

Specifications:

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 1/4" L x 1 7/16" 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

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.

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.

WARRANTY INFORMATION

Adura Technologies™ warrants its products to be free of defects for a period of five years. Adura Technologies will, at its option, repair or replace any product that is defective in materials or manufacture that is returned to ADURA within the warranty period. This warranty is void if this product has been installed improperly or in an improper environment, overloaded, misused, or altered in any manner, or not installed in accordance with any labels or instructions. Adura Technologies is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of property, revenue or profit. This warranty does not cover the cost of installation, removal or reinstallation.

INSTALLATION INSTRUCTION MANUAL

The Sensor Interface is to be used in lighting systems to control lighting in commercial and industrial buildings. It transmits signals received from an 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 control devices 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.

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 contracts.

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.

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. 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

Auto Detection:

The Sensor Interface detects what type of sensor is connected to each channel prior to being commissioned.

Verifying Installation:

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

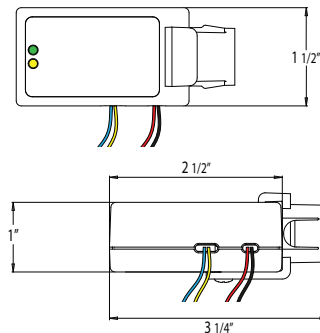
Channel 1 = Green LED
Channel 2 = Yellow LED

If a channel has never been used, then its LED will blink every two seconds. If an occupancy sensor is connected and occupancy is signaled, then the LED for that channel will be solid on. If a photocell is connected, then the LED for that channel will blink. As the light level increases, the speed of the blinking will increase.

Programming:

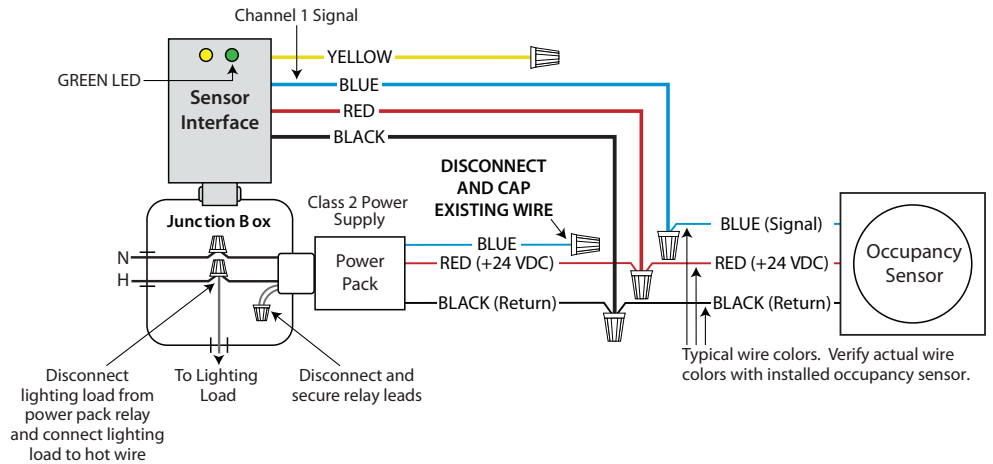
Refer to the setup application instruction for information on programming the Sensor Interface.

Dimensions:



Wiring Diagram #1

OCCUPANCY SENSOR WIRING



Wiring Diagram #2

PHOTOCELL WIRING

