

Specifications

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| Input Voltage | 15 - 30 VDC |
| Power Consumption | 11 mA |
| Radio Frequency | 2.4 GHz |
| RF Transmission Output Power (Average) | +12 dBm |
| Operating Environment | 40 to 120 deg F, dry location |
| Dimensions | 3.25" L x 1.5" W x 1" H |
| Wires | 9' 600 VAC plenum rated, 18 AWG solid conductors |
| Sensor Input Channels (2) | 0 - 30 VDC |
| Configuration Programming | Configuration programming stored in non-volatile memory |
| Mounting | Snaps into 1/2" knockout on electrical box |
| UL Listing | UL 2043 plenum rated |

Ordering Information

| Catalog Number | Description |
|----------------|-------------------------------------|
| SI - 2C | Sensor Interface - 2 Input Channels |

Class A Digital Devices

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. The equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of the equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense.

To comply with RF exposure compliance requirements, for mobile configurations, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons. This device must not be co-located or operating in conjunction with any other antenna or transmitter.

WARRANTY INFORMATION

Adura warrants to Buyer that the platform control devices, associated sensors, network components (including Adura Gateway and Gateway hardware) purchased from Adura (collectively, "Hardware") will conform to their written specifications and be free from defects in workmanship and material under normal use and service for 1 year from date of delivery to Buyer or the date of manufacture based on the serial number if the date of delivery cannot be reasonably ascertained ("Hardware Warranty Period"). Adura passes through manufacturers' warranties, if any, as permitted for third party hardware which may be supplied with the system and Buyer agrees to look only to such third party vendors for any warranty claims relating thereto. For Hardware not conforming to this limited Hardware warranty during the Hardware Warranty Period, as its sole responsibility, Adura, at its option, will repair or replace the defective Hardware with new or equivalent to new components and Hardware so long as Buyer provides written notice of a covered, reproducible defect during the Hardware Warranty Period, Buyer complies with Adura's return material authorization process ("RMA Process") and is otherwise in compliance with this warranty. Repaired Hardware will be covered by this limited Hardware warranty for the longer of the remaining term of the Warranty Period or 30 days from shipment of the repaired Hardware to the Buyer. Adura owns all parts removed from the Hardware for which a replacement was provided. Visit www.aduratech.com for list of exclusions and disclaimers.



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SI-2C 12.09

INSTALLATION INSTRUCTION MANUAL

sensor interface

The Sensor Interface is to be used in lighting systems to control lighting in commercial and industrial buildings. It transmits signals received from a low voltage occupancy sensor and from a photocell onto Adura's® wireless network.

The Sensor Interface is intended to be used in a network of devices which communicate wirelessly, such as Light Controllers, wall switches and software management tools.

The Sensor Interface is intended to mount onto an electrical junction box. Often, the Sensor Interface and the junction box will be mounted in the space above a finished ceiling. The Sensor Interface is intended for indoor use only. It is rated for mounting in a plenum.

The Sensor Interface is a low voltage device that must be powered by a Class 2 power supply. A 15-30 VDC power pack can be used to power the Sensor Interface and any connected low-voltage sensors. **Do not connect the power pack relay to the lighting load.** The load is switched by Adura Light Controllers via a wireless signal.

The Sensor Interface has 2 input channels:

- Channel 1 = Blue Wire
- Channel 2 = Yellow Wire

Either channel can be used to monitor standard low voltage occupancy sensors, low voltage photocells and dry contacts.

Installation Materials (Not Supplied)

Wiring connectors. All existing wiring connectors must be replaced with new UL listed wiring connectors, either wire nuts or captive-type connectors. All wiring connectors must be correctly sized for the application, the number and the size of the electrical conductors.

CAUTION

- Disconnect all power before installation or service.
- All installation and maintenance work must be performed by qualified personnel.
- The Sensor Interface must be installed in accordance with state, local and national electrical codes and requirements.



Installation Instructions

The Sensor Interface is designed to be inserted into a knockout on an electrical junction box. All Sensor Interface wiring is low voltage.

1. Locate the junction box on which the power pack is mounted. (See occupancy sensor and/or photocell section for more information). This is likely to be the preferred location for mounting the Sensor Interface.
2. Locate a spare 1/2" knockout on the junction box. Remove the knockout and slide the Sensor Interface into the opening until it catches.
3. With a volt meter, identify the +24 VDC and Return wires from the power pack.

DO NOT CONNECT THE SENSOR INTERFACE IF THE SUPPLIED VOLTAGE IS GREATER THAN 30 VDC. STOP AND IDENTIFY ANOTHER POWER SOURCE.

4. Connect the +24 VDC and Return wires from the power pack to the Sensor Interface, as shown in the wiring diagrams.

Power Pack Relay

A 15-30 VDC power pack can be used to power the Sensor Interface and any connected low-voltage sensors. **Do not connect the power pack relay to the lighting load.** The load is switched by Adura Light Controllers via a wireless signal.

New Occupancy Sensor

If new occupancy sensors are required, purchase any standard low voltage occupancy sensor and associated power pack. Install the occupancy sensor and power pack according to the manufacturer's instructions.

(Do not connect the occupancy sensor signal to the power pack. Do not connect the line voltage wiring to the relay on the power pack).

Existing Occupancy Sensors

Locate any existing low voltage occupancy sensor and its associated power packs.

Wiring an Occupancy Sensor

1. Verify that the occupancy sensor detects and signals occupancy as intended. (+24 VDC on occupancy sensor signal wire when occupied).
2. Connect the signal wire from the occupancy sensor to an available Sensor Interface channel wire. For existing occupancy sensors, disconnect and secure the signal wire on the power pack.

Channel 1 = Blue Wire
Channel 2 = Yellow Wire

3. For existing occupancy sensors, disconnect the line voltage wiring from the power pack relay.

4. Adura recommends adjusting the occupancy sensor time delay to one minute. (Adura Light Controllers can be programmed with an additional software time delay.)

Connect the lighting load wiring to the hot wire. Secure the relay leads with a wire nut.

Wiring a Photocell

1. Install and wire a standard 0-10 VDC photocell and power pack or other Class 2 power supply per the manufacturer's instructions.
2. Connect the signal (wire or terminal) on the photocell to an available Sensor Interface channel wire.

Channel 1 = Blue Wire
Channel 2 = Yellow Wire

Verifying Installation

The two LEDs are used to verify the status of the field wiring. Each channel has an LED.

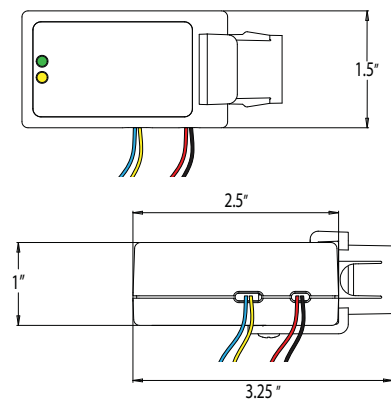
Channel 1 = Green LED
Channel 2 = Yellow LED

If an occupancy sensor is assigned and occupancy is signaled, then the LED for that channel will be solid on. If a photocell is assigned, then the LED for that channel will blink. As the light level increases, the speed of the blinking will increase.

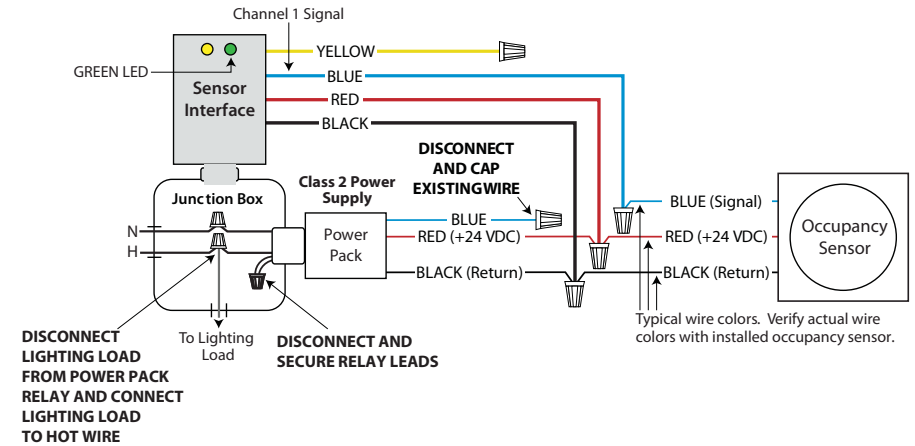
Programming

Contact Adura certified personnel for system setup.

Dimensions



Wiring Diagram #1 OCCUPANCY SENSOR WIRING



Wiring Diagram #2 PHOTOCELL WIRING

