

RF430I4 Mini Outdoor Wireless PIR 433 MHz 63 bit Installation Sheet



















EN: Installation Sheet

Mounting the unit

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

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 fixing screws using the drilling template provided. Leave a minimum of 10 cm clearance above the top of the detector housing to allow the cover and the detector to be positioned correctly.
- Remove the back wall fixing plate. Screw the back plate to the wall. Always ensure that one of the fixing screws is used to secure the rear tamper plate to the wall (Figure 1, item 1) as well as using the other screw fixing points (Figure 1, item 2). Fit the detector main body to the back plate.
- 3. Remove the 2 battery compartment screws and remove the battery compartment cover (Figure 2).
- 4. Fit the two batteries provided. Please observe the correct polarity (Figure 3). Replace the battery compartment cover and secure the 2 fixing screws (Figure 2).
- Remove the detector cover assembly by loosening the front locking screw. Use the opening tool as shown in Figure 4 to carefully lever the front cover away from the detector base. The cover hinges from the top and lifts out of the location slot (Figure 5).
- 6. Fit the detector main body to the back plate.
- 7. When the detector is aligned and connected, fit the cover to the detector main body and 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 (2 x provided). This ensures 3 years operation under normal conditions.

To extend battery life, a 3rd battery can be fitted into the spare position within the battery holder (Figure 3).

To preserve battery life the detector has a 2-minute sleep timer after detection. This is reduced to 5 seconds during walk test.

Multibeam alignment and masking

The detector module is fitted with two sliding shutters to reduce the detection angle.

The curtains are fitted to the pan and tilt module as shown in Figure 7. Each section of the detector lens gives a coverage pattern of approximately 14 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 an example for pet alley masking refer to Figure 8. To replace the lens, begin by sliding one side of the lens into the clips on the pan and tilt module. After one side is secure, do the same for the opposite side ensuring the lens is the correct orientation with the smooth side facing in and the two rows of circles to the bottom.

Always replace the lens the correct way up to ensure exact beam pattern coverage as shown in Figure 8.

Table 1 below summarizes typical alignment and masking configurations.

Table 1: Beam	alignment	& masking	configuration
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Configuration	Height (m)	Tilt (°)	Max. range (m)
Multibeam, optimum	3	5	15

Pet immunity [1] 1.5 -2 15 [1] Black area should be masked for pet alley applications up to 15 meters.

Figure 9 shows the pattern for the maximum range in the optimum position and the top view of the beam pattern.

Selectable options

Figure 6, item 1 shows the Pulse Count selection jumper positions.

Pulse count

Pulse count is the number of times the detector must detect a presence before signalling an alarm. Pulse count 1 is the most sensitive.

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.

Walk test & settling time

Allow 3 minutes for the electronics to settle when power is applied before commencing the walk test.

The walk test mode starts as soon as either or both tamper switches are opened. In walk test mode the red LED (figure 10) is activated. Walk test mode remains active until both tamper switches are closed i.e. the detector is securely mounted to the wall and the cover is closed. When both switches have been closed a 5 minute time will start. After 5 minutes of both switches being closed, the walk test will finish irrespective of any detections. Opening either of the tamper switches at any time will reset the 5 minute count timer.

Whilst in walk test mode the red detection LED will light each time the wireless detector detects your presence.

Note: When you conduct a walk test, make sure that the front cover is in place. Do not conduct walk tests with the cover removed.

The range of the detector increases without the protective front cover. Therefore the front cover must be fitted to establish the correct beam pattern. Pan and tilt the lens module over the field of view to obtain the correct coverage area.

Specifications

Coverage	14° to 70° detection angle, 15 m x 13 m coverage max.	
Adjustment	90° pan, 45° tilt	
Fresnel lens	20 zones for each detection element, which can be masked with the curtain sliders	
Customised optics	Double silicon shielded quad element eliminates 50,000 Lux of white light	
LED	Red: Walk test indicator	
Batteries	2x 3 V CR123 (up to 3 years)*	
	3x 3 V CR123 (up to 5 years)*	
Current	50 μΑ	
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	
Housing	High impact ABS plastic with HDPE cover, UV stabilised	
Dimensions W x H x D	70 mm x 120 mm x 95 mm	
Weight	218 g net, 351 g gross	
Mounting height	Variable up to 6 m.	
	Optimum height 3 m for full range	

Regulatory information

Manufacturer	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		
Certification	CE		
Environmental class	IP65		
Warnings and Disclaimers	These products are intended for sale to, and installation by, an experienced security professional. UTC Fire & Security cannot provide any assurance that any person or entity buying its products, including any "authorized dealer," is properly trained or experienced to correctly instal security related products.		
	For more information on product warnings, refer to firesecurityproducts.com/policy/product- warning/ or scan the code.		
European Union directives	UTC Fire & Security hereby declares that this device is in compliance with the applicable requirements and provisions of all applicable rules and regulations, including but not limited to the Directive 2014/53/EU. For more information see: https://www.utcfssecurityproducts.eu/		
	2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.utcfssecurityproducts.eu/recycle/.		
	2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see:		

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