

## Wireless 1 & 2-Way PIR / PET Detector



Models: EL5845 / EL5845PI



### Installation Instructions

#### Description

The EL4845 / EL5845PI is a battery powered 1 & 2-Way wireless PIR / PET detector that is compatible with RISCO's 2-Way security systems.

#### Features include:

- 15m coverage (wide angle) with 90° field-of-view
- Installation height 2.4m
- 1-Way / 2-Way RF option (DIP switch selectable)
- 2 long-life lithium batteries for extended battery life
- Frequency: 868Mhz or 433Mhz
- PET Immunity option (45Kg animals)

#### Installation

##### Step1: Selecting a Mounting Location

Select the mounting location for best coverage of the area that is to be protected (see *Preliminary Considerations and Coverage Patterns*).

##### Step 2: Registering the Detector in the System

The detector must identify itself to the system's receiver (control panel) during the registration process.

1. Set the system to registration mode.
2. Go to the main menu and select [9] Programming > [1] Devices > [1] Zones.
3. Select a zone and press '✓'. The system enters into Learn mode.
4. Unlock and remove the mounting bracket from the detector (see *Figure 1 and Figure 3*).

5. Set the detector DIP switch settings (see *Figure 3 and DIP Switch Settings*).
6. Insert the supplied batteries into the battery holders paying attention to the correct polarity or remove the plastic protector strip if the batteries are already in place (see *Figure 3*).

The detector sends a transmission to the system. If the transmission is successfully received by the system it plays a confirmation sound.

If no confirmation sound is heard, send another transmission by pressing and releasing the tamper switch of the device (see *Figure 3*).

Once the detector is successfully registered the system display shows: Save?

7. Press '✓' to confirm and continue entering other parameters for the chosen device (see *Parameter Configuration*).

##### Step 3: Deleting the Detector in the System

To delete a detector in the system, perform the following procedure:

1. Go to the Installer menu and select zone >12> ✓ (quick key: 9>1>1>Zone#>12).
2. Open the detector and remove the battery.
3. Press the tamper switch down.
4. Put back the battery (while the tamper is being pressed).
5. Within 5 seconds, release the tamper switch and press down again.

##### Step 4: Mounting the Detector

The detector must be tested on the exact mounting position before permanently mounting.

1. Open the knockout holes of the mounting bracket, and use them as a template for mounting (see *Figure 2*).

NOTE: For use of back tamper, use at least one screw for back-tamper wall mount or corner mount (see *Fig 2*).

**For Pet friendly model:** In order to optimize pet immunity, always mount the detector vertically at a right angle to the floor. Make sure that an animal cannot get above the height of 1.5m (5') by climbing on furniture, shelving or stairs.

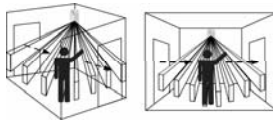
2. Once the bracket is installed, slide and lock the detector onto the mounting bracket.
3. Perform a Walk Test (see *Performing a Walk Test*).
4. Insert and fasten screw into the hole located at the bottom of the detector to lock the detector to the mounting bracket (see *Figure 4*).

##### Step 5: Performing a Walk Test

The detector needs approximately 90 seconds to warm up after applying power.

Go to the systems main menu and select [7] Service > [6] Walk Test and press '✓'.

During Walk Test mode, walk through the entire field of view of the detector and confirm that the LED activates and deactivates accordingly (see *LED Indication*).



Verify that the system receives the signals.

NOTE: Wait for ten seconds, after each detection, before continuing the test.

After completing the walk test, reset the system to Normal mode.

#### LED Indication

Status	Indication
On (in alarm mode)	Detection alarm
Blinking twice (in alarm mode):	Low battery
Blinking four times (in learning mode)	Successful registration

#### DIP Switch Settings

1-Way parameters can be modified from the DIP switch.

DIP	Function	Option
1	1-Way / 2-Way	OFF (1-Way / ON (2-Way)*
2	LED	OFF / ON*
3	Sensitivity	OFF (Low, 3m)* / ON (High, 6m)
4	Normal / Walk Test	OFF (Normal, 2,5 min)* / ON (Walk Test)

\* = Default

#### Parameter Configuration

2-Way parameters can be modified from the system.

Go to the main menu and select [9] Programming > [1] Devices > [1] Zones > [1].Sensor Par.

LED:	Enable* / Disable
PIR Sensitivity:	Low* / High
Alarm Delay:	1-20 minutes (3 mins.*)

\* = default

For additional information refer to the *System Installer Manual*.

#### Diagnostics

You can perform diagnostic tests on your detector using the system. Diagnostics includes testing the detector battery status and the communication between the detector and the system.

For additional information refer to the *System Installer Manual*.

#### Battery Replacement

1. Unlock and slide the detector from the mounting bracket.
2. Replace the batteries paying attention to the correct polarity.
3. Slide and lock the detector to the mounting bracket.

CAUTION – Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to local regulations.

#### Specifications

Electrical	
Battery Type:	2 x CR 123, 3V Lithium
Battery Life:	2 batteries – 3 year typical lifetime
Current Consumption:	58 µA standby; 200 mA max.
Supervision:	0-255 minutes
Transmission:	
RF transmitting frequencies:	868MHz, 433MHz - models EL5845 and EL5845PI
Optical	
Filtering:	White Light Protection
Pet friendly:	Up to a 45 kg animal immunity (pet model)
Physical	
Size (L x W x D):	120 x 65 x 35 mm (4.7 x 2.6 x 1.8 in)
Weight:	100 grams (3.52 oz.)
Environmental	
RF Immunity:	According to EN50130-4
Operating Temperature:	-10°C a 55°C (14°F a 140°F)
Storage Temperature:	-20°C a 60°C (-4°F a 140°F)

#### Preliminary Considerations



Do not install outside



Do not install near windows



Do not install near vents (air, heat, or AC)



Do not install near ceiling fans



Do not install in extreme temperatures



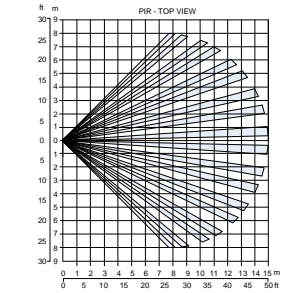
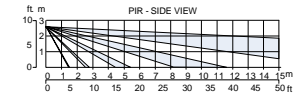
Do not install in direct sunlight



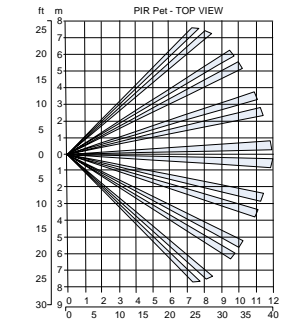
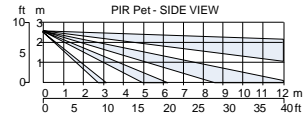
Ok for sites with small pets

#### PIR Coverage Patterns

##### PIR Model



##### PET Model



## Quick Install



Figure 1

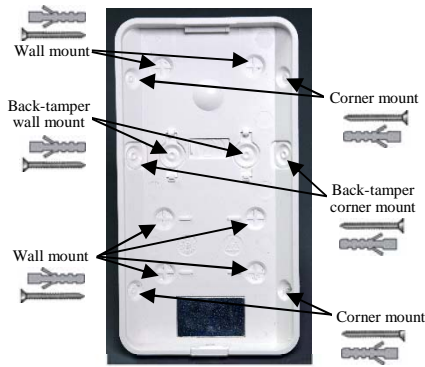


Figure 2

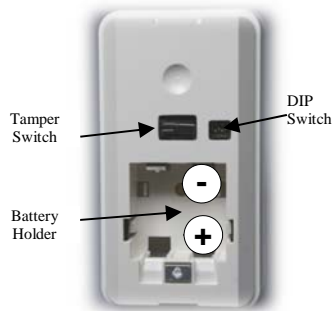


Figure 3



Figure 4

## Ordering Information

ESUSX45PIR0A E4USX45PIR0A	EL5845 1&2Way PIR, 868MHz / 433MHz
E8USX45PET0A E4USX45PET0	EL5845PI 1&2Way PET, 868MHz / 433MHz

## RTTE Compliance Statement:

Hereby, RISCO Group declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The declaration of conformity may be consulted at [www.riscogroup.com](http://www.riscogroup.com)

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