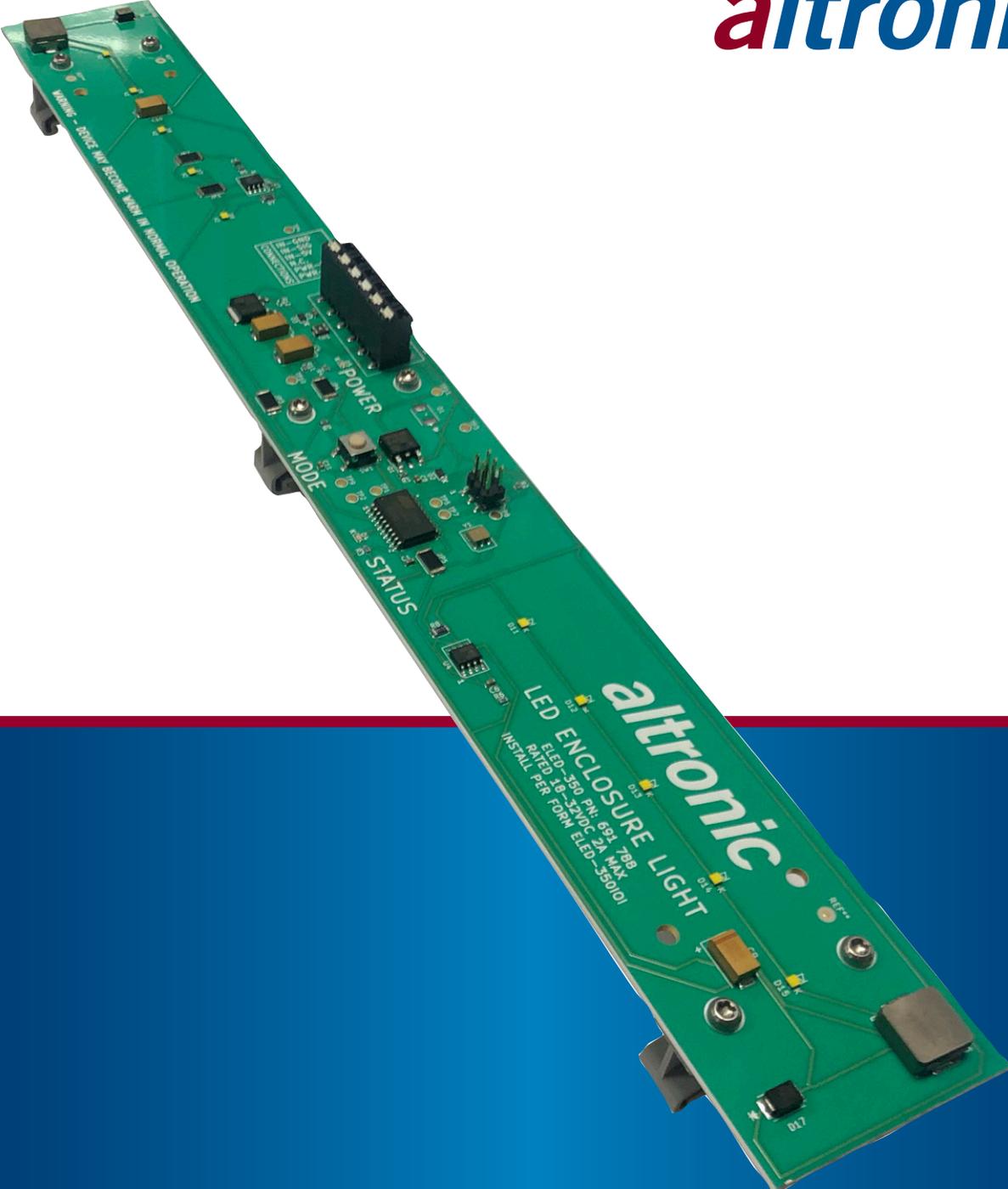


# Installation Instructions

Altronic Panel Light ELED-350

Model 691788

Form ELED-350 II 3-21



## 1.0 Overview

- 1.1 This manual provides installation instructions and operating information for the Altronic Panel Light ELED-350, model 691788. It is recommended that the user read this manual in its entirety before commencing operations. This advice is intended to help the end user install the Altronic ELED-350 in such a manner to reduce the risk of accident to personnel or to equipment.
- 1.2 The ELED-350 is a light intended for illuminating a control panel or other electrical enclosure, and designed to meet Class 1 Div 2 requirements. It offers up to 1000 lumens adjustable via push button as well as automatic operation from a remote mounted sensor/switch or other detection means.

Voltage Input : 18-32VDC

Current consumption: 2A max

Operating Temp: -40C to +80C

**WARNING:** As a precaution do not look directly into the LEDs at any time.

## 2.0 Installation

- 2.1 The ELED is intended to be DIN rail mounted at an angle for light diffusion. It must be in a suitable environmental protection enclosure, and is not intended to be installed in an open environment.
- 2.2 For intended operation, a device-mounted push button is available to turn the light on/off and adjust its brightness. Additionally, there is a connection for external interface options. This can be accomplished by utilizing any electrical switch mechanism that applies 5VDC or ground to the IN-SIG pin of the ELED-350. Most common applications will use a magnetic-based switch sensor, where the switch is mounted to the enclosure and the magnet is mounted to a door. Altronic optionally supplied switch/magnet has a maximum allowable air gap of 3/8" or less.

## 3.0 Wiring

### 3.1 Connection overview

A six pin connector is PCB mounted on the ELED-350 for power input as well as for the remote sensing option. It has spring-cage connections for push in operation with a tab for release.

Wire connections

- PWR-24 = 18-32VDC Positive power in
- PWR-GND = 18-32VDC Reference power in
- NC = (not used at this time)
- IN-5V = +5V Supply to remote sensing device
- IN-SIG = Remote switch input
- IN-GND = Ground

### 3.2 Power Wiring

All power wiring shall be in accordance with National Electric Code and using best wiring practices. The ELED-350 is suitable for Class 1 Division 2 Group D locations. For panel protection a 3A fuse is recommended to be installed in the Positive power connection. When installing in a hazardous approved area a Class II power supply is recommended.

### 3.3 Sensor Wiring

The IN-SIG terminal should never be left open, and, if not being used, connected to ground (light is off). To use the remote signal operation, the IN-5V and IN-GND can be used to power any device. IN-SIG shall be wired to any device that can connect it to ground or 5V for turning the ELED-350 on and off.

**NOTE:** When using ON/OFF sensor 615741, wiring is as follows:

**IN-5V: RED**

**IN-SIG: BLUE**

**IN-GND: BLACK**

## 4.0 Operation

### 4.1 Remote Sensor Operation

Senses whether the remote signal has been activated by using any mechanism that grounds the remote switch input. When using the Altronic supplied Remote ON/OFF Sensor and Sensor Magnet, the presence of the sense magnet turns off the ELED-350, while the absence of the magnet turns the ELED-350 on.

### 4.2 PCB switch

A switch is mounted on the light for additional operation. This is afforded through long presses and short presses as described below.

At any time, the button can be held for greater than 3 seconds and the light will transition from ON/OFF or OFF/ON.

Additionally if the light is turned off using the button, the door switch can be closed and the light stays off. Once the door switch is opened again the light is in normal operation of opening and closing the door to turn the light ON/OFF respectively.

Short presses are available to change the brightness settings and must be accomplished while light is on. A short press is defined as less than 1 second. Once the button has been inactive for greater than one second the brightness level is locked in. Five levels of brightness are possible. One being the least bright and five being the most bright.

**PRESS < 1 SEC → INACTIVE > 1 SEC = Brightness 1**

**PRESS < 1 SEC, PRESS < 1 SEC → INACTIVE > 1 SEC = Brightness 2**

**PRESS < 1 SEC, PRESS < 1 SEC, PRESS < 1 SEC → INACTIVE > 1 SEC = Brightness 3**

**PRESS < 1 SEC, PRESS < 1 SEC, PRESS < 1 SEC, PRESS < 1 SEC → INACTIVE > 1 SEC = Brightness 4**

**PRESS < 1 SEC, PRESS < 1 SEC, PRESS < 1 SEC, PRESS < 1 SEC, PRESS < 1 SEC → INACTIVE > 1 SEC = Brightness 5**

### 4.3 Light Operation

Any time the brightness has been changed the ELED-350 will turn back on to that brightness level from either a door switch event, or if the power has been cycled.

During a turn on event, either from a door event or a power cycle, the light has a soft on feature. This is a fixed event.

**NOTE:** Once a brightness level is locked in, a short press of the button starts back at brightness 1.

## 5.0 TO ORDER

ELED-350 Panel Lighting Device .....	691788-1
Sensor Magnet .....	615740
On/Off Sensor Flange Mount with 3' Cable.....	615741