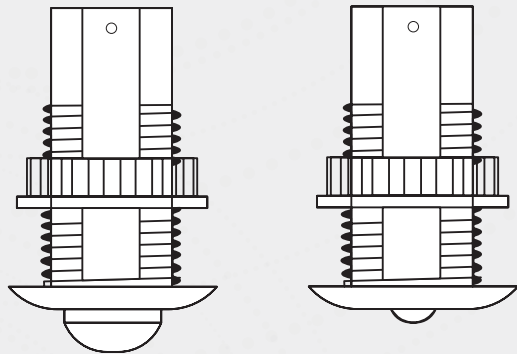


QUICK INSTALLATION SHEET



Model #: A630



A630M-ZB

Dimming US & CN Class 2
Dimming 0-10V Analog
Control - Zigbee
ON/Off (via Dim)
Photosensing
Occupancy

A630C-ZB

Dimming US & CN Class 2
Dimming 0-10V Analog
Control - Zigbee
ON/Off (via Dim)
NO photosensing
NO occupancy

2

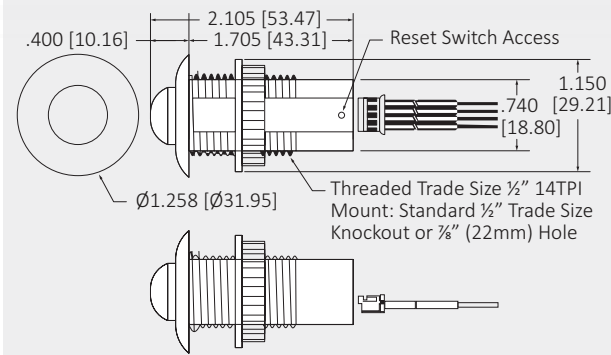


- ❑ Turn power OFF at the circuit breaker before installing the sensor.
- ❑ Sensor must be installed and used in accordance with appropriate electrical codes and regulations.
- ❑ Installation to be performed by a qualified and trained electrician.
- ❑ Verify there is a minimum 4 ft. (1.2 m) clearance from heat sources that may disturb sensing.

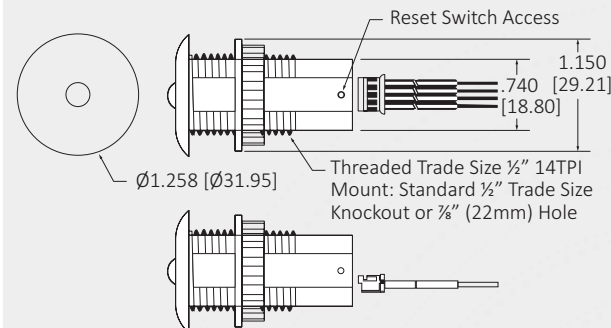
3

Mechanical Dimensions: Inch [mm]
Material: 5VA PC Plastic Case
Weight: 47 Grams (1.66 oz.) Typical

A630M-ZB



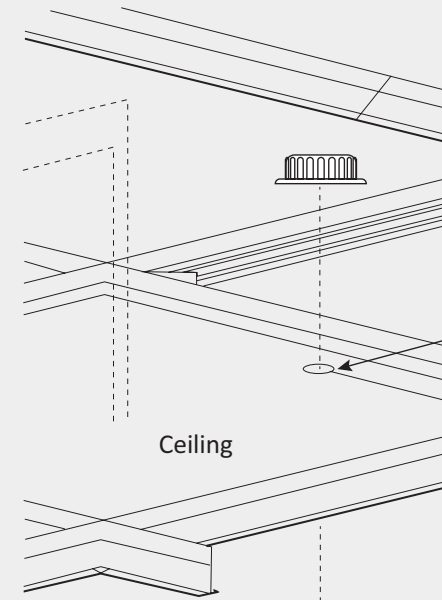
A630C-ZB



4

MOUNTING

The Wireless Sensor can be mounted through drop ceiling tiles or in commercial lighting fixtures such as troffers, suspended linears, and surface mounts.



Ceiling

S630M-ZB

S630C-ZB

MOUNTING (OPTIONAL COMPONENT)

Hard Surface

Optional Component

A630M-ZB

A630C-ZB

5

COMMISSIONING

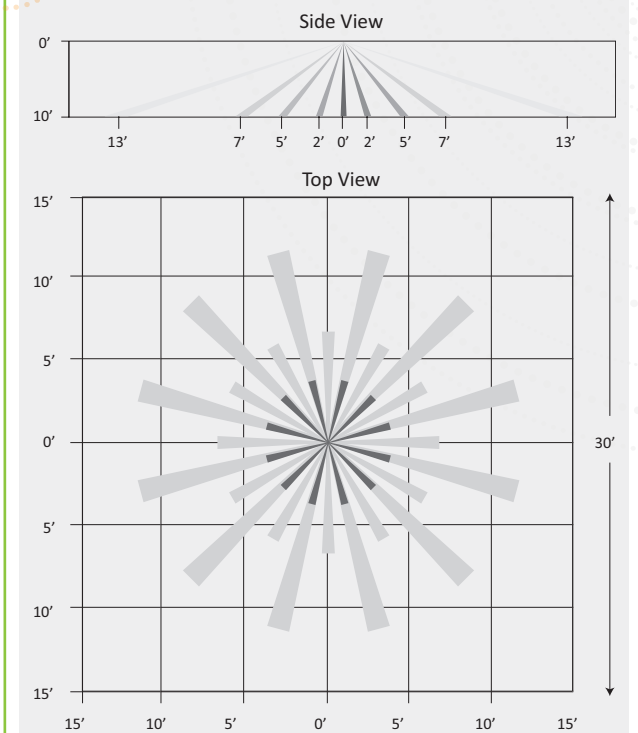
Setup and adjustments are performed through EnergyCenter. EnergyCenter allows for adjustment of motion sensitivity, standby/dimming time delays, and dimming level. Further automations are possible when ambient light level and temperature sensor endpoints are utilized.

OPERATION

After it is commissioned with a Autani Manager and/or core, the sensor can be programmed to apply 100% dimming to Dim-to-off compatible 0-10V dimmable lights when motion is detected. When movement is no longer detected and the standby time delay expires, lights can be dimmed according to a set level and can be switched off after a dimming time delay expires. All aspects and sequence of operations are configurable through EnergyCenter.

6

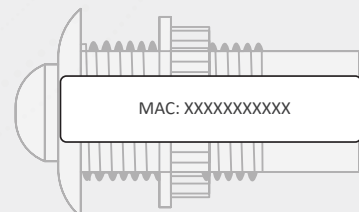
COVERAGE PATTERN (A630M-ZB)



1

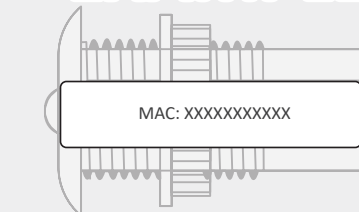
On the provided list of device serial numbers, document the location for the S630.

A630M-ZB



EXAMPLE

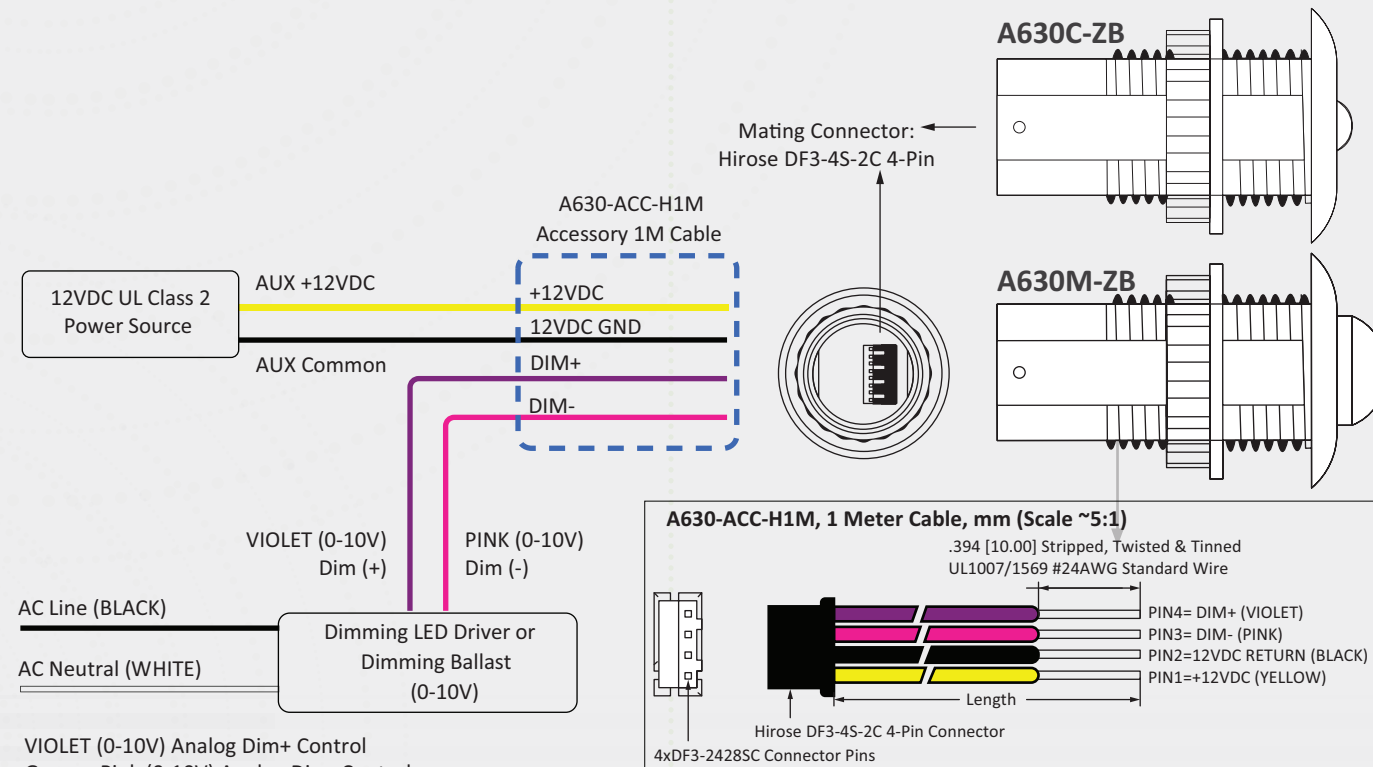
A630C-ZB



7

WIRING DIAGRAM

NOTE: When installing the Sensor, make sure that power has been turned OFF at the breaker panel.



VIOLET (0-10V) Analog Dim+ Control
Grey or Pink (0-10V) Analog Dim- Control

NOTE: Per NEC/UL, the 0-10V negative dimming wire color has changed from Gray to Pink effective January 1, 2022.

NOTE: There are AC line voltage wires included in the wiring diagram and if the A630 is powered from a power pack the power pack will need to be wired to line voltage.

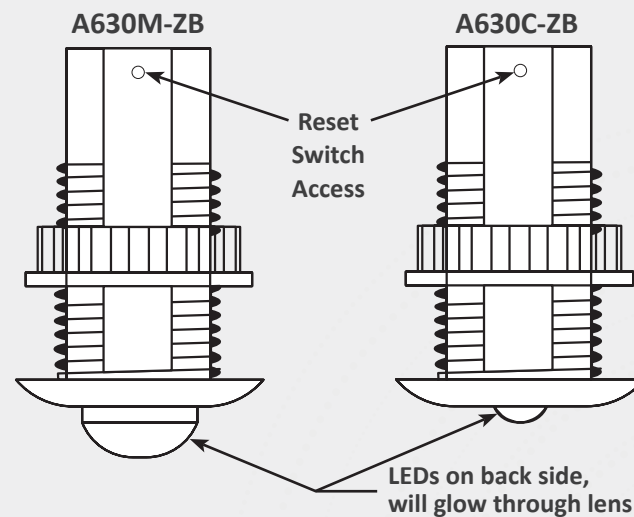
ZIGBEE RADIO RESET INSTRUCTIONS

Hold reset button for 11 seconds. The lighting load will transition and the LED Green will flash.

Once the reset is performed successfully, the device will search for a network and can be added through EnergyCenter®.

NOTE: If the LED is blinking, then its searching for a network.

Colors	Meaning
Solid Green	No Network
Flashing Green	Joining/Leaving Network
No green	Joined to Network
Flashing Red	Occupancy detected, A630M only
Flashing Blue	Identify



INPUT SPECIFICATIONS

Parameter	Min.	Typ.	Max.	Notes/Conditions
Input Voltage	10	12	14	V DC, UL Class 2 Power Source
Input Current	---	60mA	200mA Peak	mA DC, Peak occurs during transmit
Zigbee Control Transmit Power	---	---	+12dBm	ON/OFF, 0-10V dimming & Photo Sensor, Standard Zigbee
Zigbee Control Receive	---	-95dBm	---	Zigbee Radio Receive Sensitivity
Photo Sensor Range	1	---	300fc	Precision Optical Filtering Matches the Human Eye

OUTPUT SPECIFICATIONS

Parameter	Min.	Typ.	Max.	Notes/Conditions
Sink Current on 0-10V (+) Purple Wire	0mA	---	50mA	IEC60929 Annex E2
Absolute Voltage Range on 0-10V (+) Purple Wire	-20.0V	---	+20V	IEC60929 Annex E2
Dimming Range	0.2V	---	+10V	Ballast or Led Driver provides Dim Voltage & Current per IEC60929 Annex E2, 0(1)-10V Analog Dimming

ENVIRONMENTAL SPECIFICATIONS

Parameter	Min.	Typ.	Max.	Notes/Conditions
Operating Temperature (Ta)	0°C	---	+60°C	Operating temperature range.
Storage Temperature (Ts)	-10°C	---	+70°C	Non operating temperature range.
Operating Humidity	---	---	95% RH	Relative Humidity, non-condensing.
Vibration	5 Hz	---	55 Hz	2G, 10 minutes/1 cycle, period 30 minutes, each along X, Y, Z axis.

SAFETY & EMC COMPLIANCE

Safety	Notes/Conditions
UL/cUL Listed	UL244A, UL508, CSA22.2 NO. 14-13
0-10V Class 2 Dimming Circuit	UL & cUL Class 2, Dim+ Purple/Dim- Pink. (Using a 12VDC UL Class 2 Power Source)
FCC	Certified

SERIAL NUMBER INFORMATION AND TRACKING

The serial number or ID of a device is used to track device installation locations and details for the commissioning process. The identification information for each device should be tracked in a meaningful way, many devices include duplicate 'stickers' with this information. Autani provides an iOS app to assist with the process.



For help getting starting with the iOS Commissioning App please see Autani's User Guide for the iOS Commissioning App.



Once commissioning details are collected, either through the iOS Commissioning App, or by tracking identifiers on drawings/spreadsheets. Please provide this information to support@autani.com to begin the commissioning process.