

# No.59-2184-2 2207-16

Battery operated model with 2 PIRs

FTN-R-PT with anti-masking

WIRELESS OUTDOOR DETECTOR FINI-B-YT/ FINI-BINI-YT

### Web instructions

FTN-R-PT

FTN-RAM-PT

Visit to the Web site to find web version. https://navi.optex.net/manual/50051/





## FEATURES

- Narrow Angle Detection
- Detection Range Adjustability (2m / 5m)
- Intelligent AND logic
- Digital Anti-Masking (RAM model)
- Horizontal Adjustability
- Tamper Output
- Wall Tamper (option)

## CONTENTS

## INTRODUCTION

1

# BEFORE INSTALLATION

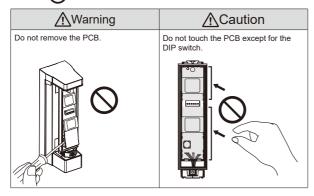
 Arring
 Failure to follow the instructions provided with this indication and improper handling may cause death or serious injury.

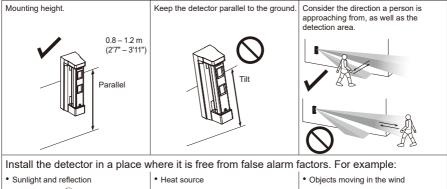
 Arrow
 Failure to follow the instructions provided with this indication and improper

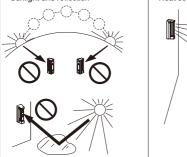
handling may cause injury and/or property damage.

The check 🗸 mark indicates recommendation.

The nix  $\bigotimes$  sign indicates prohibition.



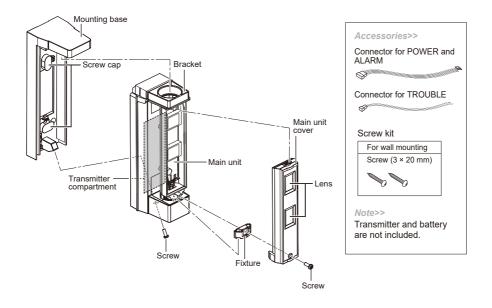




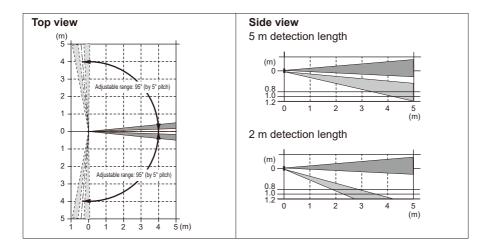




## **1-2 PARTS IDENTIFICATION**



## 1-3 DETECTION AREA

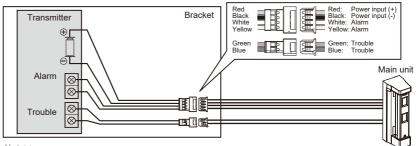


# INSTALLATION

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## 2-1 WIRING DIAGRAM

### - Overall wiring diagram

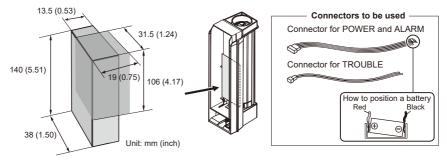


Note>>

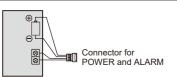
- The battery in the transmitter is shared with the detector.
- Connection for TROUBLE is used when monitoring for Tamper and Anti Mask.

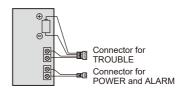
## **12** TRANSMITTER PREPARATION

The transmitter used should have the internal dimensions of H 140 x W 38 x D 13.5 mm (H 5.51 x W 1.50 x D 0.53 inches) or H 106 x W 31.5 x D 19 mm (H 4.17 x W 1.24 x D 0.75 inches)



- To monitor only the ALARM using a transmitter with 1 external input





- To monitor the ALARM and TROUBLE using

a transmitter with 2 external inputs

### - When monitoring ALARM and TROUBLE using the transmitter with 1 external input



External input is N.C.

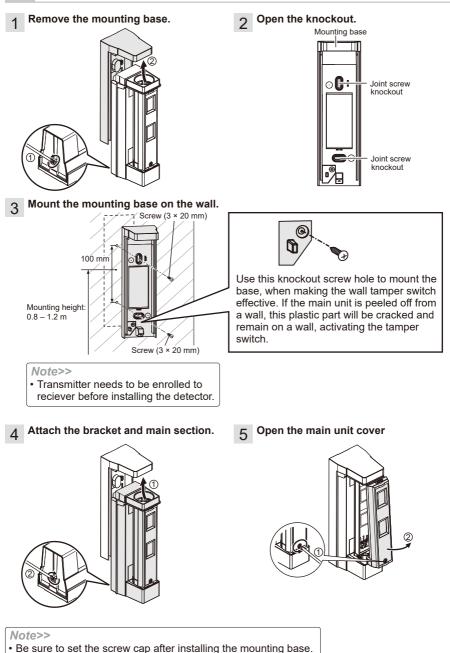
DIP switch 3: OFF (N.C.)



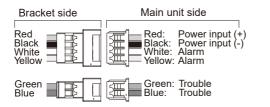
External input is N.O.

... DIP switch 3: ON (N.O.)

## 2-3 MOUNTING



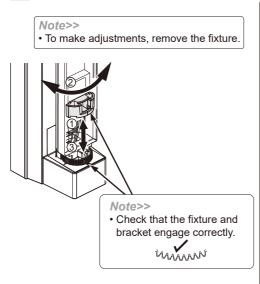
## 6 Plug the connectors.



### Note>>

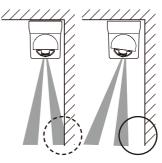
• The tamper output is not exclusive. The anti-masking and tamper circuits share the trouble output.

#### Determine the horizontal detection angle and attach the fixture. 7

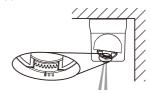


### Notes>>

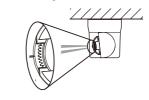
• Align the detection area parallel to the wall to reduce interference with the wall



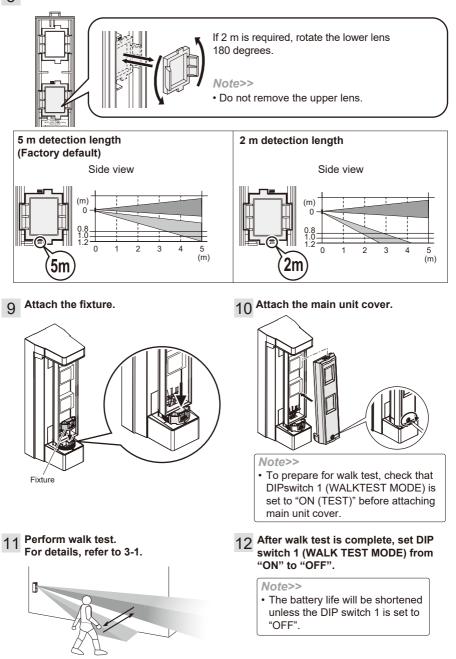
· When the unit is mounted on the corner to look ahead along the wall, choose the guide-mark located on the opposite side of the wall.



· When the unit is mounted on the wall to look transversely, choose the guide-mark engraved.



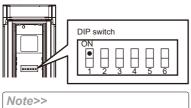
## 8 Determine the detection length. (2 m or 5 m)



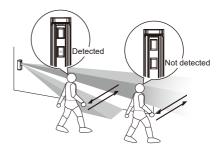
# 3 WALK TEST

## 8-1 WALK TEST

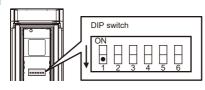
1 Set the DIP switch 1 (WALK TEST MODE) to "ON (TEST)".



 The switch is set to "ON (TEST)" by factory default. 2 Check that LED lights for 2 seconds when the intended object is detected.



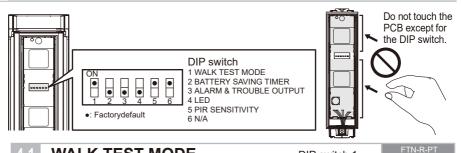
3 Set the DIP switch 1 (WALK TEST MODE) to "OFF (NORM)".



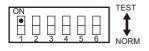
### Notes>>

- The battery life will be shortened unless the DIP switch 1 is set to "OFF".
- To use the LED in normal operating condition, set the DIP switch 4 to "ON".

# 4 DIP SWITCH SETTING



## 1 WALK TEST MODE



Position	Function
TEST (Factory default)	<ul> <li>The LED lights irrespective of the DIP switch 4 (LED) setting.</li> <li>The DIP switch 2 (BATTERY SAVING TIMER) setting is inactive.</li> </ul>
NORM	<ul> <li>The LED lights depending on the DIP switch 4 (LED) setting.</li> <li>The DIP switch 2 (BATTERY SAVING TIMER) setting is active.</li> </ul>

DIP switch 1

4-2 BATTERY SAVING TIMER		DIP switch 2	FTN-R-PT FTN-RAM-PT
	Position	Functior	ı
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5S	5 sec.	
<ul> <li>Note&gt;&gt;</li> <li>The detector will not generate alarms at intervals shorter than the specified time.</li> </ul>	120S (Factory default)	120 sec.	

4-3 ALARM & TROUBLE OUTPUT		DIP switch	3 FTN-R-PT FTN-RAM-PT
N.O. [ 6 3 ]	Position	Fur	nction
	N.O.	N.O. output	
<u>1 2 3 4 5 6</u> N.C. ┍━┓	N.C. (Factory default)	N.C. output	

4-4 LED		DIP switch 4 FTN-R-F	
ON ON	Position	Function	
	ON	LED ON	
1 2 3 4 5 6 OFF		LED OFF	
	OFF (Factory default)	<ul> <li>Note&gt;&gt;</li> <li>If the LED lights, check the DIP switch 1 (WALKTEST MODE) setting.</li> </ul>	

4-5 PIR SENSITIVITY		DIP switch 5 FTN-R-PT FTN-RAM-PT	
	Position	Function	
	STD (Factory default)	Normal sensitivity	
	LOW	Low sensitivity	



DIP switch 6



Position	Function
ON (Factory default)	ANTI-MASKING ON
OFF	ANTI-MASKING OFF

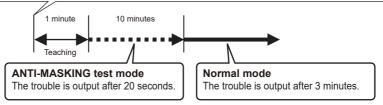
### -ANTI-MASKING function

When masking condition continues more than 3 minutes, TROUBLE will be generated.

TROUBLE is generated after 20 seconds under the anti-masking test mode.

Teaching mode starts when both the separate box cover and the main unit cover are attached.

Please be careful not to leave any object within 1 m from the unit.

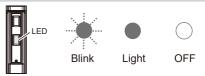


# OTHERS

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# 5-1 LED LIGHT PATTERN

The following explains the LED light pattern.



Detector condition	LED indicator
Warm-up Note>> • The LED blinks even if the DIP switch 4 (LED) is set to "OFF".	Blinks for approx. 120 seconds.
Alarm	Lights for 2 seconds.
Masking detection (FTN-RAM-PT only)	Blinks 3 times and then repeats.

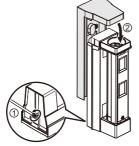
# BATTERY

6

The detector shares the battery with the transmitter. Check that the 2.5 to 10.0 V power battery is used for the transmitter.

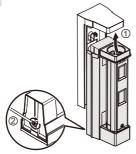
## 6-1 HOW TO REPLACE BATTERY

1 Remove the bracket and main section.





3 Attach the bracket and main section.



## 6-2 BATTERY LIFE

The values indicated are only for reference on condition that the detector is exceptionally operated by the sole battery. It is impossible to indicate the battery life under the normal operation as the battery in the transmitter is shared with the detector.

	Interval 120 sec	Interval 5 sec
CR123A (3 V, 1300 mAh)	Approx. 6 years	Approx. 5 years
CR2 (3 V, 750 mAh)	Approx. 4 years	Approx. 3 years
1/2AA (3.6 V, 1000 mAh)	Approx. 5 years	Approx. 4 years

### Notes>>

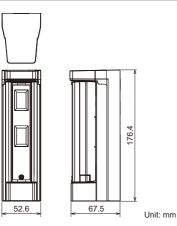
• Data shown here is when the LED is off, AM is on. Battery life becomes shorter when the LED is on.

## -1 SPECIFICATIONS

Model	FTN-R-PT	FTN-RAM-PT	
Detection method	Passive infrared		
PIR coverage	5 × 1 m (1	6'5" × 3'3")	
Detection length limit	2 m, 5 m (	6'7", 16'5")	
Detectable speed	0.3 – 1.5 m/s	s (1' – 4'11"/s)	
Sensitivity	2.0°C (at 0.6 m/s	s) (3.6°F (at 2'/s))	
Operation voltage	2.5 – 1	0 V DC	
Power input	3 – 9 V DC (Lithium	n or Alkaline Battery)	
Current draw	9 µA standby / 3 mA max. at 3 V DC	10 µA standby / 3 mA max. at 3 V DC	
Alarm period	2.0 ±1.0 sec.		
Warm-up period	Approx. 120 sec. (LED blinks)		
Alarm output	N.C./N.O. Selectable-Solid State Switch 10 V DC 0.01 A (max.)		
Trouble output	N.C./N.O. Selectable-Solid State	e Switch 10 V DC 0.01 A (max.)	
	Enable: During DIP switch 1 (WALK	TEST MODE) or DIP switch 4 (LED) ON	
LED indicator	Disable: During normal operation		
	Light/Blink: Warm-up, alarm, masking detection (FTN-RAM-PT only)		
RF Interference	No alarm 10 V/m		
Operation temperature	-20 - +60°C (-4 - +140°F)		
Environment humidity	95% max.		
Weatherproof	IP55		
Mounting	Wall (Outdoor, Indoor)		
Mounting height	0.8 – 1.2 m (2'7" – 3'11")		
Weight	180 g (6.4 oz.) without wireless transmitter and battery		
Accessories	①Connector for POWER and ALARM ②Conr	nector for TROUBLE ③screw (3 × 20 mm) × 2	

\*Specifications and design are subject to change without prior notice.

## DEMENSIONS



# < NOTE >

These units are designed to detect an intruder and activate an alarm control panel. Being only a part of a complete system, we cannot accept responsibility for any damages or other consequences resulting from an intrusion.

#### EU & UK contact information



https://navi.optex.net/cert/contact/



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