The UL924 Listed RRU-1 emergency shunt relay allows emergency luminaires powered by an emergency generator or inverter to be switched off, but automatically illuminate during a utility power failure or room power interruption, regardless of local switch position. This meets NFPA 1104-2.4.1, OSHA, and all relevant life safety codes.

The RRU-1 line voltage input is connected to a sensing circuit. Upon power interruption on the sensing input, the output relay contact drops into a N.C. position and turns on the emergency load(s). Review wiring diagram, on reverse, for details.

The RRU-1 can be installed above the suspended ceiling in a junction box or in the light fixture ballast channel.

RRU-1 can also be mounted in plenum, when tiles are removable.

**Method of Operation**

- The UL924 Listed RRU-1 emergency shunt relay allows emergency luminaires powered by an emergency generator or inverter to be switched off, but automatically illuminate during a utility power failure or room power interruption, regardless of local switch position. This meets NFPA 1104-2.4.1, OSHA, and all relevant life safety codes.

- The RRU-1 line voltage input is connected to a sensing circuit. Upon power interruption on the sensing input, the output relay contact drops into a N.C. position and turns on the emergency load(s). Review wiring diagram, on reverse, for details.

**Electrical Specifications**

- MODEL RRU-1-120 or RRU-1-277
- Line Voltage Sensing Input
- Dry Contact Output
- 20 Amp Load Rating
- N.C. Contact

**Mechanical Specifications**

- UL94V-0 Flame Rating | Shipping Weight: 8 oz
- Temperature: 32°F - 140°F | Color: Black
- Size (with mounting ears): 3-3/4"(L) x 1-3/4"(W) x 1-1/4"(H)

**Installation**

The RRU-1 can be installed above the suspended ceiling in a junction box or in the light fixture ballast channel.

**RRU-1 Universal Mount**

- **Wall or Ceiling Installation**
- **Fire Ceiling Installation**
- **Fixture Mount Installation**

**RRU-1 Universal Mount**

- **Wall or Ceiling Installation**
  - Recommended Box Size 4-11/16 with blank cover

- **Fire Ceiling Installation**
  - 15" x 15"

- **Fixture Mount Installation**
  - RRU-1 Universal Mount
  - Ballast Channel Cover

---

LVS, Inc. 2555 Nicholson Street, San Leandro, CA 94577-4216
Phone: 510-352-9600 1-800-982-4587 Fax: 510-352-6707
www.lvscontrols.com
Model RRU-1 Installation Instructions

Installation

In order to install the RRU-1 in accordance with national/local code requirements, a qualified electrician should review and understand the installation instructions: Check voltage and current requirements. Verify and lock out circuit breakers on both normal power and 24 hours emergency circuit. Install a self-adhesive 2” x 3” caution label in each fixture or load controlled by an RRU-1 unit cautioning that this load is supplied from 2 different power sources, regular and emergency. Review wiring diagram and connect wires, one group at a time, in accordance with the numeric identification.

In order to provide a safe light level, when regular power is interrupted, it is recommended that a minimum of two 4' fluorescent tubes providing approximately 5000 lumen are controlled by a 24 hour emergency circuit and are spaced no farther than 24' in any direction from each other in a normal 9' white ceiling environment. The RRU-1 is a universal mount unit, convenient and fast to install virtually anywhere.

Troubleshooting & Maintenance of RRU-1

If RRU-1 does not function properly on startup perform the following tests:

To test normal operation, ensure branch circuit breaker is connected and utility power is available. Toggle room switch, or relay contact for emergency light and ensure that emergency light goes on and off.

To test emergency operation, turn room switch or relay contact to “OFF” position. Turn regular branch circuit breaker to “OFF” position and verify that emergency light illuminates, while regular lights remain off.

No maintenance is required to keep the RRU-1 functional. However, regular testing should be performed when the lamps or ballasts have been replaced or when facility remodeling has taken place.