

# Zone Sensing ZCB Series

Project/Location: \_\_\_\_\_

Contractor: \_\_\_\_\_

Date: \_\_\_\_\_

Prepared by: \_\_\_\_\_

## Operation

The **ZCB (Zone Control Box)** option activates all of the emergency lighting if only one, multiple or all zones become de-energized through either a power failure or lighting circuit breaker tripping.

This greatly enhances the life safety system, as any failure of a lighting circuit will ensure emergency egress lighting.

A separate test button for each zone enables individual testing of each circuit monitored. The ZCB can be specified to be manufactured within a battery pack or in its own separate enclosure.

*NBCC 9.9.11.3.(3) Emergency lighting required in sentence (1) shall be designed to be automatically actuated when the electric lighting in the affected area is interrupted.*

*CEC46-304(4)(a) Unit equipment shall be:*

*(a) Installed in such a manner that it will be automatically actuated upon failure of the power supply to the normal lighting in the area covered by that unit equipment*

## Typical Specification

Each battery pack shall be provided with either internally or externally, zone sensing relays. These relays shall be pre-wired by the factory within the battery pack or pre-wired in their own enclosure. Each zone shall have it's own 'push to test' push button mounted on the side of the battery pack or in the case of a separate enclosure, on the enclosure door. Each zone push button shall be clearly identified to the corresponding branch lighting or exit circuit being monitored. Provide a minimum of two (2) spare zone circuits for future use. The zone sensing panel shall be equal to that of a Emergi-lite model ZCB-(number of zones)-(circuit rating)-(A.C. voltage of circuits and battery unit equipment)-(type of enclosure)-(options).

## How to specify or order

### ZCB -

Series	# of ccts (zones) or lighting panels monitored	circuit rating	AC voltage of circuits and battery unit equipment	Cabinet	Options
			120V 347V	<p><b>-INT</b> = ZCB supplied in battery pack enclosure</p> <p><b>-EXT</b> = ZCB supplied in its own EEMAC 1 enclosure</p> <p><b>-EXT-K</b> = ZCB supplied in its own EEMAC 12 (Dust Tight) enclosure</p> <p><b>-EXT-PK</b> = ZCB supplied in its own EEMAC 4 enclosure</p> <p><b>-EXT-XP</b> = ZCB supplied in its own Classified Area Use enclosure (class, division &amp; group must be specified)</p>	<p><b>PB</b> = push button zone testing</p> <p><b>PL</b> = pilot lamp per zone</p>

EXAMPLE: ZCB-4-15A120V-INT-PB

## Typical ZCB-4C-15A120V-EXT Wiring

