



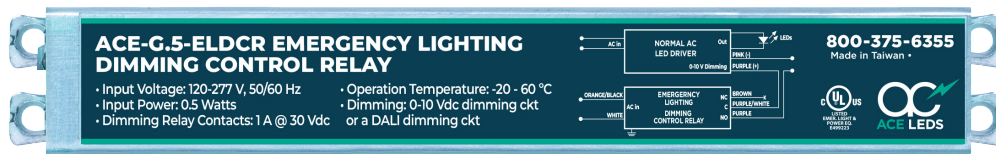
**Input Voltage 120-277 V**

**ACE-G.5-ELDCR  
Emergency Lighting Dimming Control Relay**



**Primary Specifications:**

Input Power Max	Input Current Max	Dimming Relay Contacts	Operation Temperature
0.5 W	3 mA @ 120 Vac	1 A @ 30 Vdc	-20 - 60 °C



**Description:**

The **ACE-G.5-ELDCR** is a UL 924 device that includes a relay which controls the dimming circuit of an LED driver in Emergency-mode. The device can control a 0-10 Vdc dimming circuit or a DALI dimming circuit. The **ACE-G.5-ELDCR** is intended for mounting inside the luminaire. The AC input of the **ACE-G.5-ELDCR** connects to the unswitched Normal source of power to monitor for a power failure. Under Normal-mode conditions the **ACE-G.5-ELDCR** is powered "ON," and the Dimming Control Relay is thus energized, which allows the dimming circuit to operate as normal. Under Emergency-mode conditions, when there is a failure of the Normal source of power, the **ACE-G.5-ELDCR** is de-energized which defeats the dimming circuit and forces the LED Driver into Full Light Output.

**Additional Specifications:**

Surge protection: .....3 kVp  
 Maximum case temperature Tc: .....60 °C  
 Metal enclosure IP rating:.....IP30  
 Weight.....0.13 lb  
 Dimensions:.....5.5 in L x 0.75 in W x 0.75 in H

\*Warranty: 5 years based on a maximum case temperature of ≤ 60 °C, 3 years warranty based on a maximum case temperature of ≤ 70 °C

**5-Year USA-Backed Warranty\***  
 See complete AC Warranty information for details

**Safety and Regulatory Compliance:**

- UL and cUL Listed as an Emergency LED Driver (UL924)
- UL Listed for both field and factory installation
- EMI: Complies to FCC commercial limits
- RoHS compliant

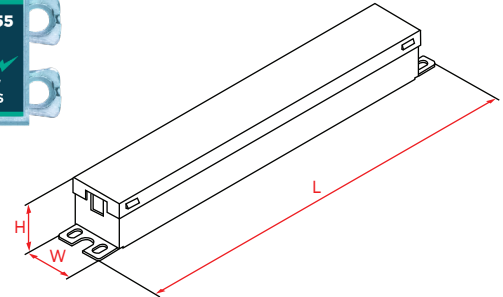
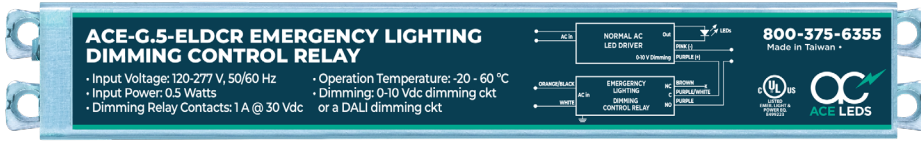
**Features, Benefits, and Applications:**

- Small size and light weight: Enables mounting inside small fixtures.
- Includes an isolated SPDT Relay: Can be used with 0-10 Vdc dimming or DALI dimming circuits.
- Includes AC input surge protection: For improved reliability.
- Two-wire universal input: Reduces wiring errors and reduces installation time and complexity.
- Includes low-power high-efficiency AC input circuitry: For low energy consumption.
- Suitable for indoor and damp locations.

For questions or to place an order contact us at [oemsales@aceleds.com](mailto:oemsales@aceleds.com) or 800-375-6355 or your local WPG American Sales representative at [inquiry@wpgamericas.com](mailto:inquiry@wpgamericas.com) or 888-WPG8881



# ACE-G.5-ELDCR Emergency Lighting Dimming Control Relay



Lead Lengths			
Orange/Black	5.9"	Purple/White	5.9"
White	5.9"	Purple	5.9"
Brown	5.9"		

Dimensions			
Length	5.5"	Height	.75"
Width	.75"	Mounting Length	5.2"

### INSTALLATION:

The **ACE-G.5-ELDCR** Emergency Lighting Dimming Control Relay is intended for mounting inside an electrical enclosure such as a luminaire and may be used to control either a 0-10 Vdc dimming circuit or a DALI dimming circuit. The AC input of the **ACE-G.5-ELDCR** must be connected to the unswitched Normal source of power to monitor

for a power failure. The **ACE-G.5-ELDCR** must be installed where the ambient temperature is within the operating range of -20 °C to 60 °C. The **ACE-G.5-ELDCR** comes in a single metal enclosure. The **ACE-G.5-ELDCR** is suitable for installation in sealed and gasketed fixtures.

### Specifications:

Emergency lighting Dimming Control shall be provided using the AC Electronics **ACE-G.5-ELDCR** Emergency Lighting Dimming Control Relay. The **ACE-G.5-ELDCR** is intended to be used to control either a 0-10 Vdc dimming circuit or a DALI dimming circuit. The **ACE-G.5-ELDCR** shall contain a high-efficiency power failure monitor circuit for sensing and detecting a failure of the Normal source of power, a Single-pole Double-through (SPDT) relay for controlling either a 0-10 Vdc dimming circuit or a DALI dimming circuit, and relay control circuitry to activate the SPDT dimming relay, all contained in a

single metal enclosure. The **ACE-G.5-ELDCR** shall have lead wires for connecting the **ACE-G.5-ELDCR**. The **ACE-G.5-ELDCR** shall have a maximum of 0.5 W input power and shall comply with emergency lighting standards established by the current NEC. The nominal AC input voltage range shall be from 120 Vac to 277 Vac, 50/60 Hz. The **ACE-G.5-ELDCR** shall comply with part 15 of the FCC Rules. The **ACE-G.5-ELDCR** shall be UL Listed for field or factory installation. The **ACE-G.5-ELDCR** is suitable for indoor and damp locations.

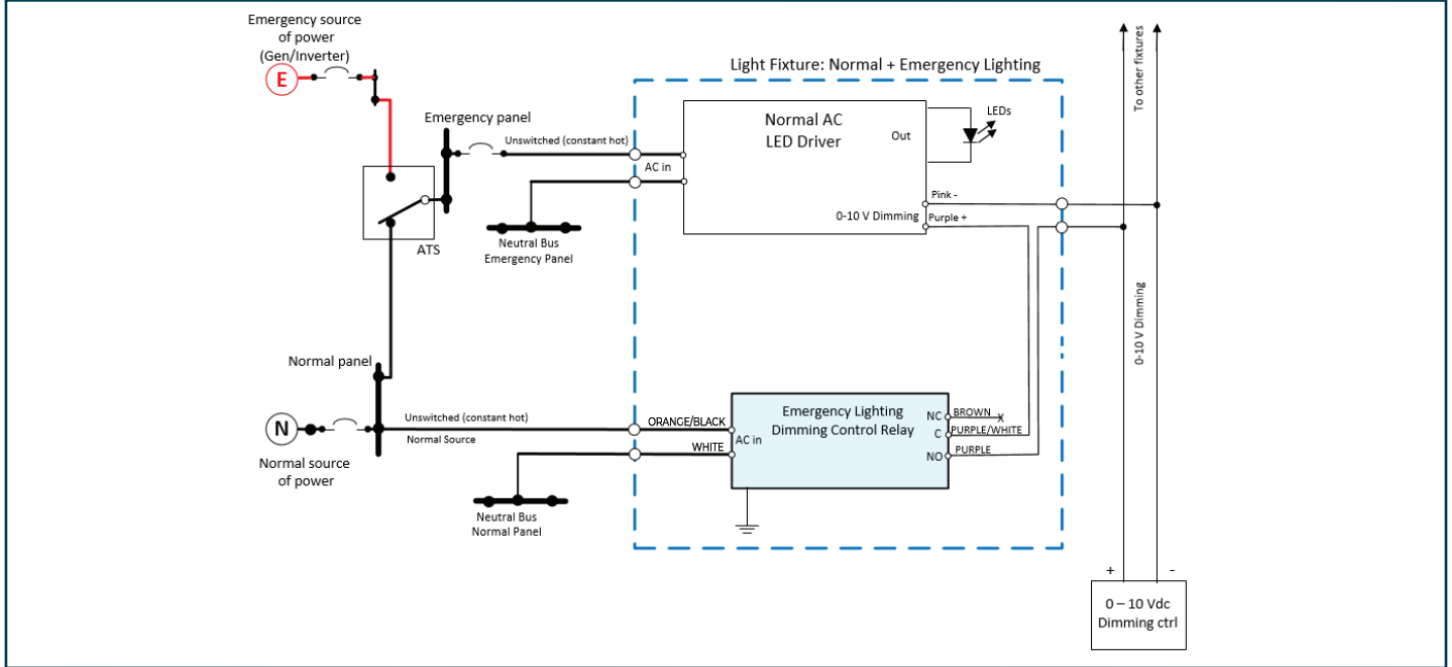
For questions or to place an order contact us at [oemsales@aceleds.com](mailto:oemsales@aceleds.com) or 800-375-6355 or your local WPG American Sales representative at [inquiry@wpgamericas.com](mailto:inquiry@wpgamericas.com) or 888-WPG8881



# ACE-G.5-ELDCR Emergency Lighting Dimming Control Relay

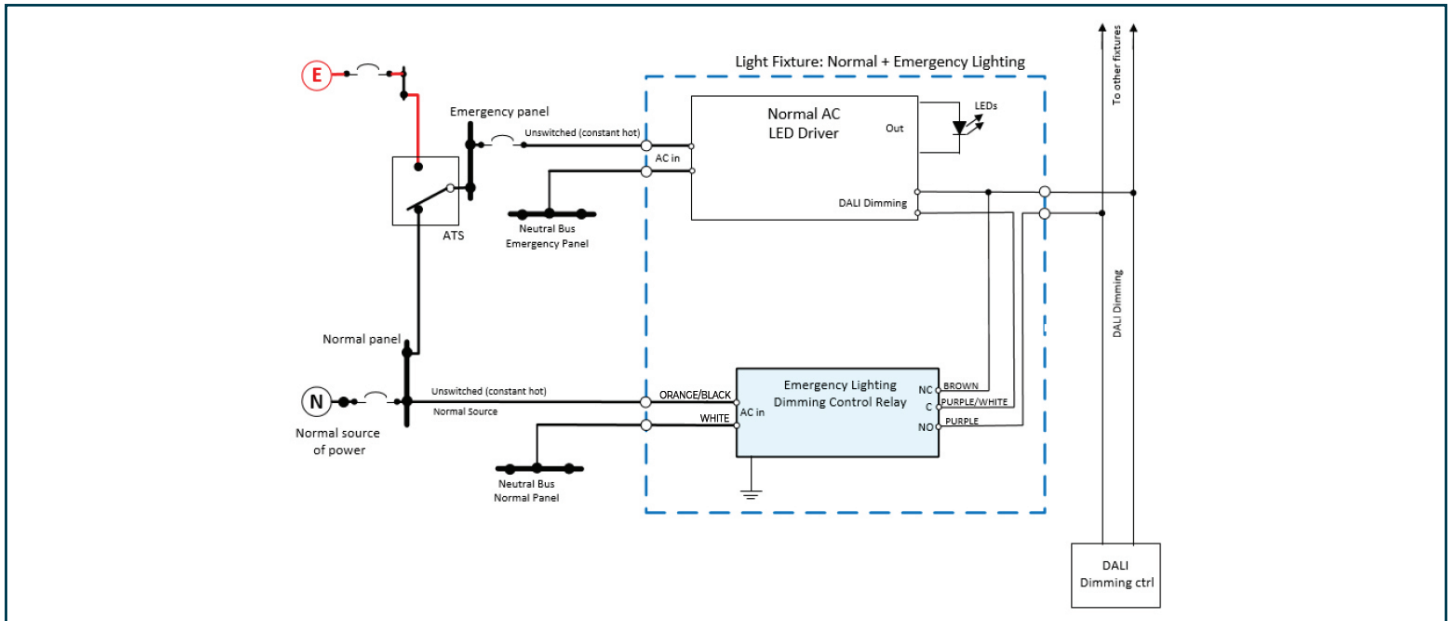
## STYLE A

### (WIRING DIAGRAM FOR USING THE ELDCR FOR A 0 – 10 VDC DIMMING SYSTEM)



## STYLE B

### (WIRING DIAGRAM FOR USING THE ELDCR FOR A DALI DIMMING SYSTEM)



\*AC Electronics/AC LED Power Designs warrants to the purchaser that each EMB Driver will be free from defects in material or workmanship for a period of 5 years when operated at max case temp of up to <60°C when properly installed and under normal conditions of use. See [aceleds.com](http://aceleds.com) for complete warranty policy.

For questions or to place an order contact us at [oemsales@aceleds.com](mailto:oemsales@aceleds.com) or 800-375-6355 or your local WPG American Sales representative at [inquiry@wpgamericas.com](mailto:inquiry@wpgamericas.com) or 888-WPG8881