V LIGHTING CONTROLS

GE LIGHTING RELAYS MODELS 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 may be shortened with prolonged, continuous voltage.



Optional Bracket for RR-7/RR-9



RR-7



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SPECIFICATIONS

General information	UL listed, CSA certified; mounts in standard 1/2" K.O 0.865" to 0.875" (nominal 22 mm) dia - in 14- or 16-gauge material: oper-	Terminals	Two terminals, two back wiring holes per terminal for use with #14-10 AWG solid or stranded wire (copper wire only)
Operating voltage	ates in any position 24-29 VAC ($\pm 10\%$) half or full	Lamp load	20A tungsten filament 125 VAC 20A ballast 277 VAC
	wave rectified or pure, 30- 38 VDC (±10%) filtered	Resistive load Motor load	30A 277 VAC 1/2 hp @ 110-125 VAC
Min activating pulse	50 ms	Pilot contact	1/2 hp @ 220-277 VAC 1A, 24 VAC isolated (RR-9 only)
Coil impedance	75-85Ω @60 Hz unrectified 55-60Ω DC resistance	Temp Relative humidity	32° to 140°F (0° to 60°C) 10% to 95% RH noncondensing
Coil inrush current Contacts	325 mA @ 24 VAC SPST maintained (mechanical latching)	Dimensions Endurance	1.375"W x 1.6875"L x 2.375"H (3.5 x 4.29 x 6.03 cm) 50.000 cvcles, full load
Weight RR-7, RR-9 RR-BRACKET-4	0.3 lb (0.12 kg) 0.5 lb (0.21 kg)	Lead length	100,000 cycles, no load 6" (15 cm)

DIMENSIONS



PLIGHTING CONTROLS

GE LIGHTING RELAYS MODELS RR-7, RR-9

OPERATION

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 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 signal.

WIRING



ORDERING INFORMATION

MODEL	DESCRIPTION
RR-7	Three-wire Low Voltage Leads
RR-9	Five-wire Low Voltage Leads with
	Isolated Pilot Auxiliary Contact
RR-7-B	RR-7 with Banana Plug Connectors
RR-BRACKET-4	Mounting Bracket for RR-7 or RR-9 relays

