



**Emergency Lighting
Management
&
Energy
Conservation**

BLTC TYPE

CATALOG NUMBER

**Specification-Grade
Emergency Lighting Switch**

Surface-mount rated

Features

The BLTC-R 120 or 277 is a self-contained power supply and low voltage relay housed in a thermo-plastic housing.

36 inch color-coded, numbered and tinned leads for easy wiring.

Surface mounts to junction box.

High capacity for up to 10 amp load.

Universal load compatibility - operates magnetic and electronic ballasts, high power factor fluorescent and incandescent loads.

Single voltage: 120 or 277.

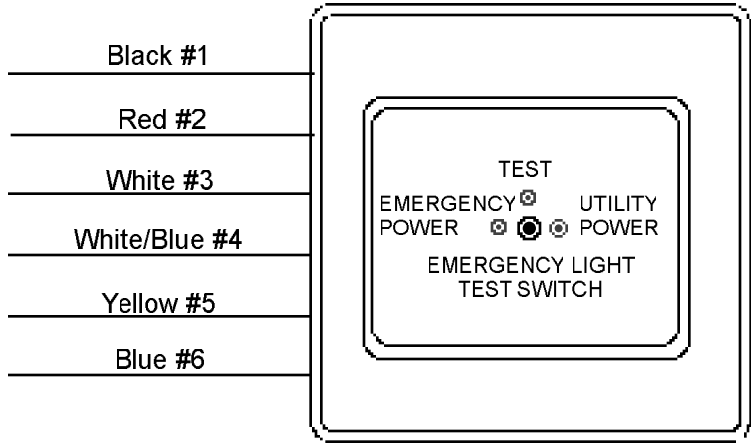
3 separate status indicators (NEC700-7).

50,000 volts plus input surge protection.

On-board test switch for local inspection (NEC 700-4).

UL 924 listed.

Designed to override switches in case of normal utility power failure per UL924. You can use room switches, photo cells, time clocks and any other type of switch that can supply a BLTC-R switch line with light branch voltage.



LENGTH: 5"
WIDTH: 5"
HEIGHT: 1-1/2"

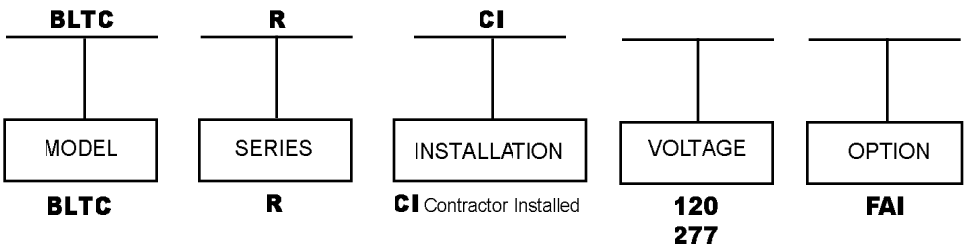
UL 924 Requirement

Test switch: UL924 spec. 29. effective June 1, 2001 (NEC 700-4). Local Test Switch is incorporated as a UL924 requirement. Separate Red light emitting diode (LED). indicators for Emergency Power and Amber LED for Normal Utility Power are designed for inspectors to check that source connections are correct.

NEC and NFPA Requirements

BLTC-R shall always failsafe to on utilizing mechanically held contacts (NEC 700-BC and NFPA 110.4-2.4.1).

Ordering Information



Specifications

Installation

BLTC-R is made to be installed in a 4 11/16" square junction box with a 2 gang plaster ring for flush mounting in either a wall or ceiling. The 4 mounting screws are hidden with color matching covers. BLTC-R Weight: Approx. 0.75lb, 0.3Kg.

BLTC-R must be ordered either 120 or 277 volt.

Construction

The unit is permanently sealed and enclosed in a white thermoplastic housing.

Dimensions: 5"L X 5"W X 1.25"H.

Weight: .75lb, .3Kg

Operation

BLTC products are designed to work with alternate emergency power systems including emergency generators and central inverter systems.

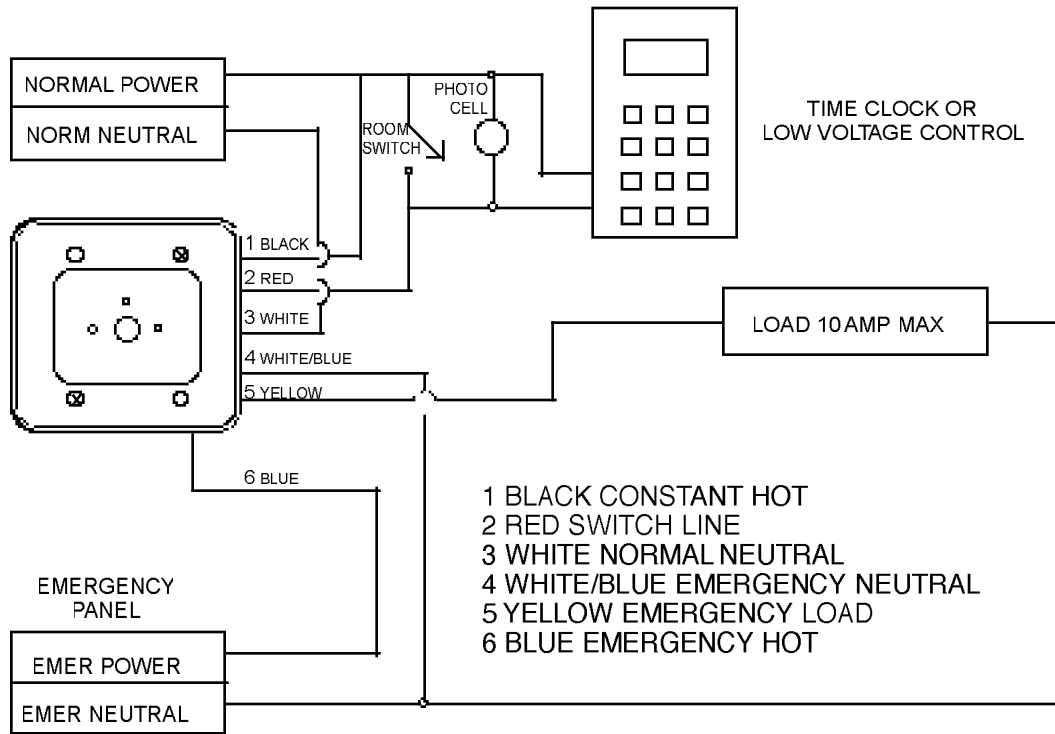
The BLTC-R is made to allow switching of designated emergency lighting via dimmers, relays or local switches (see application drawings) seamlessly switching the fixtures on when normal power fails.

The BLTC-R can also be used to keep emergency fixtures from being energized until normal power fails (see application drawings) switching fixtures to the emergency power source until normal power is restored.

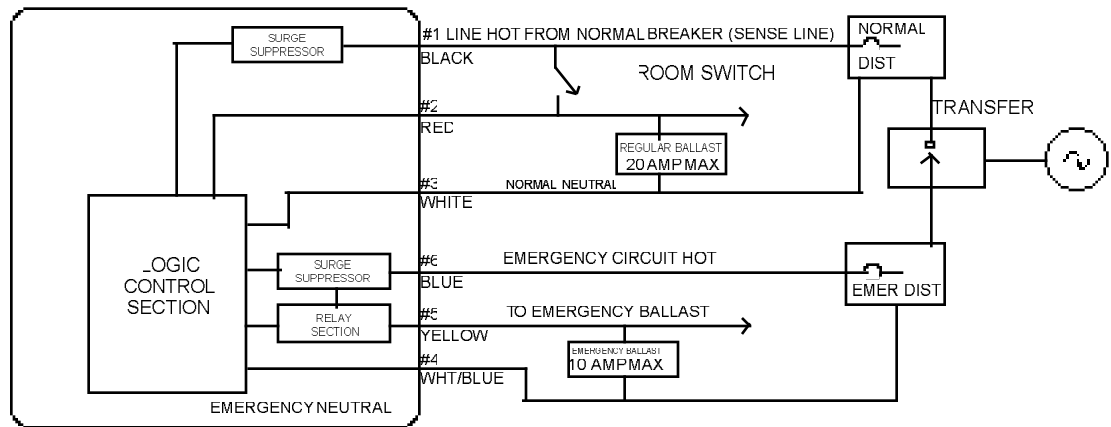
BLTC devices are not phase sensitive. Normal and emergency power can be of any phase combination. The BLTC-R uses normal power to control emergency power. Through the use of D.C. electrically operated relays with mechanically held contacts, BLTC-R devices are designed to operate reliably with a built in fail safe to on.

Warranty

Limited 5 year product replacement warranty.



BLTC-R BLOCK DIAGRAM



Certification

Conforms to UL924, meets all pertinent NEC, OSHA and NFPA Life Safety Codes.

Electrical

UL924 LISTED MAXIMUM EMERGENCY OUTPUT CONNECTED LOAD: 10 Amps at 60Hz, 120 or 277 volt (National Electric Code NEC 700-3).

- BLTC units use 30 Amp UL rated N.O. and N.C. contacts, de-rated to 10 Amp load for reliability. BLTC-R shall be able to withstand 10 direct shorts without permanent damage when connected to a 20 Amp breaker (NEC 700-5).
- BLTC units are D.C. controlled for more positive relay closure with 50,000 volts plus input surge protection.
- BLTC units have on board test switch for local inspection (NEC 700-4) and 3 separate *Status Indicators (NEC 700-7).

- BLTC units have UL 94V-0 Flame Rating.
- BLTC units have capability of withstanding 15% Under and Over Voltage and do not generate any objectionable or noticeable electrical or audible noise.
- BLTC-R units continually monitor the emergency distribution system demonstrated via LED indicators, and will force emergency power on in the event of device failure (NEC 700-6C and NFPA 1104-2.4.1).

*Status Emergency Light Indicators: Amber LED indicates presence of Normal Utility Power. Red LED indicates presence of Unswitched Emergency Power. Green LED indicates Test Switch is activated and will energize Emergency lamps (NEC 700-7).