# BLCD-20B

# bodine

## **Installation Instructions**

EMERGENCY LIGHTING CONTROL UNIT

FOR GENERATOR OR CENTRAL INVERTER SUPPLIED LIGHTING



## ! IMPORTANT SAFEGUARDS !

WHEN USING ELECTRICAL EQUIPMENT, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED, INCLUDING THE FOLLOWING:

# **READ AND FOLLOW ALL SAFETY INSTRUCTIONS**

- 1. Mount only to an approved electrical enclosure.
- 2. Do not use near gas or electric heaters.
- 3. Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
- 4. Use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- 5. Do not use this equipment for other than intended use.
- 6. Ambient temperature range is 32 122°F (0°- 50°C); Relative humidity range is 5 to 95%, noncondensing.
- 7. Maximum permitted load Ballast : 20A @ 120/277 VAC, 50/60 Hz

LED Driver : 20A @ 120/277 VAC, 50/60 Hz

Incandescent: 10A @ 120 VAC, 50/60 Hz

## SAVE THESE INSTRUCTIONS



WARNING: TURN POWER OFF AT CIRCUIT BREAKER BEFORE INSTALLING. ONLY QUALIFIED ELECTRICIANS SHOULD INSTALL THE BLCD-20B.

SERVICE BY QUALIFIED PERSONNEL ONLY

### DESCRIPTION

The BLCD-20B works in conjunction with an auxiliary generator or central inverter system. The unit allows lighting control devices for normal lighting to also control emergency lighting installed within the area. The BLCD-20B is designed for lighting control in areas where emergency lighting fixtures are connected on dedicated emergency lighting circuits that are typically ON 24 hours per day. The BLCD-20B allows ON/OFF control of the emergency lighting along with the normal room lighting to save energy. The intended operation of the BLCD-20B is to guarantee that the emergency lighting is ON whenever normal power to the controlled circuit is interrupted. While normal power is present, the BLCD-20B allows control of the emergency lighting by a device such as an occupancy sensor, a relay, a dimmer, or a wall switch.

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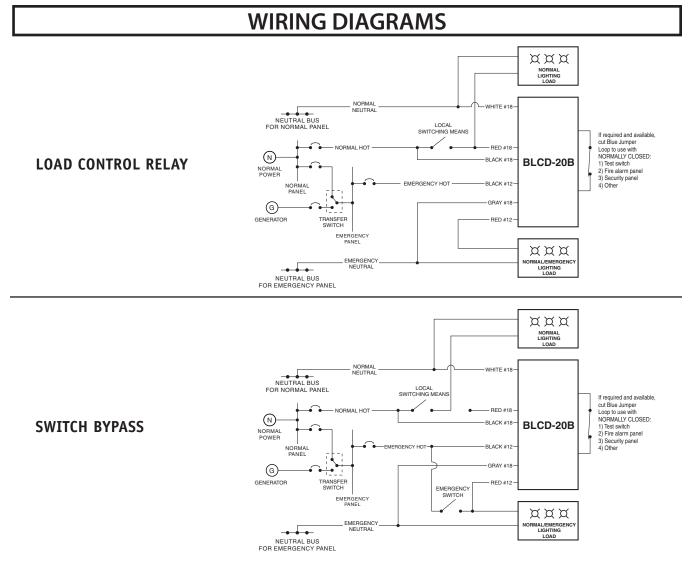


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#### WIRING REFERENCE TABLE

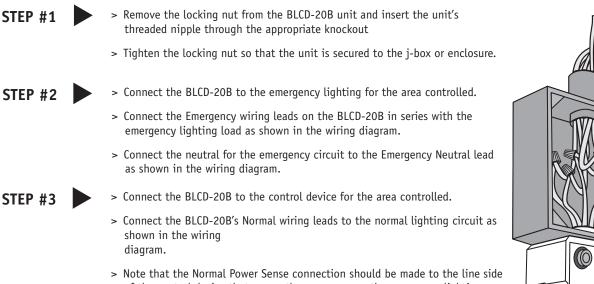
	AWG/COLOR
Emergency Power In	12/Black
Emergency Neutral	18/Gray
Emergency Power Out	12/Red
Normal Power Sense	18/Black
Normal Neutral	18/White
Normal Switch Sense	18/Red

- BLCD-20B units shall be installed in accordance with state, local and national electrical codes and requirements.
- BLCD-20B units are designed to attach to a junction box or electrical enclosures that are fitted with a 7/8" diameter opening (standard 1/2"knockout).
- BLCD-20B units operate with power provided by two sources. Place a warning label on each enclosure that contains a BLCD-20B unit.

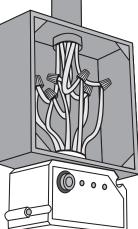


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### INSTALLATION PROCEDURE

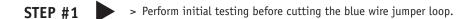


of the control device that serves the same area as the emergency lighting. This ensures that the emergency lighting in the controlled area turns ON during a localized power failure such as a tripped branch circuit breaker.



#### INSTALLING THE OPTIONAL REMOTE ACTIVATION DEVICE

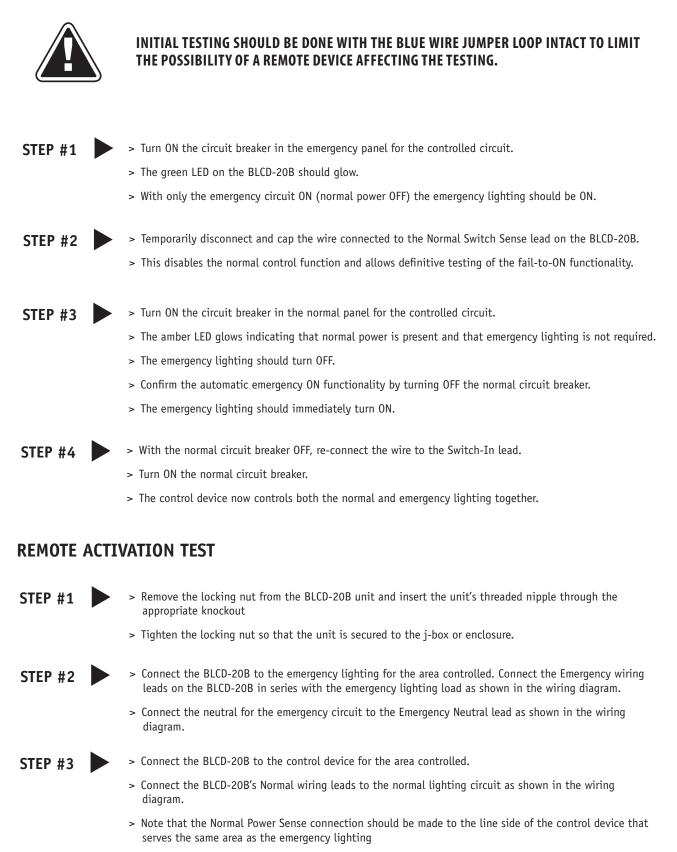
The BLCD-20B provides leads for connection of a remote device that can force the unit into the emergency ON mode. The leads are in the form of a factory installed jumper loop (blue wire) on the BLCD-20B. When the loop is complete, it disables this function. Do not cut this jumper unless remote activation is desired. The device that provides remote activation of the emergency ON mode must provide a normally closed, maintained contact dry contact closure. The remote device opens the contacts to force the BLCD-20B into the emergency ON mode. The most common remote device is a test switch that is installed in an accessible location. Alternately, the blue wire leads can be used to allow another system such as a fire alarm or security system to force the BLCD-20B into the emergency ON mode.



> Cut the blue wire jumper loop. **STEP #2** 

- Connect the two resulting leads on the BLCD-20B to the single pole contacts on the remote device or test **STEP #3** switch.
  - > The device must provide normally closed, maintained contact dry contact closure.
  - > The remote device opens the circuit in order to force the BLCD-20B into the emergency ON mode.





> This ensures that the emergency lighting in the controlled area turns ON during a localized power failure such as a tripped branch circuit breaker.