



Catalog #: _____ Project: _____

Prepared By: _____ Date: _____ Type: _____

AirLinkTMenabled by **SYNAPSE**

Wireless Lighting Controller (ALSC UNV)



STAND-ALONE CONTROLS

The ALSC-UNV is a California Title 24 compliant lighting controller that provides real-time light monitoring and control with utility-grade power monitoring. It includes a 24V sensor input and power supply to connect up to two (2) sensors into the outdoor AirLink wireless lighting system. The controller is typically installed inside of a fixture.



FEATURES & SPECIFICATIONS

Construction

- Seamlessly integrates into the outdoor AirLink wireless lighting control solution and self-healing mesh network
- Direct connect up to two (2) 24V occupancy sensors and photocontrols (consult LSI Technical Support for compatible list)
- Provided in a metal cased version with quick connect terminal blocks

Electrical

- Class 1/2 0-10V dimming control
- Input power: 100–277 VAC +/- 10% (Max 305V) 50/60 Hz
- Load rating: 5A @ 100V to 277V (+/- 10%)
- Dimming: 0–10V control; Output: Class 1/2 - 20mA Source Max / 50mA Sink Max
- Sensors inputs: 0–10V (photocontrol sensors), 0–24V (all other sensors); Sensor power supply: 24VDC @ 50mA
- Relay closes on power loss.

Controls

- True On/Off functionality via switched relay
- 2% utility grade power monitoring
- RF Range — 1,000ft line-of-sight between controllers
- Secure, over-the-air upgrades to support future enhancements
- Switched output: Default ON; Zero Cross Switching
- Lights default to on for safety

Installation

- Supports a wide range of LED drivers and fixtures
- Operating environmental: -40°F to 131°F (-40°C to 55°C)
- Dimensions: 8.2" L x 2.3" W x 1.3" H (209mm L x 59 mm W x 33 mm H) without antennas

Warranty

- 5-year warranty

Listings

- UL Listed
- FCC
- CE
- IC
- Title 24 Compliant; see local ordinance for qualification information.

ORDERING GUIDE

Catalog Number	Description	Part Number
ALSC UNV	AirLink Synapse- Controller 120-277	661408





Wireless Lighting Controller

Wiring Guide

Wiring Information	
Class 1	
Line	Black
Neutral	White
Load	Red
Class 1 or 2	
-10V Dim+	Purple
0-10V Dim-	Gray
Class 2	
Sensor In	Blue
Sensor Power	Brown
Sensor Com	White/Blue

Class 1 Terminal Block (accepts 12–28 AWG wires)

Neutral: AC Return
Line: 100–277 VAC (+/- 10%)
Load: Switched AC Load

Class 1/2 Terminal Block (accepts 18–20 AWG wires)

1–10V: Dim +
Common: Dim–

Class 2 Terminal Block (accepts 18–20 AWG wires)

0–24V Input: Sensor input
N/C: Do not connect
Common: Sensor DC Return
N/C: Do not connect
+24 VDC: Sensor power supply
Common: Sensor power supply return

LED Indicators

Power LED: Power On
Status1 LED: Reserved for future use
Status2 LED: Relay status - On/Off

