RF440I4 Wireless Outdoor PIR 433 MHz 63 bit Installation Sheet

EN

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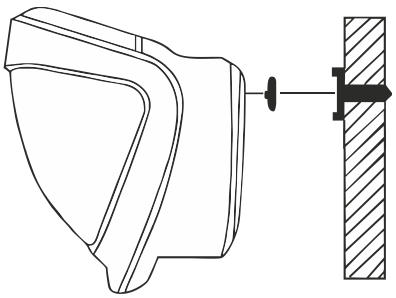

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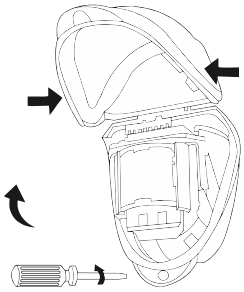

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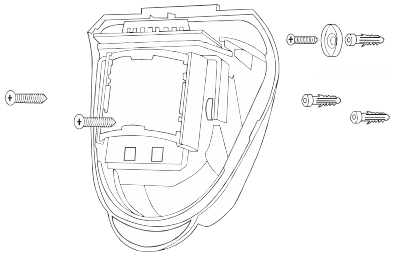

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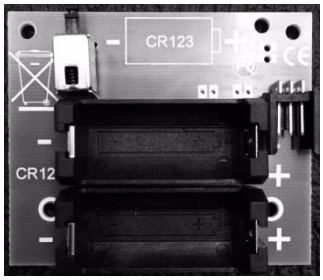

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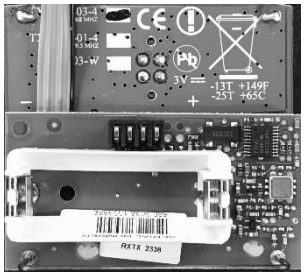

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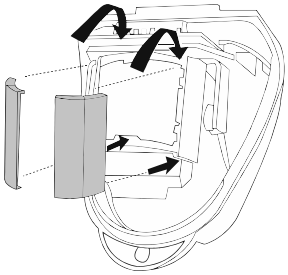

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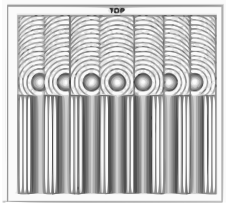

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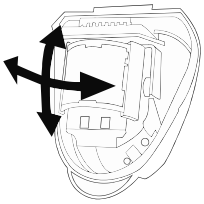

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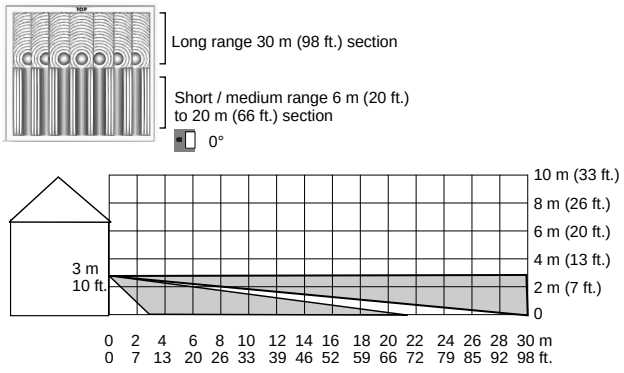

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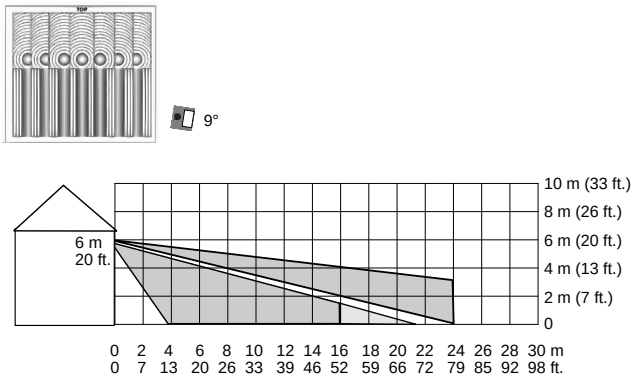

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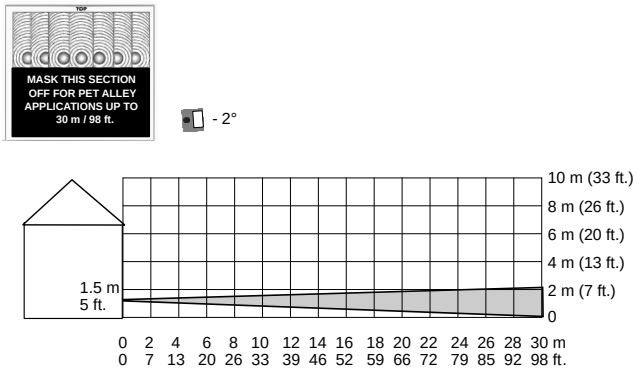

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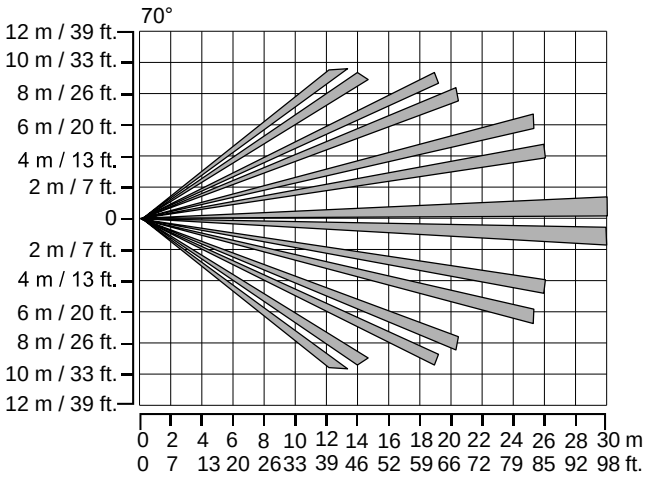

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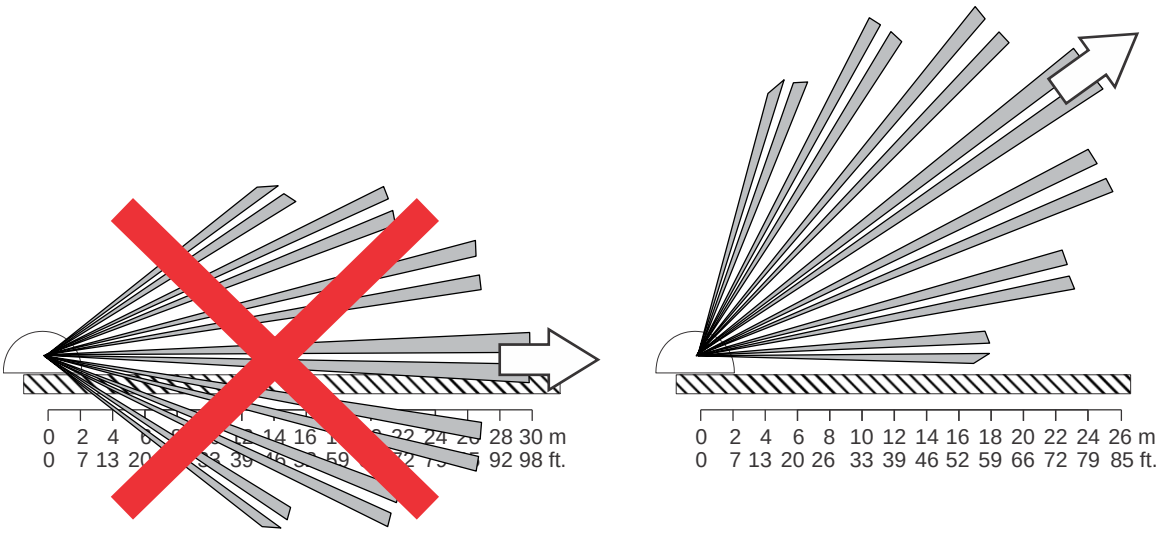

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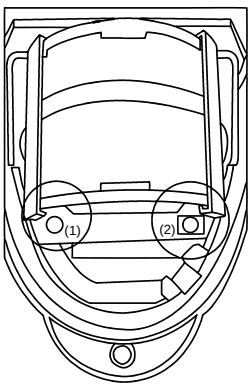

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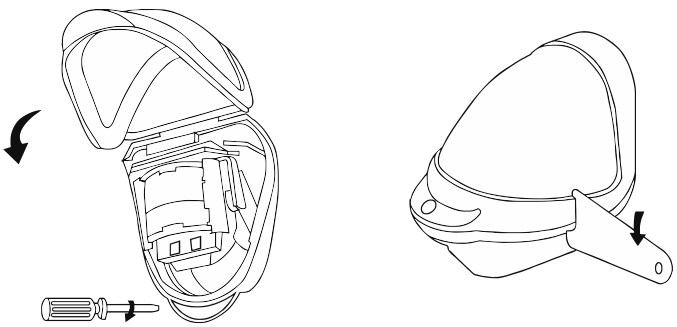

EN: Installation Sheet

Quick installation

1. Mount the detector following the instructions given later in this sheet.
2. Fit two CR123 batteries provided into the top battery case. Observe the polarity. See Figure 4.

   The detection LED (green) flashes three times.
3. Wait approximately 2 to 3 minutes to allow the detector to settle.
4. Press the programming button once to activate walk test mode.

   The detection LED is now enabled for five minutes.

Note: The front cover must be fitted when walk testing.

The default settings are:

- Range: 30 meters / 98 feet
- Pulse count: 1

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Mounting the unit

During installation, protect the electronics against water, as trapped moisture can affect or damage the unit.

We recommend that the screw mounting holes are sealed from within the detector using acrylic (*non*-silicone based) sealants.

Note: When locating the detector, please ensure the detector's field of view is unobstructed.

To mount the detector:

1. Drill the wall to accept the two fixing screws and the tamper cup (if used). See Figures 1 and 3.

   Notes
   - Leave a minimum 10 cm (4 inches) clearance above the top of the detector housing to allow the cover and the detector to be positioned correctly.
   - We recommend using the tamper cup on uneven wall surfaces.
   - The recommended optimum mounting height for the detector is 3 m. Whilst it is possible to mount the unit higher, this will give a reduced detection range and will require the detection subject to move further through the already reduced detection area before an activation is signalled.

2. Remove the cover assembly by loosening the locking screw. Squeeze the sides of the front cover to release the internal catches. The cover hinges from the top and lifts out of the location slot. See Figure 2.

3. Screw the unit to the wall ensuring that the tamper pin is correctly located and that the tamper microswitch is closed.

   To aid installation, two spare tamper feet are provided. One is 1 mm shorter and the other is 1 mm longer than the tamper foot originally fitted. The tamper foot is a push fit and can be removed by carefully pulling it from the pin. See Figure 1.

4. When the detector is aligned, connected, and programmed to suit the installation:
   a. Fit the cover to the detector base.
   b. Lightly screw the locking screw.
   c. Put the top of the locking tool into the small notch on each side of the cover, and then apply slight pressure until the cover locks into the base, as shown in Figure 15.
   d. Tighten the locking screw.

Batteries

WARNING: Risk of explosion if the battery is replaced by an incorrect type.

Only use CR123 3 V Lithium batteries (2X provided). This ensures 3 years operation under normal conditions.

To extend battery life, a 3rd battery can be fitted into the rear of the TX board. See Figure 5.

Observe correct polarity when fitting.

To preserve battery life the detector has a 2 minute sleep timer after a detection. This is reduced to 5 seconds during walk test. See also “Walk test” on page 4.

Multibeam alignment and masking

The detector module is fitted with two sliding shutters to reduce the detection angle. Shown in Figure 6. Additional curtain sliders are provided.

Each section of the detector lens gives a coverage pattern of approximately 10 degrees.

When coverage exceeds the desired detection area, adjust the module as required and mask off any beams, either vertically or horizontally, to avoid unwanted detection.

Use portions of the self-adhesive silver mask applied to the rear, smooth side of the lens as shown in Figure 11. Gently lift the top and bottom edges of the pan and tilt module to release the lens.

Always replace the lens the correct way up to ensure exact beam pattern coverage. The top of the lens is marked TOP as shown in Figure 7.

Table 1 below summarizes typical masking configurations for use when the range option is set to 30 meters.

Table 1: Masking configurations for maximum range

Configuration	Height (m / ft.)	Tilt (°)	Max. range (m / ft.)	Reference
Multibeam, optimum	3 / 10	0	30 / 98	Figure 9
Multibeam	6 / 20	9	25 / 82	Figure 10
Pet immunity [1]	1.5 / 5	−2	30 / 98	Figure 11

[1] Black area should be masked for pet alley applications up to 30 meters / 98 feet.

Figure 12 shows the pattern for the maximum range in the optimum position (see Figure 9). Masking the top section of the lens reduces the range to 20 m / 66 ft.

LEDs

The device has one green detection LED that is shown in Figure 14 as item 1.

Programming the detector

Pulse count

Pulse count is the number of times the detector must detect a presence before signaling an alarm.

When the pulse count is set to 1, the detector is most sensitive.

Figure 14

(1) Programming LED (green)
(2) Programming button

All available settings are listed in Table 2 below.

Table 2: Programming settings

		Value		
Option		**1**	**2**	**3**
1.	Range (m / ft.)	10 / 33	20 / 66	30* / 98*
2.	Pulse count	1*	2	

* Default settings

To change any of settings:

1. Press the programming button to select the option number you want to change. Press once for range and twice for pulse count.
2. Wait until the programming (green) LED turns off (typically 4 seconds).
3. Count the number of times the programming LED flashes to determine the current value for that option.
4. Press the programming button to select the value number for the new setting. Example: To set the range to 30 m / 98 ft., press three times.
   The programming LED blinks twice to indicate that the new value was set and stored in the NVM.

To reset the detector to the default settings:

1. Remove the batteries from the detector.
2. Press and hold the programming button (Figure 14, item 2).
3. Put the batteries back. Observe polarity.
4. After the programming LED flashes, release the programming button.

Programming control panels

For outdoor applications it is recommended to use the wireless detector as a pre-alarm device. Refer to the specific control panel manuals for details on programming.

Self-test function

The device has a self-test facility which sends a tamper signal if a fault is detected. If a fault has been detected, removing the front cover triggers the detection LED to flash 10 times.

Walk test

To enter the walk test mode, press the programming button once. The unit can then be aligned. The detection LED lights every time detection takes place.

The test mode ends automatically five minutes after last detection. Alternatively, press the program button twice, or remove and then reapply power to cancel the walk test mode.

Note: When you conduct a walk test, make sure that the front cover is in place.

Specifications

Detection range	Programmable: 10 m / 30 ft., 20 m / 66 ft., or 30 m / 98 ft.
Coverage	10 to 70° detection angle, 30 x 24 m / 98 x 79 ft. coverage max.
Adjustment	180° pan, 90° tilt
Fresnel lens	28 zones for each detection element, which can be masked with the curtain sliders
Customized optics	Double silicon shielded quad element eliminates 50,000 lux of white light
LED	Green: Detector alarm
Batteries	2X 3 V CR123 (3 years)* 3X 3 V CR123 (up to 5 years)*
Current	50 µA
Wireless operating frequency	433 MHz
Maximum power output	≤10 dBm
Pulse count	1 or 2
Temperature compensation	Analogue (thermistor) and digital sensitivity adjustment
Control	Digital microprocessor with non-volatile memory
Walk test	Output test mode with LED indication.
Operating temperature	−25 to +65°C / −13 to 149°F
Housing	High impact ABS plastic with HDPE cover, UV stabilized
Dimensions, W x H x D	125 x 175 x 130 mm / 4.92 x 6.89 x 5.12 in.
Weight	334 g net, 555 g gross / 11.77 oz net, 19.68 oz gross
Mounting height	Variable up to 6 m / 20 ft. Optimum height 3 m / 10 ft. for full range

* Under normal operations

Regulatory information

Manufacturer	Placed on the market by: UTC Fire & Security Americas Corporation, Inc. 3211 Progress Drive, Lincolnton, NC, 28092, USA Authorized EU manufacturing representative: UTC Fire & Security B.V. Kelvinstraat 7, 6003 DH Weert, Netherlands
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