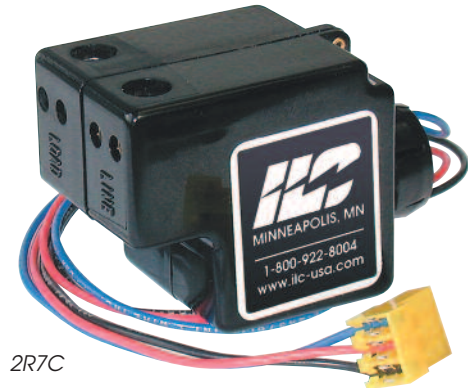




2R7 Relays

Magnetically Latched Relays

- Magnetically latching contacts
- Single moving part design
- Operates in any position
- Unmatched endurance (Ind. Test Lab)
 - 200,000 (ON/OFF) cycles, at FULL LOAD
 - 1,000,000 (ON/OFF) cycles, at no load
- 20 Amp 120,277 or 347 VAC operation
- UL listed, FCC approval for commercial and residential use



2R7C

Overview

The 2R7 Series of relays are designed and manufactured to be the longest-lasting, most reliable relays available. By incorporating a unique single moving part (the contacts) design, both endurance and reliability are significantly enhanced. Compare our 200,000 ON/OFF cycle FULL LOAD and 1,000,000 no load ratings with any other relay in the industry. We're confident you will agree that for reliability and endurance, ILC's 2R7 Relay Series simply can't be beat. ILC 2R7 relays are magnetically latched, requiring only a momentary rectified AC or DC pulse to open or close the contacts.

Features

General Information

- UL Listed
- Mounts in standard $\frac{1}{2}$ " K.O. .825" - .875" diameter, 14 or 16 gauge material
- Operates in any position

Line Voltage Characteristics

- Contacts: SPST Maintained (permanent magnet latching)
- Terminals: 2 Terminals, 2 back wiring holes per terminal for feed through wiring
- Screw-actuated clamps for use with #14-10 AWG solid or stranded copper wire only

Low Voltage Characteristics

- Split coil: $\frac{1}{2}$ for "ON", $\frac{1}{2}$ for "OFF"
- Compatible with standard interface drivers
- Operating voltage
 - 18 – 30 VAC rectified
 - 12 – 24 VDC filtered
- Duty rating: Momentary
- Minimum activating pulse time: 17 milliseconds
- Coil Impedance: 68 – 73 ohms at 60Hz; 50 – 60 ohms DC resistance
- Switching power required for each 2R relay is:
 - 2.2 VA per relay at 24 VAC rectified
 - 175 mA per relay at 12 VDC
 - 350 mA per relay at 24 VDC

Application Considerations

- **Relays Connected in Parallel** – Two or more relays connected in parallel, by grouping red leads and black leads, will operate together. The maximum number of relays connected in parallel is determined by the capacity of the power supply and the switch contact rating.



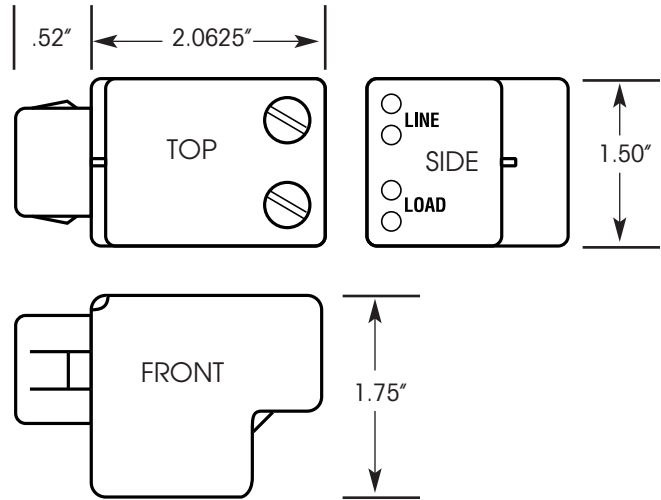
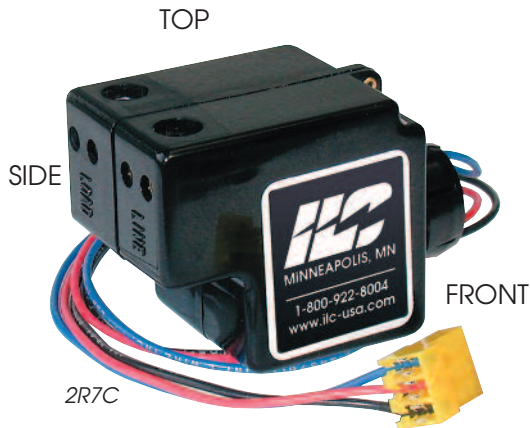
INTELLIGENT LIGHTING
CONTROLS, INC.

5229 Edina Industrial Boulevard
Minneapolis, Minnesota 55439
Phone 952 829 1900
FAX 952 829 1901
1-800-922-8004
www.ilc-usa.com



2R7 Relays

Magnetically Latched Relays



Specifications

Physical:

- Mounts in standard 1/2" K.O. .825" - .875"
- Operates in any position

Electrical:

- 120, 277 or 347 VAC
- Motor Loads
 - 1 Hp @ 120VAC
- 20 amp Ballast 120, 277 or 347 VAC
- Resistive loads: 20 amps 120, 277 or 347 VAC
- SCCR Rating: 18,000 Symmetrical Amperes (see PDF PD0201 for details)

Connectors:

- Leads available in plain wire (no connector), C connector (5-pin female connector), EZ connector (quick disconnect terminals for standard .187" x .020" male tabs)

Operating Environment:

- Location Interior space
- Operating Temperature 0° to 60° C (32° to 140° F)
- Relative Humidity 10% to 90% Non-condensing
- Atmosphere Non-explosive, Non-corrosive
- Vibration Stationary application NEMA Level A

Certifications:

- UL
- FCC approval for commercial and residential use

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How to Order

Ordering a **2R7** Relay
Order No. 2R7C(sample)

2R7 _____

P= Plain wire
C= 5-pin female connector
EZ= Quick disconnect terminals