

LightSweep® Lighting Controls

RRx Mechanically Latching Relays

Project Name _____

Date _____ Type _____

Catalog Number _____



DESCRIPTION

The RRx series relays are mechanically latching devices for direct plugin into the Lighting Automation Panels.

Each relay employs a split low-voltage (24V) coil to move the line voltage contact armature to the ON(OFF) latched position.

This operation provided several key control features:

- Positive action. The relay always goes to the state commanded. For example, multiple OFF commands will 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.
- Ability to support multiple input devices. After the relay responds to a momentary pulse, it is then “free” to accept another pulse from any other control devices wired to it. The relay position is always controlled by the last signal.
- The RR9PBP includes an auxiliary pilot contact on the low voltage side to provide status indication.

Ordering Information

A complete assembly consists of four components

SKU	Product Description
RR7PBP	RR relay w/o pilot & 5-pin connector
RR7P3	RR relay w/o pilot & 3-pin connector
RR9PBP	RR relay with pilot & 5-pin connector

Specifications

Rated Capacity	
Lighting Load	20 A Tungsten filament 125VAC 30 A Ballast 277VAC, 347VAC
Resistive Load	30 A @ 277VAC, 347AC
Motor Load	½ HP @ 110–125VAC 1½ HP @ 220–277VAC
Operating Environment	
Temperature	0 to 60°C (32 to 140°F)
Relative Humidity	10 to 95% RH, non-condensing
Atmosphere	Non-explosive, non-corrosive
Vibration	Stationary applications NEMA Level A
Endurance	
Full Load	50,000 cycles
No Load	100,000 cycles
Line-Voltage Characteristics	
Contacts	SPST maintained (mechanically latching)
Terminals	2 Terminals w/2 back-wiring holes per terminal Use with #14–10 AWG solid or stranded copper wire only
Low-Voltage Characteristics	
Split coil	½ for ON, ½ for OFF
Operating Voltage	24–29VAC (±10%) Rectified (Minimum 21 VAC rectified) 30–38 VDC (±10%) Filtered
Duty Rating	Momentary – minimum 50 msec
Coil resistance	55–60 Ohms
Pilot Contact (RR9)	1A 24–29 VAC Resistive
Approvals/Standards	
cUL916	

RELAY DIMENSIONS

