTING CONTROLS

GE LIGHTING RELAYS *RR-7, RR-9*

DESCRIPTION

GE Model RR-7 and RR-9 lighting relays are mechanical latching-type units requiring only momentary 24 VAC switch circuit pulses to open or close line voltage circuits. All GE low voltage relays may be used to full-rated capacity for tungsten filament, ballast, or resistive loads. The **Model RR-9** includes an auxiliary contact on the low voltage side for status indication.

CAUTION: The coil is designed to resist burnout if continuous voltage is applied, but coil life will be shortened with prolonged, continuous voltage.



Optional Bracket for RR-7/RR-9 and HDR Relay

SPECIFICATIONS

Supply Voltage

Power Output Relay Type Relay Rating

Resistive Ballast Tungsten Fan HP Status Contact Coil Ratings Center, (BLU) ON, (RED) OFF, (BLK) Coil impedance Coil Inrush Current Cycle Endurance 30-38 VDC momentary Pulse None SPST, Mechcanically latching, dry contact 30A @ 277 VAC 20A @ 277 VAC 20A @ 125/AC, 1/2HP @ 125/277 VAC RR-9 only, 24V AC, @1A (YEL/YEL) 3 wire split coil

21-30 VAC (class 2) momentary pulse

Common 50 ms Pulse, Nominal 24 V AC/DC 50 ms Pulse, Nominal 24 V AC/DC 75-85 AC, 55-60 DC 325 mA @ 24 VAC, 450 mA @ 35 VDC 100K cycles no load, 50K cycles full load

Visual Indication None Short Circuit Current (SCCR) 10,000 A **Operating Temperature** 32° to 140°F (0° to 60°C) **Operating Humidity** 10% to 90% RH noncondensing 3 or 5 Control wires - 6", 20 AWG Wiring Terminations Contacts- 2 Screw clamp for 10-14 AWG Mounting 1/2" male knockout Dimensions 1.5W x 2.5L x 1.7D (3.8 x 6.4 x 4.3 cm) See diagram Weight 0.3 lb (0.12 Kg) Approvals UL File # E18830, CSA certified Warranty 1 year

RR-7



GE LIGHTING RELAYS

RR-7, RR-9



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INSTALLATION

The relay employs a split low-voltage coil to move the line voltage contact armature to the ON or OFF latched position. The ON coil moves the armature to the ON position when a 24 VAC control pulse signal is impressed across its leads. This is analogous to a magnet attracting the handle of a standard single-pole switch to the ON position when energized. The armature (handle) latches in the ON position and will remain there until the OFF coil is energized, drawing the armature into the OFF position. This control operation provides several key control features:

Positive action

The relay always goes to the state commanded. For example, multiple off commands will simply keep the contacts in the OFF position.

Stable operation

Since the relay latches in the ON or OFF position, power outages do not result in a change of state.

Minimal power consumption

Control power is only required when the relay changes state.

Additive control functions

Pulse control signals coupled with latching allow any number of switches or electronic control devices to operate the same relay. The relay position is always dictated by the last pulse signal.



ORDERING INFORMATION	
MODEL	DESCRIPTION
RR-7	Three-wire low voltage leads, SPST 30A resistive contact
RR-7-B	RR-7 with banana plug connectors
RR-7-T	RR-7 with connector
RR-9	Five-wire low voltage leads, SPST 30A resistive contact with isolated SPST pilot 1A contact
RR-9-B	RR-9 with banana plug connectors
RR-BRACKET-4	Optional mounting bracket with 4, 1/2" KO for RR relay panel mounting

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