



# CRC5301 CRC5311

PIR Occupancy Sensor



## Overview

Powered by NexLight's 2-Wire Data Bus, the CRC5301 is a ceiling mount occupancy sensor that utilizes Passive Infrared (PIR) technology to detect occupancy and automatically switch lighting ON and OFF as needed. Detection zones may be expanded with the CRC5311 auxiliary sensor. After mounting and setting initial address, all features and settings can be accessed via the IPC software.

## Electrical (Control Wiring)

<b>Data Input:</b>	±24 VAC, Signal
<b>Current Draw:</b>	20 mA (CRC5301) 15 mA (CRC5311)

## Physical Specification

<b>Dimensions:</b>	4.13" H x 4.13" W x 2.95" D (105 mm x 105 mm x 75 mm)
<b>Mounting Screw Pattern:</b>	0.177" x 0.591" @ 3.07" ; 0.177" x 0.256" @ 3.27" (4.5 mm x 15.0 mm @ 78 mm ; 4.5 mm x 6.5 mm @ 83 mm)
<b>Temperature Rating:</b>	41 °F to 95 °F (5 °C to 35 °C)
<b>Weight:</b>	3.75 oz (106 g)
<b>Lens Tilt Angle:</b>	12°

## Features

- » Provides PIR technology Occupancy or Vacancy sensing
- » Detection area can be expanded by adding up to (5) CRC5311 auxiliary sensors
- » Controls optional auxiliary load with additional OFF Delay feature
- » Adjustable photocell can disable sensor when a user-defined level of daylight is present
- » Once initial address is set, all other settings can be adjusted via IPC software
- » Sensor can be enabled/disabled and motion status can be monitored via IPC software



## Family Products

### CRC5301

PIR Occupancy Sensor  
Main Unit



### CRC5311

PIR Occupancy Sensor  
Auxiliary Unit



## Terminal Identification



1. To Auxiliary CRC5311
2. 2-Wire Data Bus

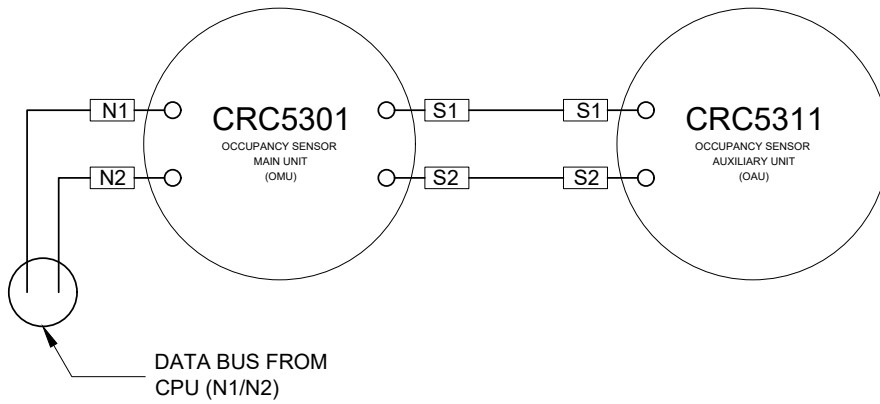


1. From Main CRC5301

**NOTE: Must be from S1/S2 terminals on Main CRC5301; do not connect to 2-Wire Data Bus.**

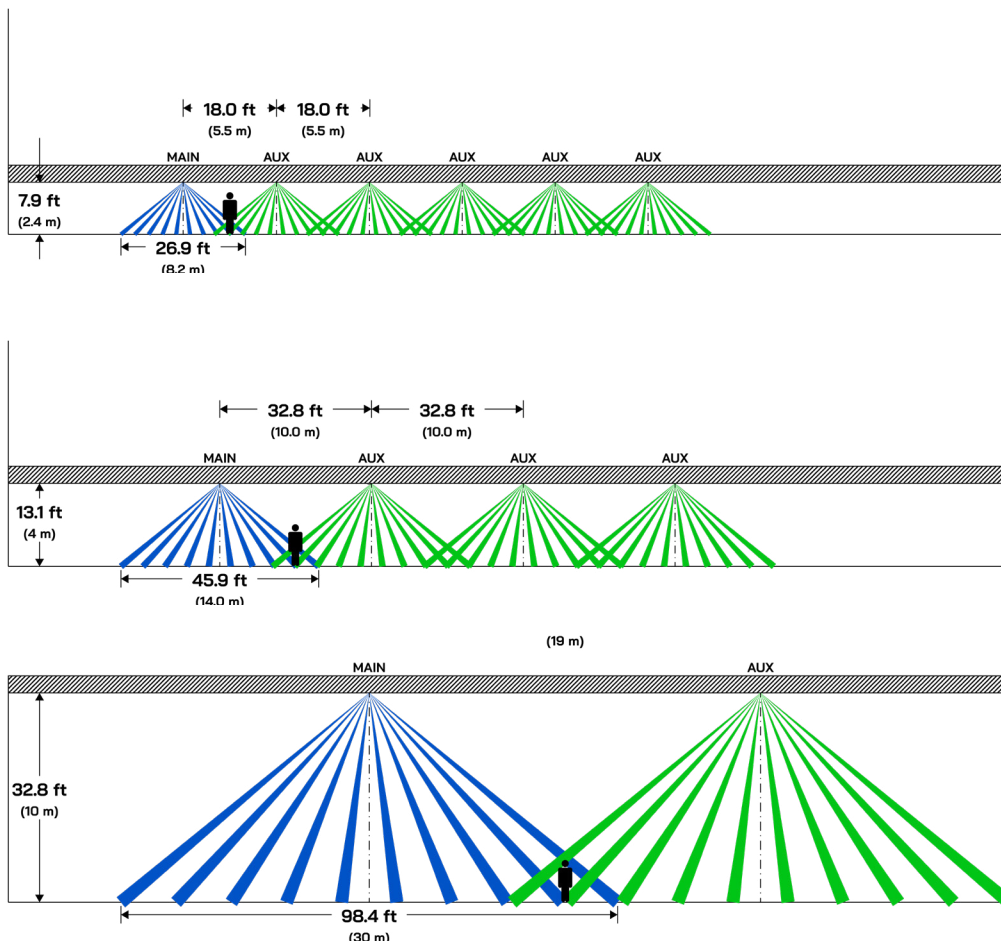


## Wiring Diagrams



## Detecting Range

Examples for maximum detecting range and sensor spacing at various mounting heights. A maximum of (5) CRC5311 Auxiliary Units can be connected to each CRC5301 Main Unit.



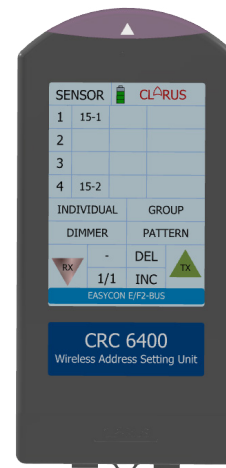
# Programming

Addressing of the CRC5301 Occupancy Sensor is conducted using the CRC6400 Address Setting Unit, a handheld IR programming tool that is commonly sold with each NexLight Lighting Control System. The CRC5301 Occupancy Sensor may only accept an Individual Address type. Individual Addresses consist of a prefix (values ranging from 0 to 63) and a suffix (values ranging from 1 to 4).

- Channel 1: Sensor Address** Enable/Disable sensor with this address
- Channel 2: \*Factory Use Only** For internal NexLight use only
- Channel 3: \*Factory Use Only** For internal NexLight use only
- Channel 4: Occupancy Status Monitoring** Displays current motion sensing status



CRC6400 Address Setting Unit programming a CRC5301 Occupancy Sensor



Screen 1 – Channels 1 through 4

