MODEL EPC-1-D-HV

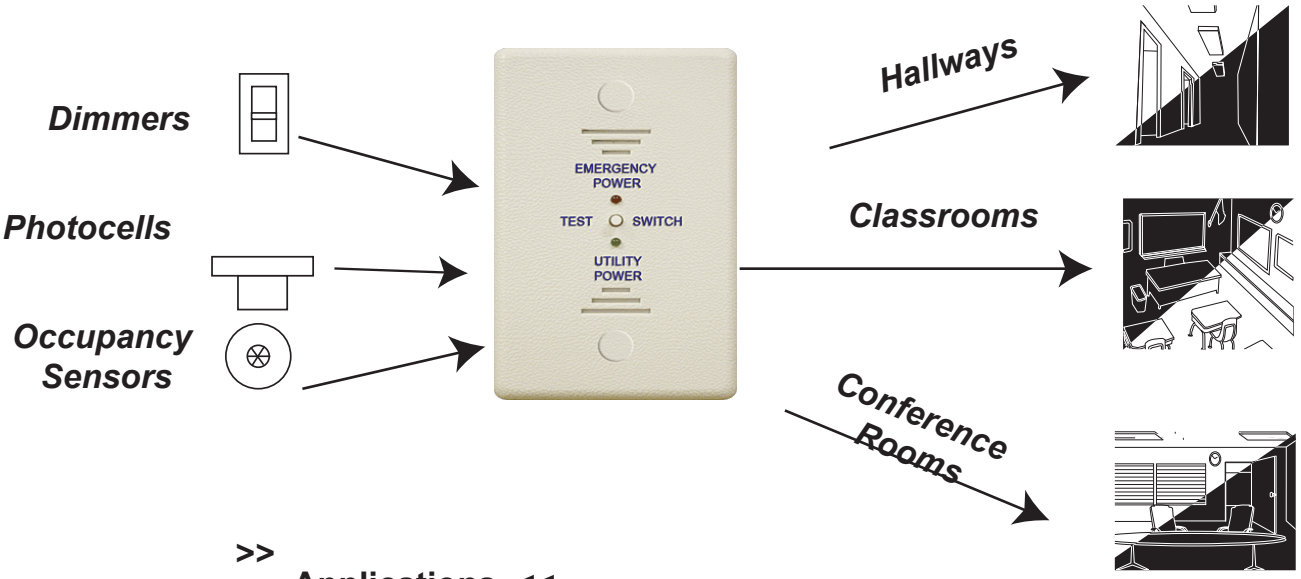
UL924 LISTED
EMERGENCY LIGHTING EQUIPMENT

Heavy Duty Emergency Power Dimmer Control

Automatic Diagnostic and Manual Test Features

FOR 4 WIRE DIMMABLE LOADS (0-10V and Low Voltage Digital Dimming)

Save maximum energy through dimming & still meet safety codes during power failure



>> Applications <<

Model EPC-1-D-HV allows switching & dimming of designated emergency luminaires during normal operation & automatically brings emergency luminaires to full brightness during a utility power interruption.

- 0-10V Dimming Controls
- Low Voltage Digital Dimming Systems including DALI, and others.

Active 0-10V / Digital Override Universal Compatibility

Actively drives emergency loads to full bright during power interruption and testing, ensuring compliance with code and compatibility with all controls and loads without the need for an additional 20A branch transfer switch.

Selectable Automatic Testing Features

Field-selectable 2.5 sec automatic diagnostics checks emergency source, EPC-1-D-HV, driver, and lamp(s). **Eliminates Manual monthly testing and is approved for this purpose.** *May also be configured for monthly testing only.*

Integral Test Switch & LED Status Indicators

Integral test switch for easy initial footcandle verification

Power indicator LED's verify wiring & simplify troubleshooting

Power Supervision Redundancy

Emergency luminaire and red supervision LED will not illuminate if emergency supply is disconnected during normal operation

Provides Immediately Visible warnings

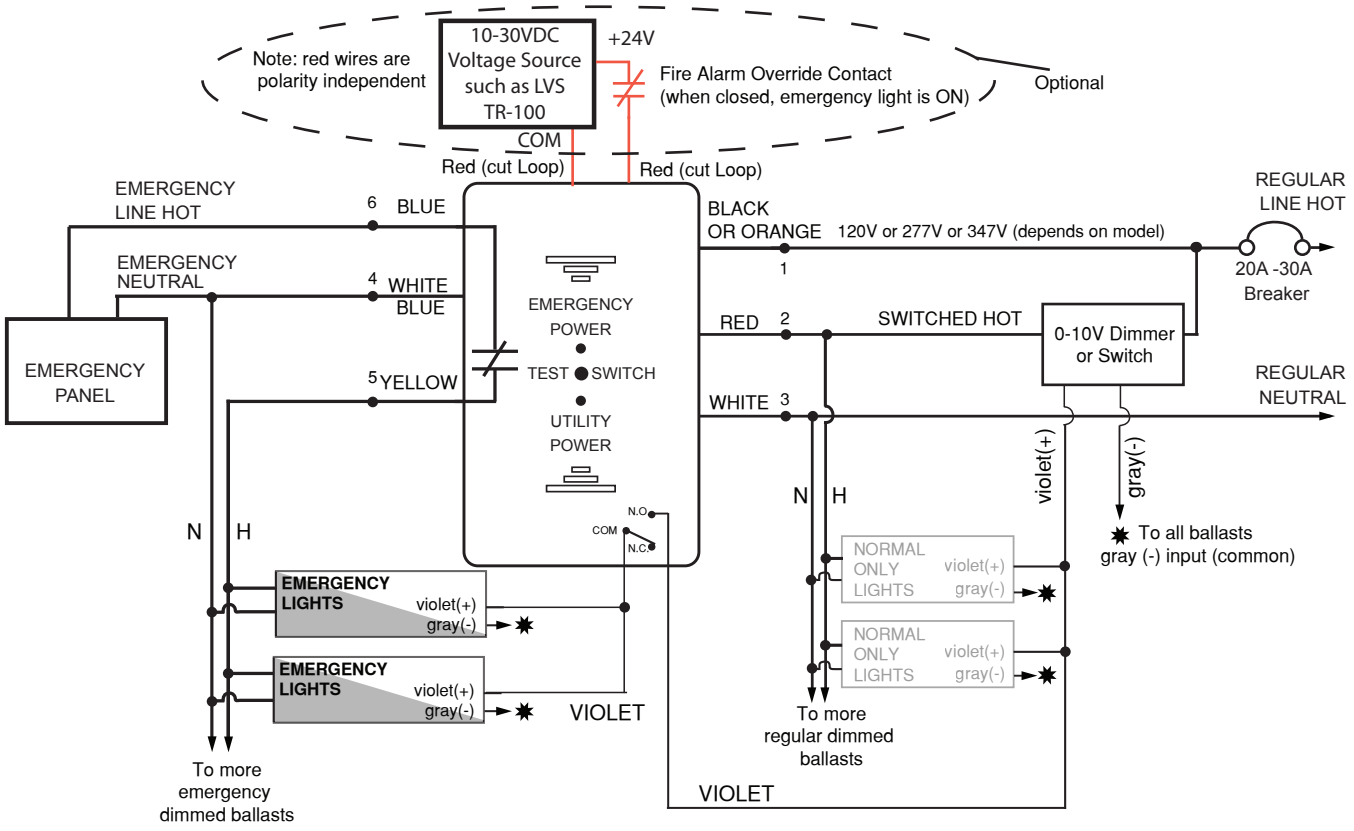
LVS Emergency Power Controls are tested, approved, and listed by Underwriters Laboratories under UL 924 standards for designated emergency light fixture controls. They meet and exceed all pertinent code requirements from NEC, NFPA, OSHA, and life safety codes, in addition to major local codes.

All model EPC-1-D-HV units are tested during production and burned in upon completion.

5 YEAR LIMTED WARRANTY

LVS, Inc. 2555 Nicholson St., San Leandro, CA 94577
Tel: 1-800-982-4587 Fax: 1-510-352-6707 www.lvscontrols.com

Model EPC-1-D-HV Emergency Lighting Control Wiring



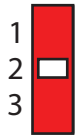
NOTE: Normal only lights are optional.

Theory of Operation

During normal operation, the dimmer will control both the regular and the emergency lights together. During a regular power interruption, the emergency lights will be ON and the violet wire is interrupted, ensuring the emergency lights are at 100% (full) brightness.

Slide Switch Options

No Monthly/Annual Automatic Test
No Automatic Diagnostic on switch turn off



No Monthly/Annual Automatic Test
Yes 2.5 second Automatic Diagnostic on switch turn off

Yes Monthly/Annual Automatic Test
No Automatic Diagnostic on switch

Electrical Specifications

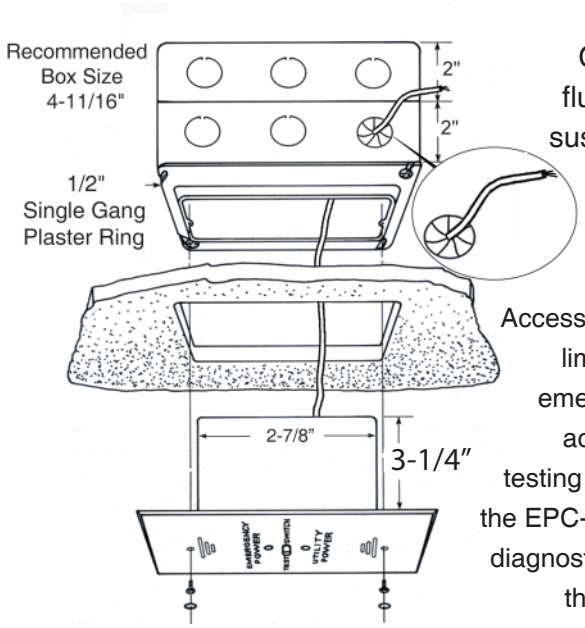
120V or 277V or 347V Sensing Input ,
120V-347V Load

16 Amp Electronic Ballast Load (120-277V)
15A Ballast Load (347V)
20A Ballast Load (120-277V)
20A General Use (120-347V)
1800W (120V) 4200W (277V) Tungsten
Voltage Surge Protection
cUL and usUL listed to UL924

Mechanical Specifications

Shipping Weight: 12 oz | Color : White
Temperature: 14˚F - 140˚F
Flush Mounted Size: 4-3/4" x 2-3/4" x 1/4"
Body Size: 2-7/8" x 1-3/4" x 3-1/4
UL94-5VA Rating: Safe for installation above the suspended ceiling.
Suitable for installation in the plenum (Tested to UL2043)

Mounting



Can be mounted flush or above the suspended ceiling *

Accessibility requiements limit the mounting of emergency controls to accessible areas for testing reasons, however the EPC-1-D-HV automatic diagnostic exempts it from these requirements.

Initial Testing, Troubleshooting & Maintenance of EPC-1-D-HV

In a new installation, where 10 or 100 separate devices may be used, each having as many as 14 wires to be correctly connected, it is important that a fast convenient method is used to check the connections. In order to test that the wires are connected correctly, without any inconvenience to other occupants, do not turn off regular utility supplied power or turn on the emergency generator until you have checked each EPC-1-D-HV device and light fixtures using the following methods.

When room switch is on & dimmer is at full-bright setting, emergency & regular fixtures should be illuminated at full-bright.

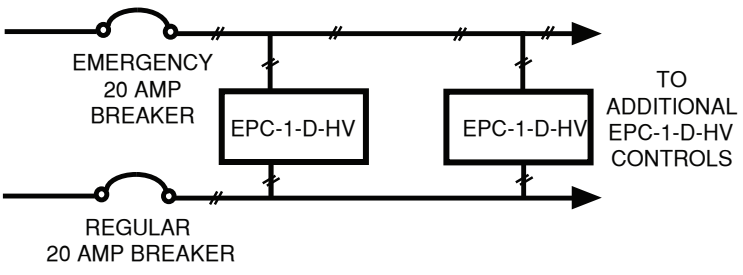
1) To test normal operation, ensure branch circuit breaker is connected and utility power is available. If green LED is not illuminated, confirm wiring connections and continuity to branch panels.

2) To test emergency operation, turn room switch to "OFF" position. Press and hold test button and ensure emergency lights are illuminated. Depending on DIP switch setting, red LED may be on at all times, or only sometimes, this is normal. (Default is red LED on at all times).

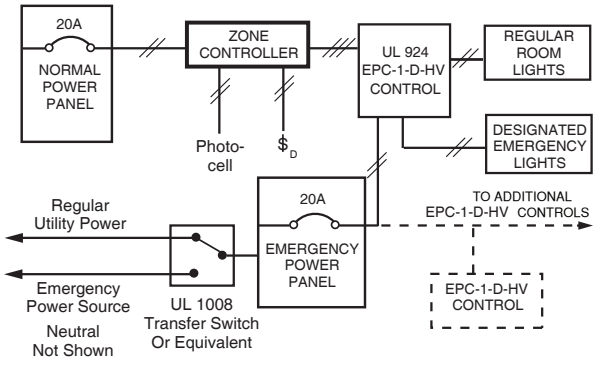
No maintenance is required to keep the EPC-1-D-HV functional. However, regular testing should be performed when the lamps or ballasts have been replaced or when facility remodeling has taken place.

Single Line Drawings

On a 20 Amp circuit, 1 Model EPC-1-D-HV can control up to 20 Amp of emergency lighting load, or 20 emergency power controls can each control 1 amp of emergency lighting load.



STANDARD ZONE CONTROLLER LINE DRAWING



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