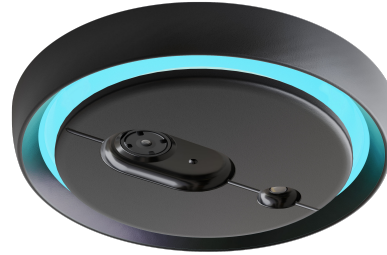
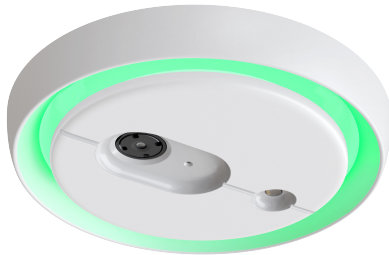


Resense™ Move

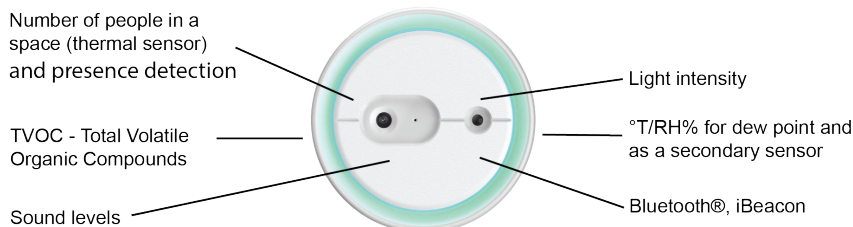


Overview

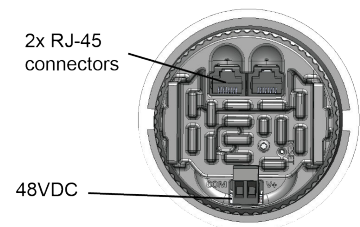
Resense Move is an AI-powered multi-sensor enhancing energy efficiency, air quality, and delivering actionable insights. It collects precise, high value-added data to better understand how spaces are used and improve the well-being of building occupants.

This compact device effectively combines: (1) a thermal sensor for people counting and (2) presence detection, (3) a light sensor, (4) a sound level sensor, (5) a Volatile Organic Compounds (TVOC) sensor, and (6) temperature and (7) humidity sensors (temperature and humidity sensors are not intended for regulation, but to be used as secondary/backup sensors).

Natively, it has integrated a *Bluetooth®* low energy technology transceiver for the wireless control of all comfort parameters (HVAC, lighting, sunblinds) from the *my Personify* mobile app or with the Uniwave series room sensors.



Resense Move Front



Resense Move Back

General Installation Requirements

For proper installation and subsequent operation of each controller, pay special attention to the following recommendations:

- Keep this product at room temperature for at least 24 hours before installation to allow any condensation that may have accumulated due to low temperature during shipping/storage to evaporate.
- Upon unpacking the product, inspect the contents of the carton for shipping damages. **Do not install damaged modules.**
- Avoid areas where corroding, deteriorating or explosive vapors, fumes or gases may be present.
- Do not install onto a direct sunlight source.
- Do not install close to airflow (fan coil unit, ceiling air diffuser, etc.).
- The controller's spec sheet specifies the power consumption (amount of heat generated), the operating temperature range, and other environmental conditions the controller is designed to operate under.
- Do not drop the product or subject it to physical shock.
- If the controller is used and/or installed in a manner not specified by Distech Controls, the functionality and the protection provided by the controller may be impaired.
- SELV (Separated Extra Low Voltage) inputs/outputs must be connected to other SELV equipment inputs/outputs.



Any type of modification to any Distech Controls product will void the product's warranty



Take reasonable precautions to prevent electrostatic discharges to the product when installing, servicing or operating the product. Discharge accumulated static electricity by touching one's hand to a well-grounded object before working with the product.

Device Markings

Certain markings (symbols) can be found on the controller and are defined as follows:

Symbol	Description
	CE marking: the device conforms to the requirements of applicable EC directives.
	Products must be disposed of at the end of their useful life according to local regulations.
	For indoor use only.
	FCC marking: This device complies with FCC rules part 15, subpart B, class B.
	MIC Marking: This device complies with the requirements of applicable Japan regulations.
	RCM Marking: This device complies with the requirements of applicable Australia regulations.
	IC Marking: This device complies with the requirements of applicable Canada regulations.
	Class III electrical appliance
	Lead-free

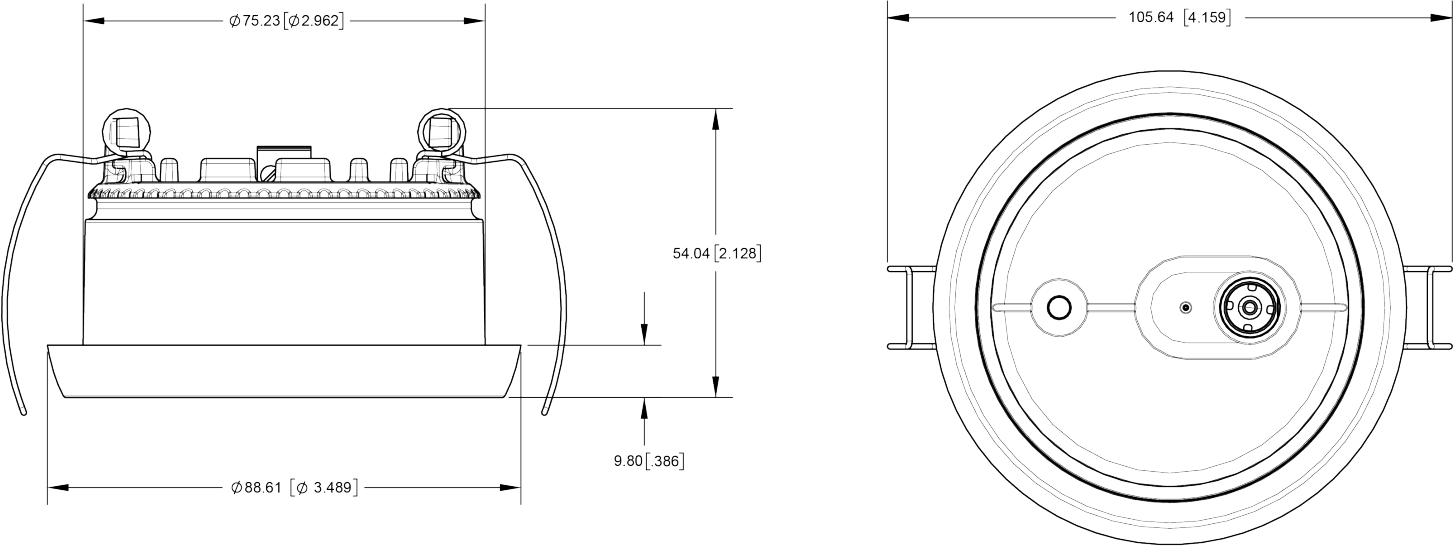
General Wiring Recommendations



Risk of Electric Shock: Turn off power before any kind of servicing to avoid electric shock.

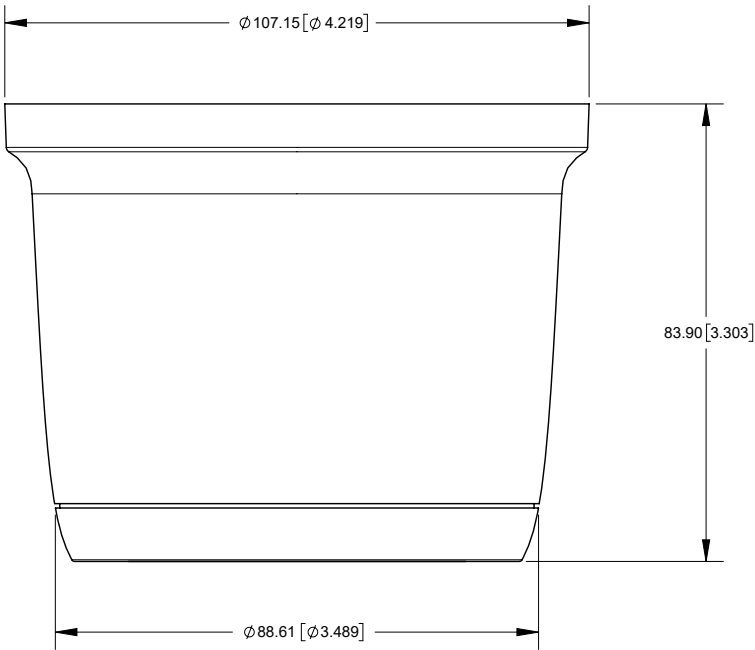
- All wiring must comply with electrical wiring diagrams as well as national and local electrical codes.
- For an easier installation, a flat style Cat5e cable with a low profile connector is recommended. See Distech Controls Field Device product offerings for more information.
- To connect the wiring to a device, use the terminal connectors. Use a small flat screwdriver to tighten the terminal connector screws once the wires have been inserted (strip length: 0.25" (6 mm), maximum tightening torque 0,4 Nm (3.45 in-lb)).
- Always use cabling with a minimum Category 5 (CAT5e) for ethernet communications.
- Keep wiring separate according to their function and purpose to avoid any ambient noise transmission to other wires. Use strapping to keep these wires separated. For example, keep power, hazardous voltage, SELV, PELV, network, and input wiring separate from each other.
- When connecting one wire to a device's terminal block clamping cage (pole), the wire must be between 22 and 16 gauge (0.33 and 1.3mm² cross-sectional area). When connecting two or more wires to a device's terminal block clamping cage, both wires must be the same thickness, must be between 22 and 18 gauge (0.33 and 0.82mm² cross-sectional area), and must be the same type (solid or stranded). Twist the wires together and insert then into the device's terminal block clamping cage.

Dimensions



Millimeters [Inches]

Figure 1. Resense Move dimensions



Millimeters [Inches]

Figure 2. Mounting Adapter dimensions

Planning Device Placement for Optimal Space Coverage



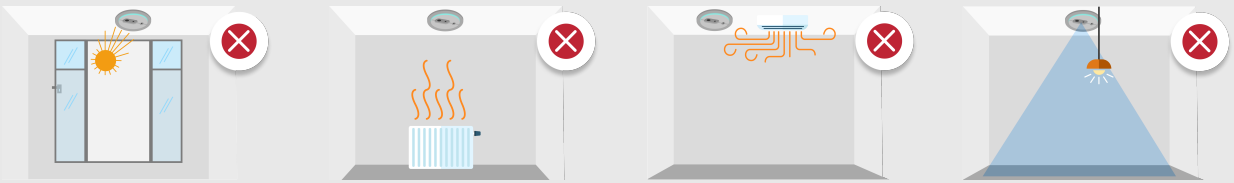
The Resense Move counts the number of people within a defined space using low-resolution images. These images are not stored on the device or sent to external devices and cannot be used to identify individuals. However, if an authorized user knows the identities of individuals likely to be in the space, they might be able to guess who is detected. It is the authorized user's responsibility to comply with all applicable laws, including privacy laws that may require consent from detected individuals.

The Resense Move has been tested and validated in a standard office environment. For applications outside of this setting, please consult with the Distech Controls team to ensure optimal performance and compatibility.



When planning Resense Move device locations, keep in mind that the following factors can significantly impair the performance and accuracy of the people counting feature:

- Installation above 10ft (3m) or below 8.2ft (2.5m) from the ground. For installation on ceilings higher than 10ft (3m), you can use suspended mounting with the mounting adapter. See [Mounting Instructions \[7\]](#).
- Installation near heat sources and direct airflow.



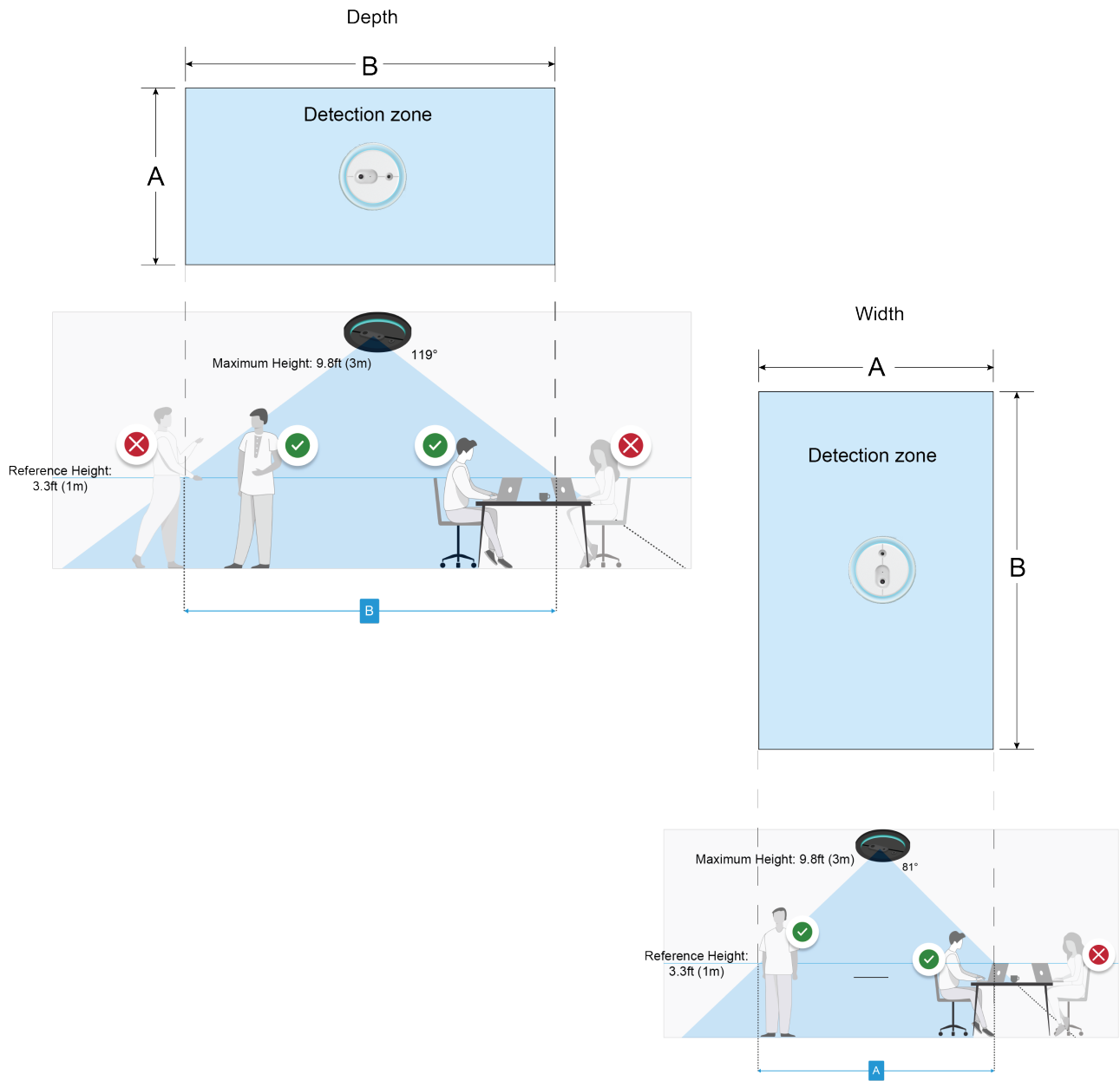
In large areas that require the installation of multiple devices, it is important to plan the location and orientation of each device to ensure optimal coverage of the space.

Calculating the Required Number of Devices

To estimate the number of devices necessary to cover your space, round up the result from the following formula:

Required number of devices = (Total area to cover ÷ Area of detection for one device) x 1.10

For instance, since a device installed at 8.9ft (2.7m) covers an area of 183ft² (17m²), 10 devices will be needed to cover an area of 1615ft² (150m²).



Ceiling Height	A	B	Total Area
8.2ft (2.5m)	8.2ft (2.5m)	16.4ft (5m)	139.9ft ² (13m ²)
8.9ft (2.7m)	9.5ft (2.9m)	18.7ft (5.7m)	183ft ² (17m ²)
9.8ft (3m)	11.5ft (3.4m)	22ft (6.7m)	247.6ft ² (23m ²)

Figure 3. Area of detection at 3.3ft (1m) from the ground

Positioning Multiple Devices for People Counting

To count people in an area larger than the coverage of one sensor, devices should be positioned in a grid so as to avoid any overlaps or dead zones between the detection zones of each device.

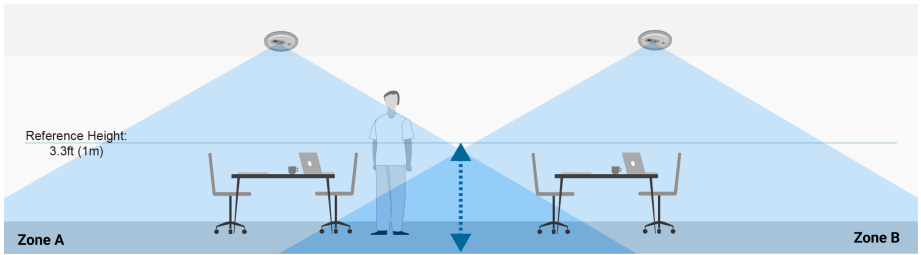


Figure 4. Optimal placement

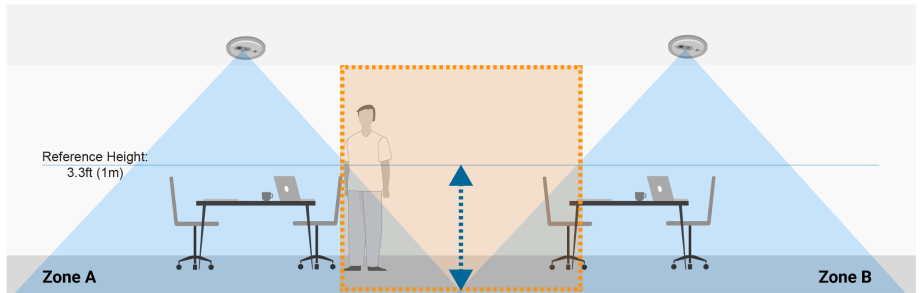


Figure 5. Devices are too far apart - people in the orange highlighted zone will not be counted

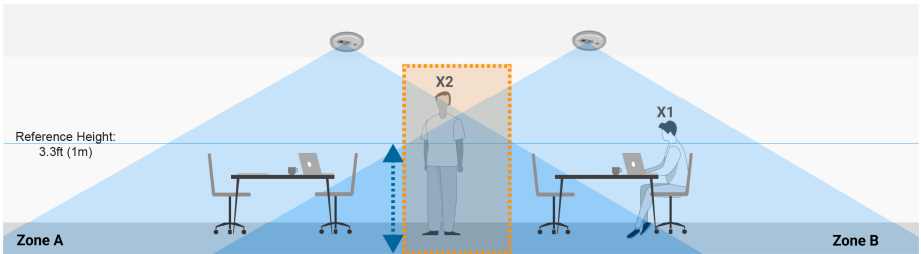
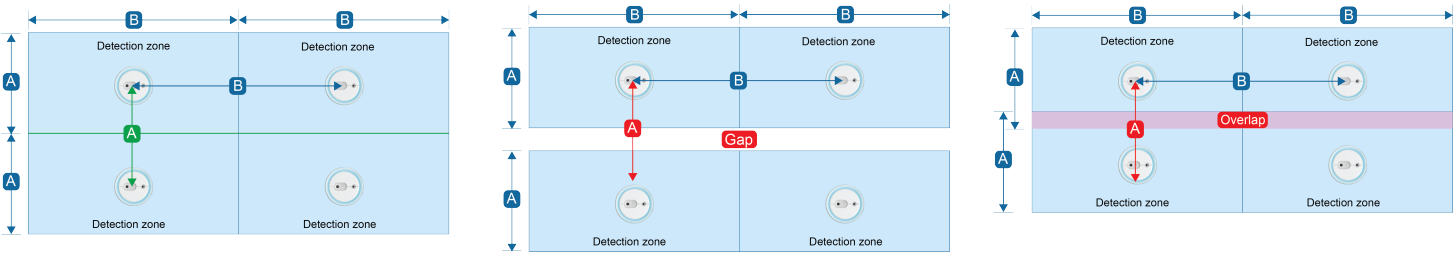


Figure 6. Devices are too close together - people in the highlighted zone will be counted twice

The distances between devices should be equal to the dimensions of the area of detection of a single device at 3.3ft (1m) from the ground. In cases where overlaps cannot be avoided, you can configure the detection zone in each device to exclude the overlap between devices. See [Configuring the detection zone \[15\]](#).



Ceiling Height	A	B	Total Area
8.2ft (2.5m)	8.2ft (2.5m)	16.4ft (5m)	139.9ft ² (13m ²)
8.9ft (2.7m)	9.5ft (2.9m)	18.7ft (5.7m)	183ft ² (17m ²)
9.8ft (3m)	11.5ft (3.4m)	22ft (6.7m)	247.6ft ² (23m ²)

Figure 7. Distances between multiple devices (at 3.3ft (1m) from the ground)

Mounting Instructions

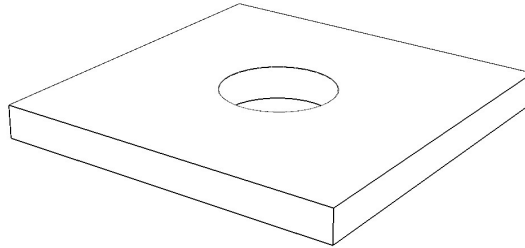
This product can be mounted directly into a suspended ceiling, fixed by a supplied rear spring, or on an open ceiling, fixed with a supplied mounting adapter at heights ranging from 8.2 to 10ft (2.5 to 3m).

The Resense Move comes equipped with either a rear spring or a mounting adapter for concrete or open ceilings. However, these accessories can also be purchased separately for retrofits. For more information, refer to the [Resense Move Spec sheet](#).

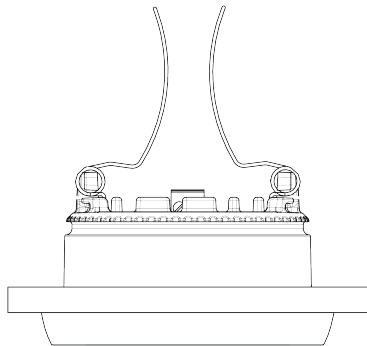
False Ceiling Mounting

This product can be installed in ceiling tiles ranging from 0.08 to 2in (2 to 50mm) in thickness.

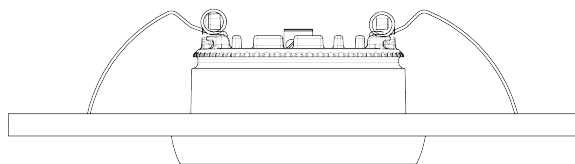
1. Drill a circular hole with a diameter of 3-3.1in (76-78mm) in the ceiling tile using a hole saw.



2. Connect the cable(s) to the product.
3. Fold up the clips of the two mounting springs and insert the product through the hole in the ceiling tile.



4. Let go of the spring and ensure the product is oriented correctly. See [Device Orientation \[9\]](#).

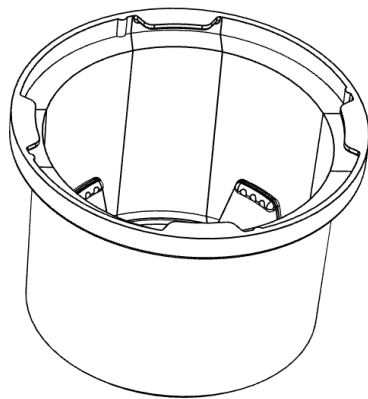


The product is now fixed into the suspended ceiling.

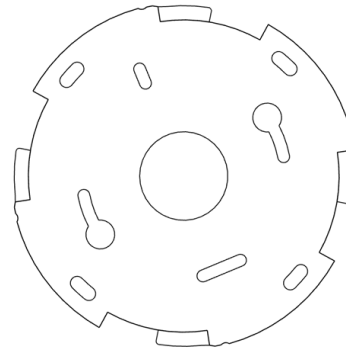
Concrete or Open Ceiling Mounting

The product can be mounted on a concrete or an open ceiling using a mounting adapter. The product can be oriented incrementally inside the mounting adapter.

The mounting adapter consists of two parts: a design cover and a universal mounting plate.



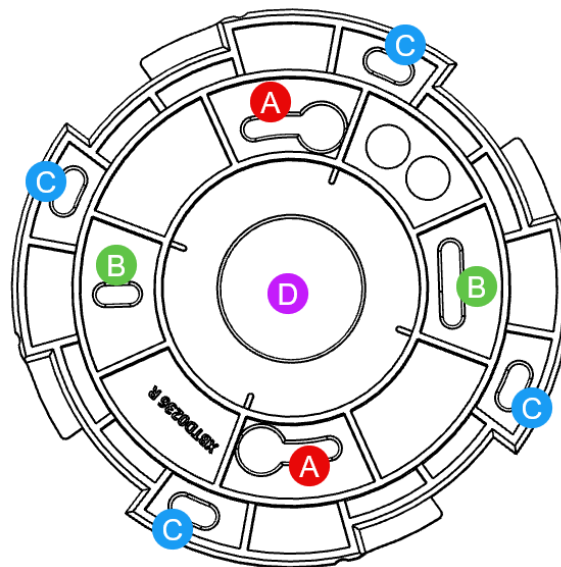
Design cover



Mounting plate

The universal mounting plate covers different junction box sizes and facilitates mounting installation:

- European 2.6in (67mm)
- Octagonal junction box
- Suspended from any support



- A For mounting on an European junction box (2.6in (67mm))*
- B For mounting on an octagonal junction box (USA) (4x4in (101.6mmx101.6mm))*
- C For mounting on any other material*
- D For suspended mounting using an EMT locknut*

Suspended Mounting (EMT Locknut or Connector)

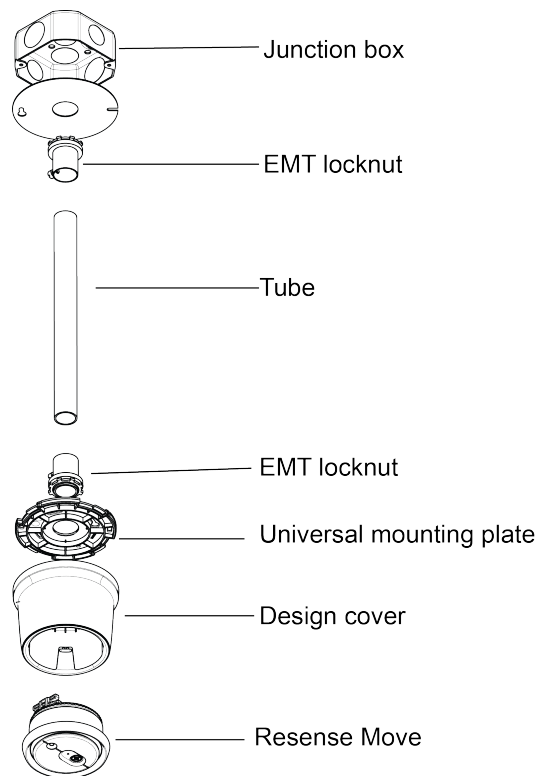


Figure 8. Principles of mounting

Make sure that the tube is wide enough for wiring.



For installations in Europe, we recommend using an IBOCO connector (reference: B05400)

Ensure that the product is oriented correctly. See [Device Orientation \[9\]](#).

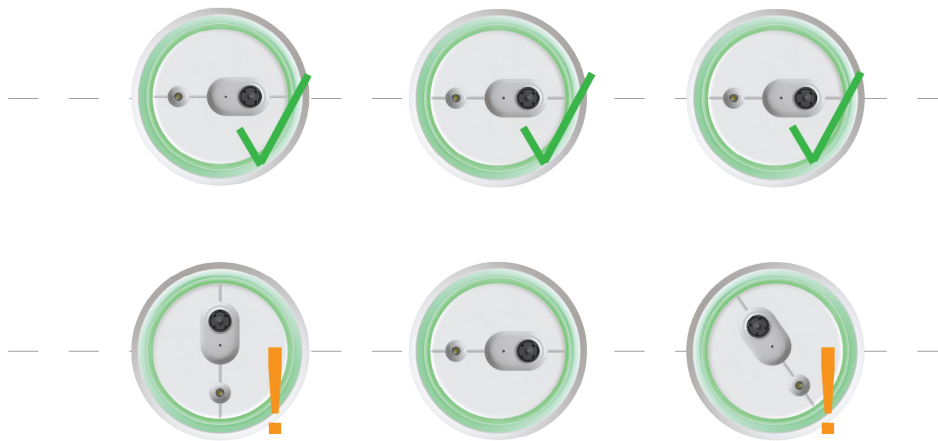
Device Orientation

In order to orient the device to capture the largest area, mount each with its thermal sensor pointing in the direction of the area you want to capture. To facilitate proper installation, follow the arrow on the label attached to the device.

After installation, don't forget to remove the label and stick it to a floor plan for final installation validation. Distech Controls also recommends that you stick each device's QR code on the floor plan.



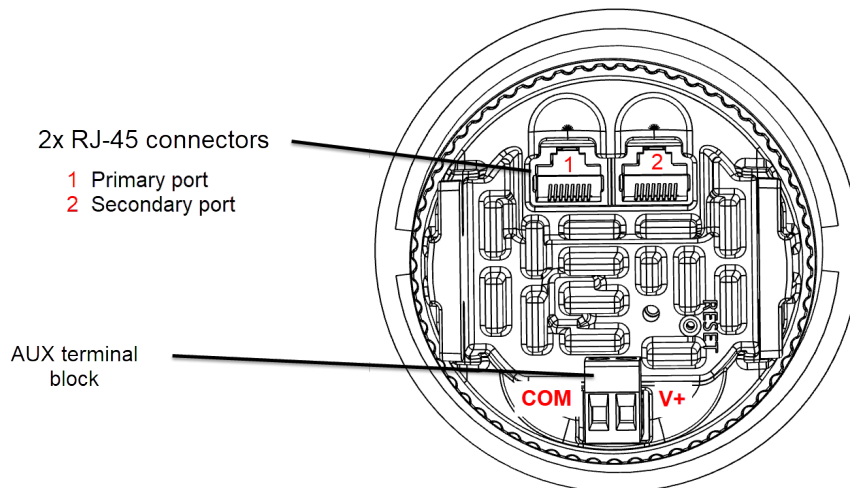
In large areas that require the installation of multiple devices, it is recommended to place them in a line and oriented in the same direction.



Power Wiring

The device can be powered through:

- The AUX terminal block (48VDC)
- The RJ-45 ports:
 - Passive Power over the Ethernet (PoE) port (48VDC to 55VDC)
 - From the controller's Subnet-IP AUX port (55VDC)



Maximum Wiring Lengths

The maximum Cat5e cable length between one device and the first switch or PoE Injector shall be less than 197ft (60m).

The maximum Cat5e cable length between two devices in daisy chain shall be less than 197ft (60m) when installed in Class 2 environment, or 32ft (10m) when installed in Class 3 environment (electrically noisy environment).

The total maximum Cat5e cable length between the switch, including the length to the PoE injector, and the last daisy chained device shall be less than 328ft (100m).

AUX Terminal Block

Voltage: 48VDC; +/-15%, Class 2 (UL1310) Class III (SELV/TBTS)

For terminal block connector wiring best practices, see [General Wiring Recommendations \[2\]](#).

The maximum number of Resense Move devices allowed for daisy-chained Ethernet is 50.



This is a Class III class 2 device. Use an appropriate power supply to power the device. Power supply shall be Class II (double insulated) and Class 2 or LPS (Limited power).

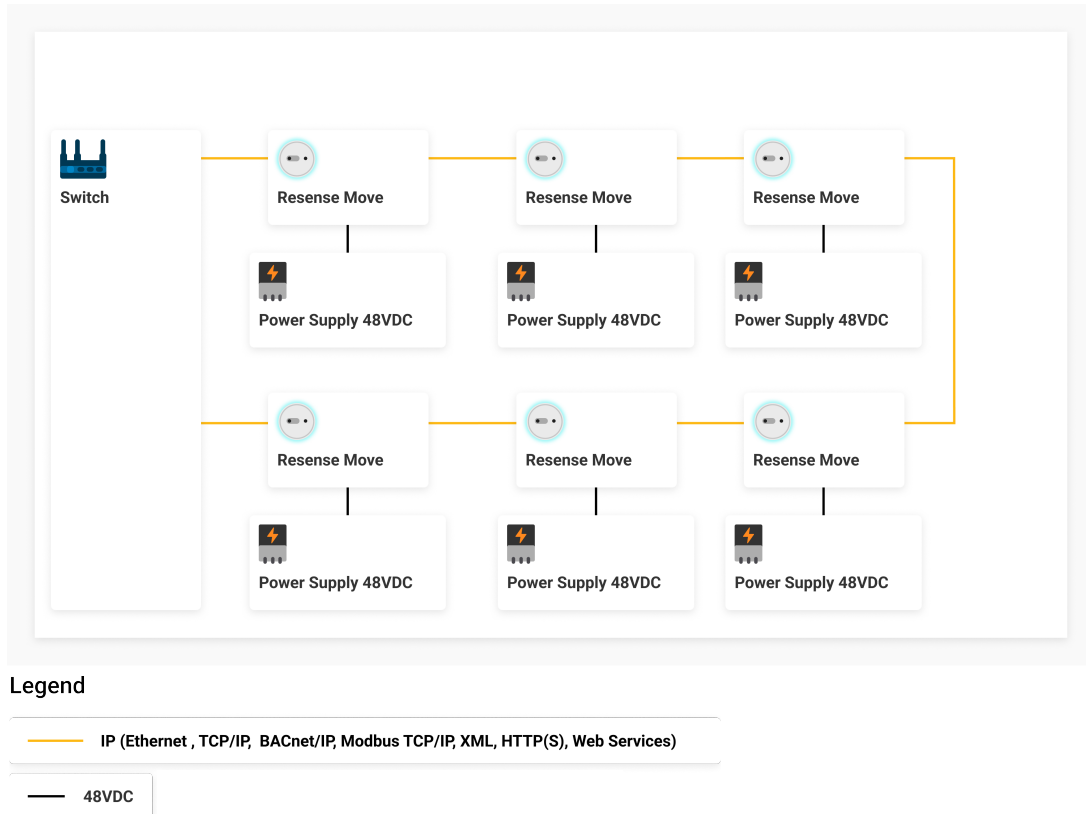


Figure 9. Individual power supply architecture

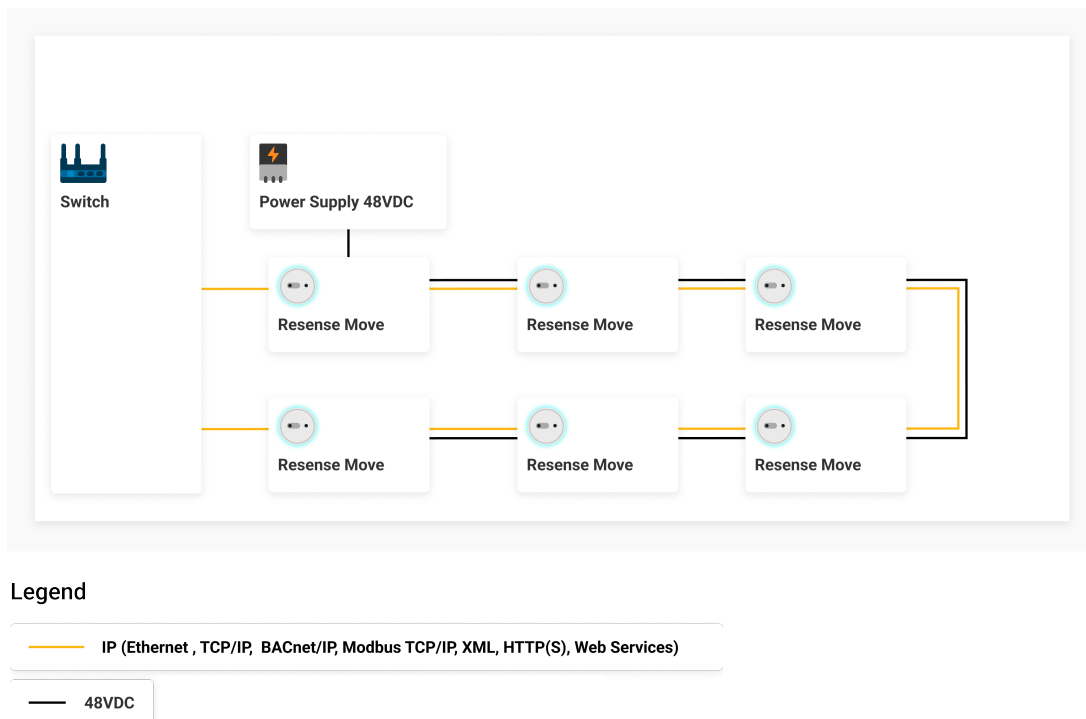


Figure 10. Centralized power supply architecture

Passive PoE Ethernet Port

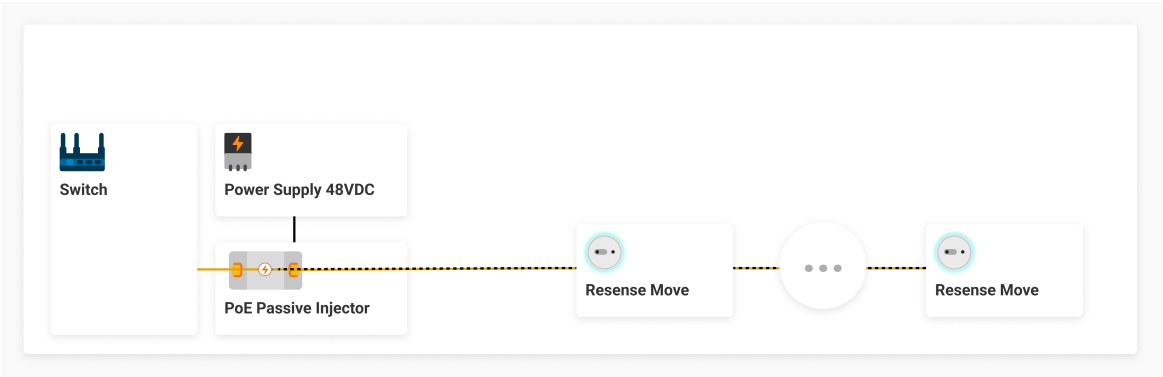
Voltage: 48 to 55VDC

Ethernet cable: Category 5e or better, AWG26 maximum.

The device can be powered through the Passive PoE Ethernet port, with a PoE injector that supports the TIA-568-B standard to split the data and power between the LAN CAT cable wire pairs. The 48VDC power will be supplied on wire pairs 4/5 and 7/8.

The maximum number of daisy-chained Resense Move devices allowed when powered through Passive PoE is 7.

- 1. Power the PoE injector through a built-in or an external 48VDC power source.
- 2. Activate the PoE Mode B on the PoE injector.
- 3. Connect the PoE injector to the device with a Cat 5e (or better) cable.
- 4. If you are using a spanning-tree architecture, add a PoE splitter between the last device and the power switch to avoid injecting current into the switch.



Legend

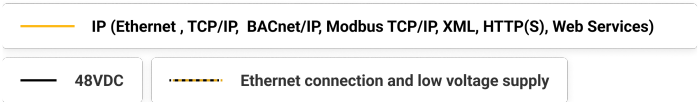
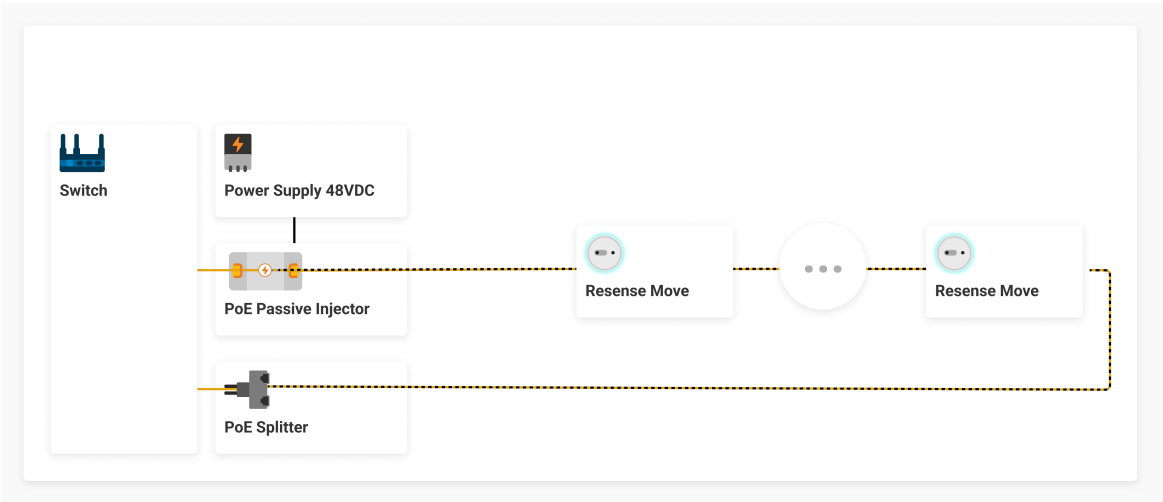


Figure 11. Power supply through Passive PoE Ethernet port architecture



Legend

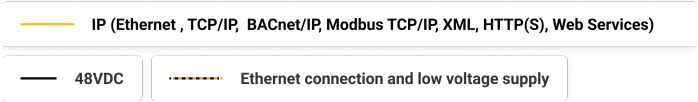


Figure 12. Power supply through Passive PoE Ethernet port using a spanning-tree architecture

Connecting to the Configuration Interface

Use any of the following methods to connect to the configuration interface:

- [Using the XpressNetwork Utility \[13\]](#)
- [Using the Hostname \[13\]](#)
- [Using the Ethernet IP Address \[13\]](#)

Using the XpressNetwork Utility

The XpressNetwork Utility is a software application that runs on a PC that allows you to discover all Eclipse controllers and other devices connected to an IP network's subnetwork or Wi-Fi network and to perform a range of operations on many controllers or devices at once: you can set the Hostname and IP address, launch EC-gfxProgram, or you can access the configuration Web interface. See the [XpressNetwork Utility User Guide](#) for more information.

The Atrius Facilities mobile app can be installed on your smartphone and it works with the QR code marked on the controller's faceplate which encodes the controller's MAC address and host ID. By scanning the QR code, the app records this information to which you assign a hostname. Once the QR codes for all controllers have been read in, the app's information can be imported in the XpressNetwork Utility where it is used to populate the relevant data fields. See the Atrius Facilities and XpressNetwork Utility User Guide for more information.

Using the Hostname

Devices have a factory-default hostname that you can use instead of an IP address to connect to it. The hostname can be used in a Web browser's address bar or in the EC-gfxProgram's **Connect to** screen. When installing the latest version of EC-gfxProgram and your PC does not have the Bonjour service installed, a link to install the Bonjour service is provided. The Bonjour service must be installed on your PC to allow your PC to discover controllers by their hostname.

If your PC is unable to resolve the device's hostname, you must connect your PC through Ethernet or Wi-Fi so that your PC only sees the device network. For example, in this case, your PC must be disconnected from all other networks such as a corporate network or the Internet. If necessary, temporarily disconnect your PC's network cable from its Ethernet port.

The factory-default hostname is **eclypse-xxxxxx.local** where **xxxxxx** is the last 6 characters of the MAC address printed on a sticker located on the device. See Communications Wiring.

For example, the sticker on the side of a controller shows that its MAC address is 76:a5:04:cd:4a:d1. Connect to the Web interface as follows:

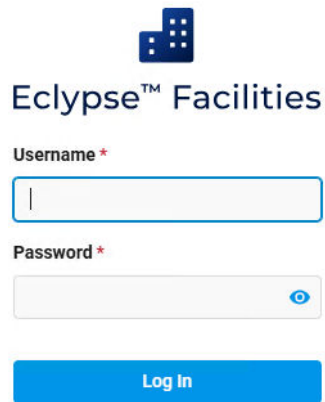
1. Open your Web browser.
2. In the Web browser's address bar, enter **https://eclypse-cd4ad1.local**.
3. Login to the device. Then set the configuration parameters in the configuration Web interface. See [Connecting to the Configuration Web Interface \[13\]](#).

Using the Ethernet IP Address

Once you have discovered the device's primary IP address (e.g., from the DHCP server or through the discovery process in XpressNetwork Utility), you can log in as shown below:

1. Open your Web browser.
2. In the Web browser's address bar, enter the IP address.
3. Login to the device. Then set the configuration parameters in the configuration Web interface. See [Connecting to the Configuration Web Interface \[13\]](#).

Logging in to the Configuration Interface



The login form for Eclipse Facilities. It features a blue icon of a building with a flag at the top. Below the icon is the text "Eclipse™ Facilities". The form includes two input fields: "Username*" and "Password*", both with red asterisks indicating required fields. The "Username*" field is a simple text box. The "Password*" field is a text box with a blue eye icon on the right side, indicating a password field. Below the password field is a blue "Log In" button.

When connecting to an Eclipse Controller or other IP device for the first time, you will be prompted to change the password for the admin account to a strong password to protect access to the device.

In Network Settings, configure the network parameters so that they are compatible with your network. See the [Eclipse User Guide](#) for more information about network settings and how to secure the device. It is important to create new user accounts with strong passwords to protect from unauthorized access. Remove the factory default admin account as this is a commonly known security breach (only the password for this user account needs to be compromised).

Configuring the Device's Settings

LED Ring

The device features a LED ring that can be configured using the LED Lights block in EC-gfxProgram and pre-defined scenes in the device's Web Interface. Please refer to the [EC-gfxProgram User Guide](#) and [Eclipse Facilities User Guide](#) for more information.

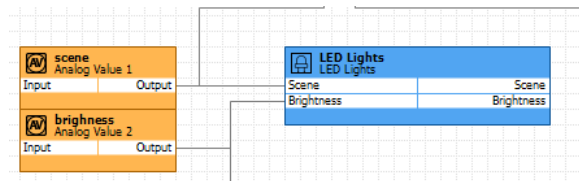


Figure 13. The LED Lights block in EC-gfxProgram

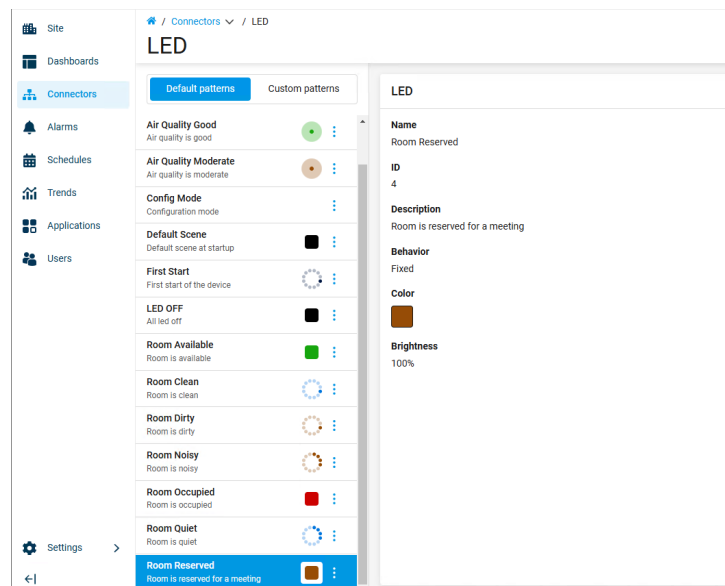


Figure 14. Pre-configured scenes in the device's Web Interface

People Counting and Presence Detection

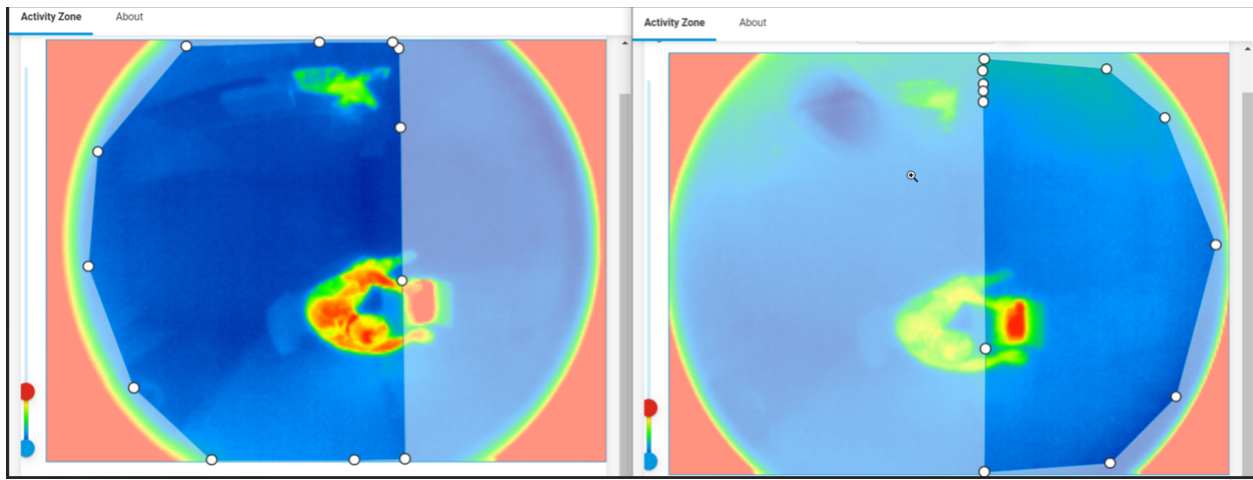
Depending on the installation, the background image refresh properties as well as the sensor's detection zone may need to be configured during commissioning.

Configuring the Detection Zone

Each device's detection zone can be modified to better reflect the shape of the space where it is installed. For instance, it can be used to exclude areas or to avoid overlaps with other devices' detection zones.

To configure the devices detection zone:

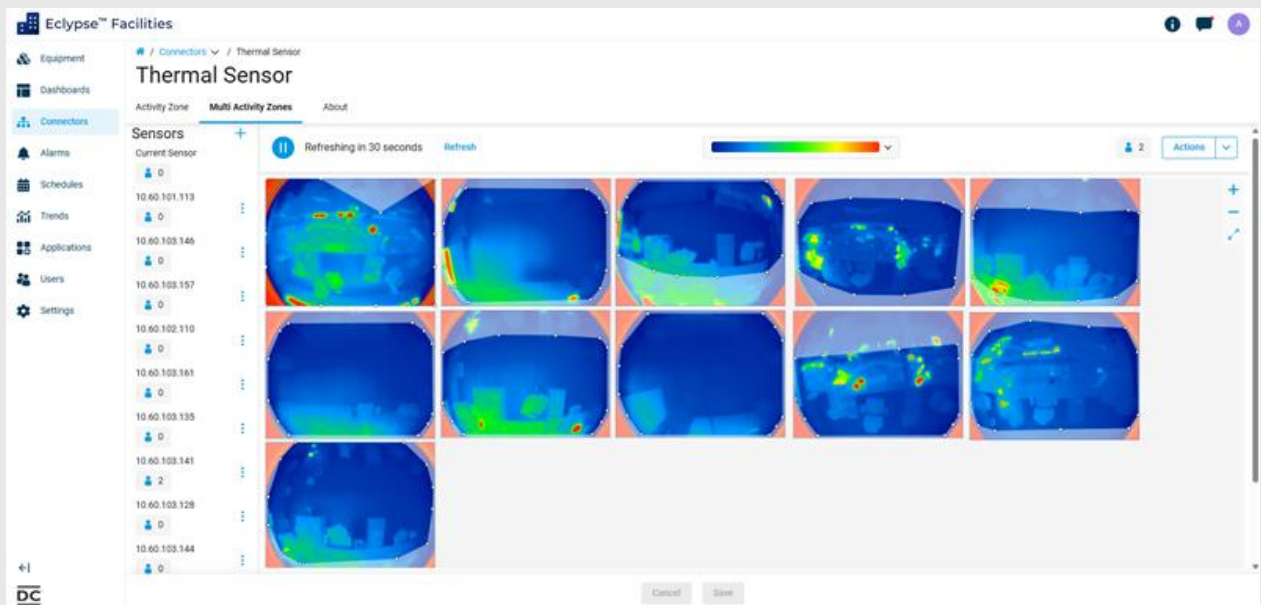
1. Access the device's Web Interface.
2. From the main menu, click **Connectors > Thermal Sensor**.
3. Select points on the edge of the detection zone and drag them to the desired position.



4. Click **Save** to save your changes or **Cancel** to restore the original shape.



To simplify zone configuration when multiple Resense Move devices are present, use the Multi View feature. See the [Eclipse Facilities User Guide](#) for more information.



Luminosity Level Measurement Calibration

As the luminosity level in a room is not homogeneous but depends on the measurement position and on the room layout (colors, desk position, light sources...), the luminosity level acquired by the device might not be the luminosity level at the workplace.

To precisely measure the luminosity level at the desired position, a calibration must be achieved.



Please note that the luminosity level calibration must be achieved at the approximate desired luminosity level.

To achieve luminosity level measurement calibration:

1. Position the lux meter at the exact position the user operates (typically on a desk).
2. Note the luminosity level value.
3. Luminosity level calibration can then be achieved by entering this value using the dedicated EC-gfxProgram BLE Room Device block.

Temperature and Humidity Sensing

The dew point can be calculated using the EC-gfxProgram. Please refer to the [EC-gfxProgram User Guide](#) for more information.

Bluetooth Connection Modes

The device supports several Bluetooth communication modes. Please refer to the [XpressNetwork Utility](#) or [Eclipse Facilities user guide](#) for more details on how to change this mode.

Mode	Description
Commissioning	Bluetooth connection is used for commissioning the device. This option is the factory default mode (default PIN code 999995) and has short range for commissioning purposes only.
Disabled	Bluetooth connection is disabled and does not allow any wireless connections to the device.
Open	Bluetooth connection is open and is not authenticated with a PIN code. We recommend for this option rooms or areas that are accessible to anyone.
Private	Bluetooth connection is authenticated with a six (6) digit PIN code. When this mode is selected, you will be prompted to change the PIN code as the default PIN code is not allowed while using Private mode. We recommend this option for private rooms and areas.

Using the Reset Button

Depending on the amount of time the reset button is held down, different actions are taken by the device.

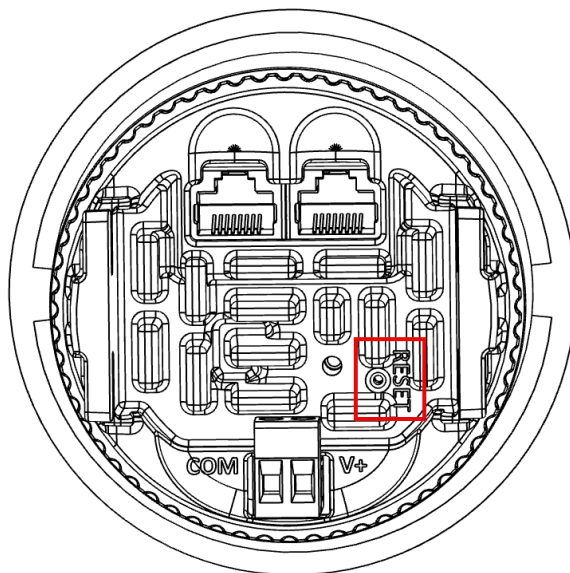


Figure 15. Reset button location

Hold Reset For	To
5 seconds	Restart / reboot the device
10 seconds	Reset both Ethernet and Wi-Fi IP addresses back to factory default settings
20 seconds	Reset the device to its factory default settings. User accounts (user names and passwords) will also be reset to the factory default settings and the device license will be cleared.



Always backup the device's license through the Web interface before you hold the reset button for 20 seconds. Once the device reboots, you will have to install the license through the Web interface.

After you hold the reset button for 20 seconds, the device's HTTPS security certificates will be regenerated. If you use HTTPS to connect to the device, you will no longer be able to connect to the device from any PC that was used in the past to connect to the device unless you delete the old HTTPS security certificate from these PCs.

Disposal

The Waste Electrical and Electronic Equipment (WEEE) Directive sets out regulations for the recycling and disposal of products. The WEEE2002/96/EG Directive applies to standalone products, for example, products that can function entirely on their own and are not a part of another system or piece of equipment.

For this reason Distech Controls products are exempt from the WEEE Directive. Nevertheless, Distech Controls products are marked with the WEEE symbol  indicating devices are not to be thrown away in municipal waste.

Products must be disposed of at the end of their useful life according to local regulations and the WEEE Directive.

North American Emissions Compliance



Changes or modifications not expressly approved by Distech Controls could void the user's authority to operate the equipment.



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna (if applicable).
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



This device complies with Part 15 of the FCC rules and with Industry Canada's license exempt RSS. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation of the device

Specifications subject to change without notice.

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