Emergency Power Control (CEPC) / Automatic Load Control Relay (ALCR) Specification

1 ELECTRICAL SPECIFICATIONS

1.1 The CEPC shall automatically illuminate connected emergency loads upon utility power interruption, regardless of room switch position. (NEC 700.24)

1.2 The CEPC shall include an automatic diagnostic which is initiated when the room switch is turned off. This test procedure will turn the emergency luminaires on for at least 2 seconds, indicating that an emergency power source is available & that the device, ballast, & lamp are all functioning correctly.

1.3 Automatic diagnostic shall be approved to meet periodic testing requirements (NEC 700.3 NFPA 101 7.9.3)

1.4 Local room switch or lighting control shall turn both regular & emergency luminaires on at the same time (no dedicated emergency room switch required).

1.5 The CEPC shall have a minimum load rating of 20 Amps at 120V or 277V, 1800W Tungsten at 120V & 1500W Tungsten at 277V, 1 HP, General Use 20 Amps.

1.6 The CEPC shall accept 120V & 277V 60 Hz Input & Output (voltage tolerance +/- 15%).

1.7 The CEPC shall include emergency power and regular power indicator LED’s and a manual test switch which are visible to room occupants when installed flush. (UL 924 Section 29)

1.8 The CEPC shall accept separate phases on the constant hot & switched hot inputs.

1.9 The CEPC shall include high voltage input surge protection up to 50,000V.

1.10 Load contacts shall be able to withstand 10 direct shorts while connected to 20 Amp breaker without permanent damage.

1.11 The CEPC shall not generate any objectionable electrical or mechanical noise.

2 MECHANICAL SPECIFICATIONS

2.1 The CEPC shall mount inside a 4 11/16" junction box with an extension & single gang plaster ring.

2.2 The CEPC shall be installed flush to the ceiling so that test switch & LED’s are in plain view of room occupants as required by some local electrical codes.

2.3 The CEPC shall have UL 94-V0 or UL 94-5VA flame rating & be approved for installation above the suspended ceiling.

2.4 Enclosure shall be white.

2.5 Dimensions: Flush plate: 4 3/4" x 2 3/4" x 1/4"; Recessed body: 2 7/8" x 1 3/4" x 1 3/4".

3 GENERAL SPECIFICATIONS

3.1 The CEPC shall be UL 924 listed.

3.2 Warranty shall be 5-year replacement warranty.

3.3 The CEPC shall comply with all N.E.C., N.F.P.A, OSHA, & local safety codes.
Emergency Power Control for Dimmable Emergency Fixtures (CEPC-D) Specification

3 ELECTRICAL SPECIFICATIONS

3.1 The CEPC-D shall automatically illuminate connected emergency loads to full brightness upon utility power interruption, regardless of switch/dimmer position. (NEC 700.24)

3.2 The CEPC-D shall be compatible with 2-wire, 3-wire, 0-10V, & DALI dimming systems & ballasts.

3.3 The same local room switch, dimmer, or lighting control shall dim both regular & emergency luminaires at the same level during normal operation.

3.4 The CEPC-D shall have a minimum load rating of 20 Amps at 120V or 277V, 1800W Tungsten at 120V.

3.5 The CEPC-D shall accept (120 or 277V) 60Hz Input & Output (voltage tolerance +/- 15%).

3.6 The CEPC-D shall include emergency power & regular power indicator LED’s & a manual test switch which are visible to room occupants when installed flush. (UL 924 Section 29)

3.7 The CEPC-D shall accept separate phases on the regular hot, emergency hot, and dimmed hot inputs.

3.8 The CEPC-D shall include high voltage input surge protection up to 50,000V.

3.9 Load contacts shall be able to withstand 10 direct shorts while connected to 20 Amp breaker without permanent damage.

3.10 The CEPC-D shall not generate any objectionable electrical or mechanical noise.

4 MECHANICAL SPECIFICATIONS

4.1 The CEPC-D shall mount inside a 4 11/16” junction box with an extension & double gang plaster ring.

4.2 The CEPC-D shall be installed flush to the ceiling so that test switch & LED’s are in plain view of room occupants as required by some local electrical codes.

4.3 The CEPC-D shall have UL 94-V0 or UL 94-5VA flame rating & be approved for installation above the suspended ceiling.

4.4 Enclosure shall be white.

4.5 Dimensions: Flush mounted size: 6” x 6” x 1/4”; Body size: 4 1/4” x 4 1/4” x 1 1/2”.

5 GENERAL SPECIFICATIONS

5.1 The CEPC-D shall be UL 924 listed.

5.2 Warranty shall be 5 year replacement warranty.

5.3 The CEPC shall comply with all applicable N.E.C., N.F.P.A, OSHA, & local safety codes.