



## **Application Guide: Emergency lighting applications with the Area Lighting Controller (TAC-001)**

### **Overview:**

Installations involving emergency lighting require careful planning and consideration to ensure all applicable codes and regulations are satisfied and adequate egress lighting is provided in the event of a power loss.

For emergency lighting applications, it is recommended to use a UL listed UL924 automatic bypass type device in combination with the TAC-001.

One example provided below utilizes the Hubbell ACLR1277.

The ALCR features an internal relay with normally closed contacts for the emergency power and normally open contacts for the 0-10V dimming control.

In emergency operation, the ALCR1277 connects power and disconnects dimming control.

In normal operation, the ALCR monitors the switched output of the TAC-001 to determine if the power should be switched on or off.

### **Required devices:**

- Area Lighting Controller (model: TAC-001)
- UL924 automatic emergency bypass device (model: ALCR1277)

### **Limitations:**

- Specifically for applications with un-switched emergency circuits. A different approach is required for applications with battery backups.

- Energy for the load is switched by the ALCR1277. For this application, the TAC-001 is only used as a switch signaling device. As a result, the load is limited to 15A and 120/277VAC per the ALCR1277. Additionally, the energy monitoring capabilities of the TAC-001 cannot be leveraged.

### **Wiring Example:**

Before wiring devices, consult the full installation instructions provided with the Toggled iQ Area Lighting Controller (TAC-001) and the ALCR1277.

