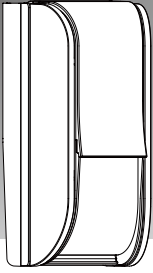


EN



High Mount Outdoor Curtain Detector

TXI series

BATTERY OPERATED MODELS

	PIR	Anti-masking	Microwave
TXI-R	✓	—	—
TXI-RDAM-X5	✓	✓	✓ (10.525 GHz)
TXI-RDAM-X8	✓	✓	✓ (10.587 GHz)
TXI-RDAM-X9	✓	✓	✓ (9.425 GHz)

<< Contents >>

1 Before Installation - Manufacturer's Statement - Parts Identification - Function Overview - Mounting Height - Standard Bracket Installation for Wall mount	Page 2
2 Installation - Disassembling the unit - Standard Bracket Installation for Wall Mount - with Side-Bracket - with Back-Bracket - Optional Bracket Installation for Wall/Ceiling Mount - for Wall Mount - for Ceiling Mount - Wireless Transmitter	6 8 9 11 17 19
3 Settings - DIP Switch Settings - Area Adjustment - Down zone on/off - Detection Distance Adjustment	21 22
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1 Before Installation

- Manufacturer's Statement

Symbol

Meaning



Warning

Failure to follow the instructions indicated here, or improper handling, may cause death or serious injury.



Caution

Failure to follow the instructions indicated here, or improper handling, may cause injury and/or property damage.

Symbol

Meaning



Check symbol indicates recommendation.

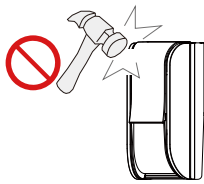


Prohibition symbol indicates prohibited actions.

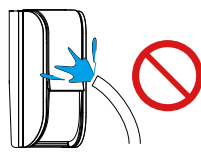
NOTE

Special attention is required to the section of this symbol.

Warning

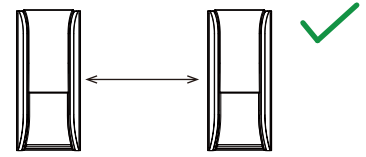
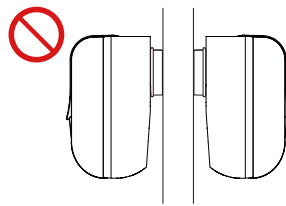


Destroy/Modify

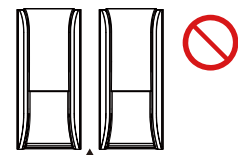
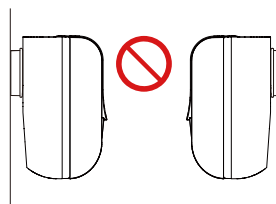


Water exposure

<TXI-RDAM only>

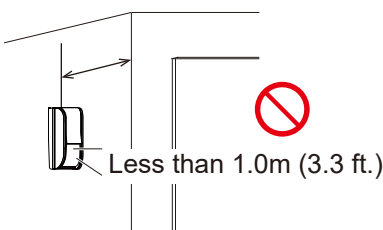
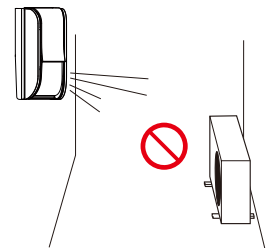
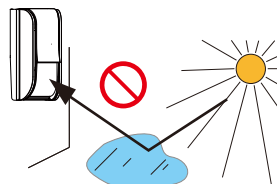
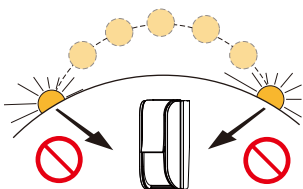


1.0m (3.3 ft.) or more

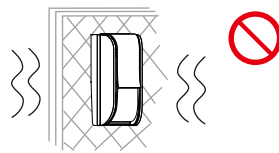


Less than 1.0m (3.3 ft.)

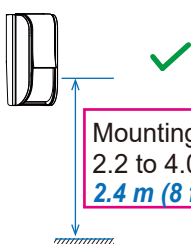
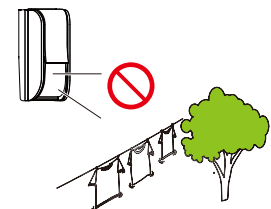
Caution



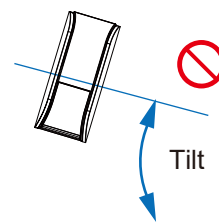
Less than 1.0m (3.3 ft.)



Mount on an unstable wall



Mounting height
2.2 to 4.0 m (7.2 to 13.1 ft.)
2.4 m (8 ft.) or 3.0 m (10 ft.) recommended



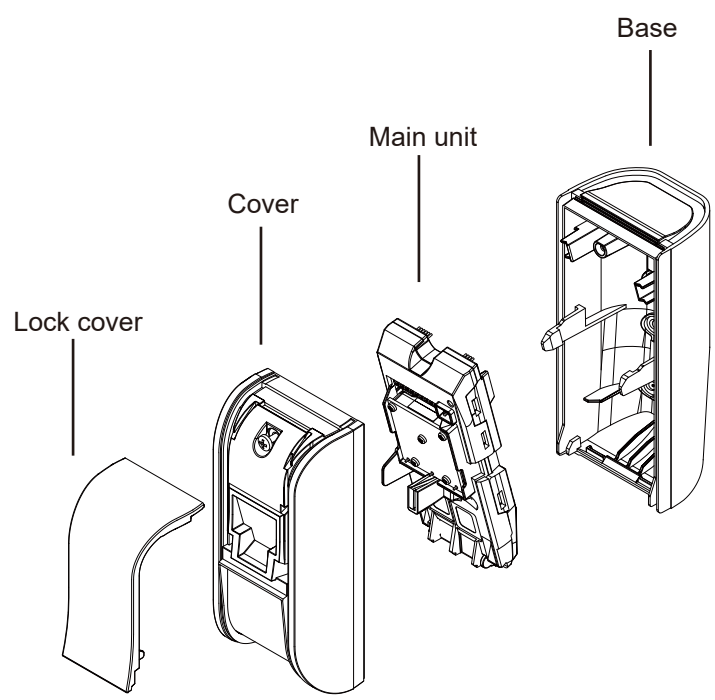
Tilt



Follow local regulations

- Parts Identification

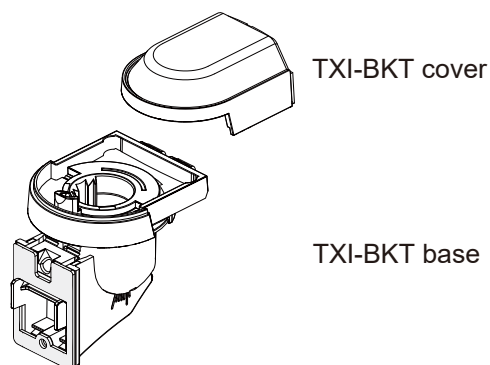
Accessories



- Mounting screw x 2
- Joint screw x 2
- Side-bracket x 1
(See page 5)
- Back-bracket x 1
(See page 5)
- Area adjustment plate 1
(See page 23)
- Area adjustment plate 2
(See page 23)
- Connector x 1
(See page 19)

Option

TXI-BKT: Bracket for angle adjustment
(See pages 10–18)



- Mounting screw x 4
- Angle adjustment screw x 1
- Joint screw x 1

- Function Overview

• Pet tolerance

This product is equipped with a triple AND logic to reduce false alarms.

The triple AND function activates the alarm only when infrared changes are simultaneously detected in three separate detection zones. This mechanism significantly reduces false detections caused by small pets.

(Refer to "3-1. DIP Switch Settings / 4")

• Accelerometer tamper

This product is equipped with an accelerometer that accurately detects movement and vibration.

An accelerometer measures changes in velocity (acceleration) when the device is moved, tilted, or subjected to impact. This enables the system to detect tampering, abnormal motion, or unauthorized handling, enhancing overall security performance.

(Refer to "3-1. DIP Switch Settings / 5")

• Anti-masking (TXI-RDAM only)

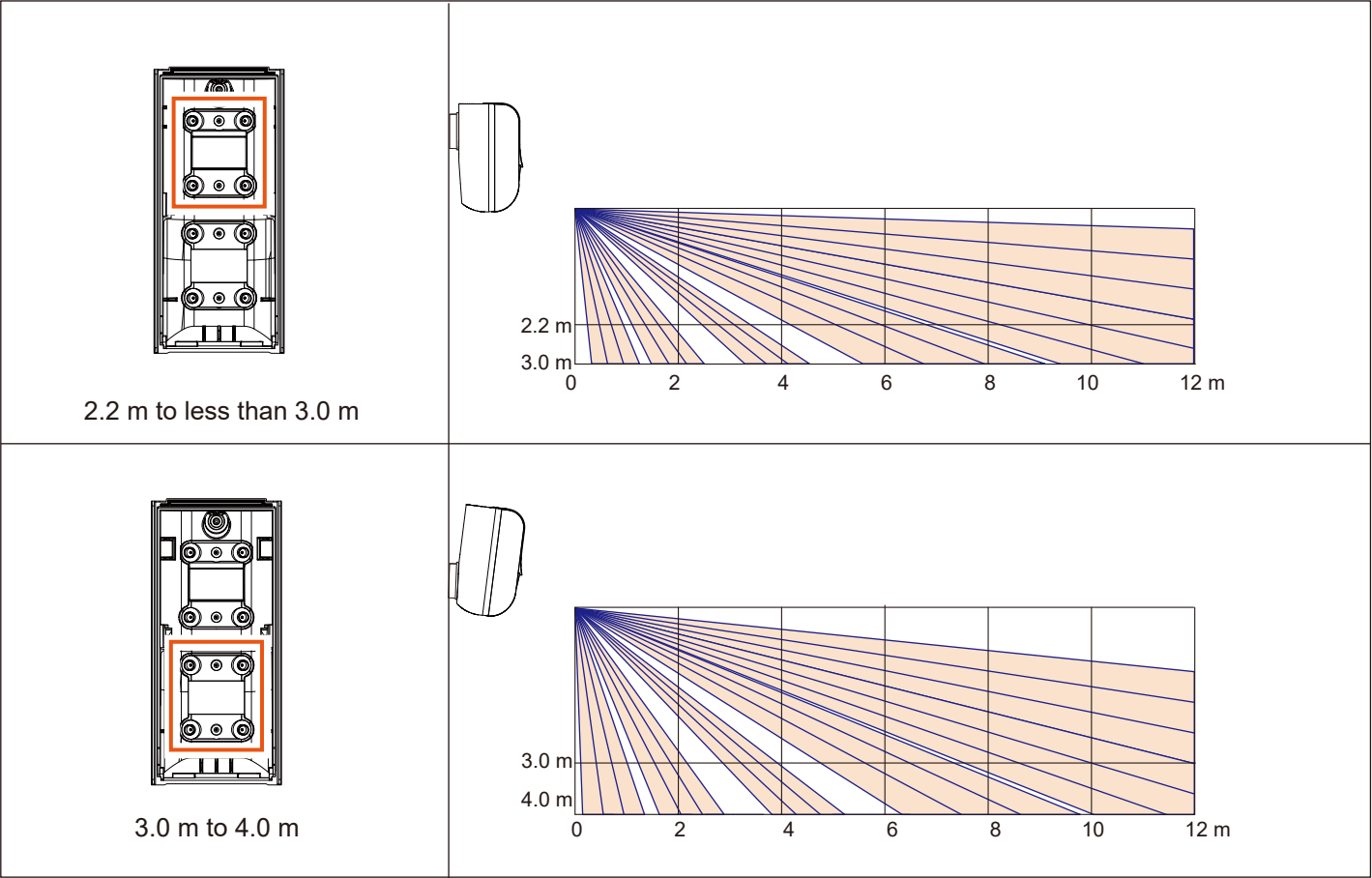
This product is equipped with an anti-masking function, which detects attempts to block or obscure the sensor's field of view.

Anti-masking refers to the ability to detect intentional interference with the sensor, such as covering the lens or placing objects in front of the sensor. This feature helps prevent tampering and ensures the security system remains effective.

(Refer to "3-1. DIP Switch Settings / 7,8")

- Mounting Height

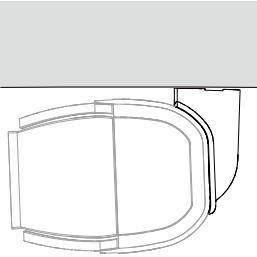
Side View



- Standard Bracket Installation for Wall Mount

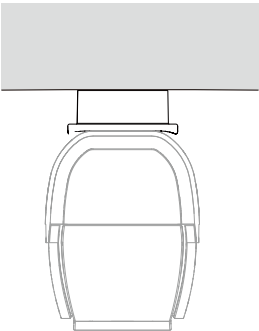
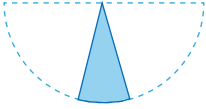
Top View

Left



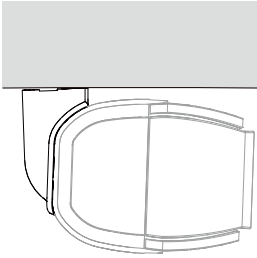
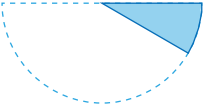
with side-bracket

Front



with back-bracket

Right

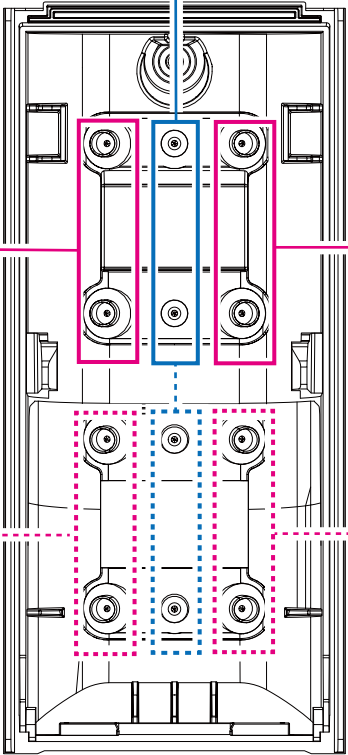


with side-bracket

Go to Page 8

Go to Page 9

Go to Page 8



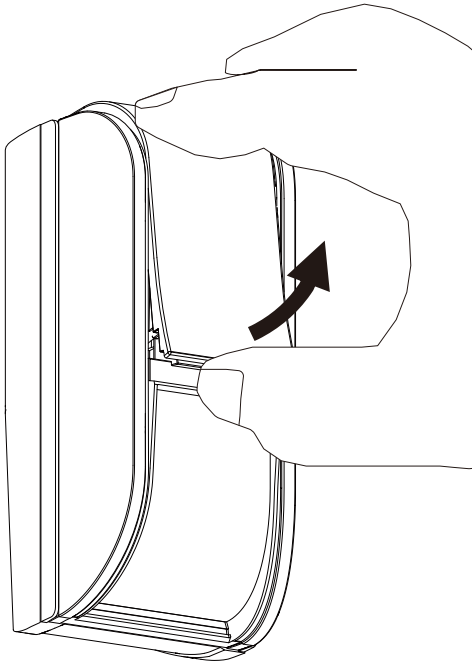
For mounting heights of 2.2 m to less than 3.0 m

For mounting heights of 3.0 m to 4.0 m

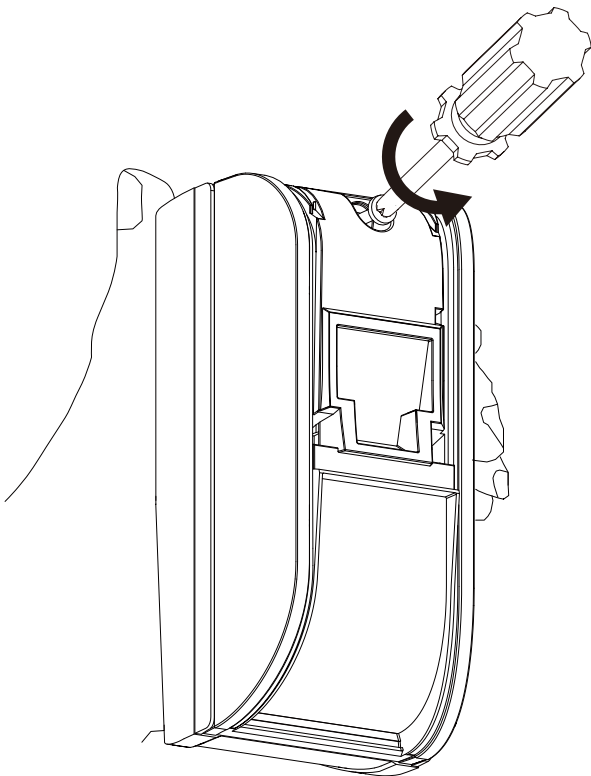
2 Installation

2-1. Disassembling the unit

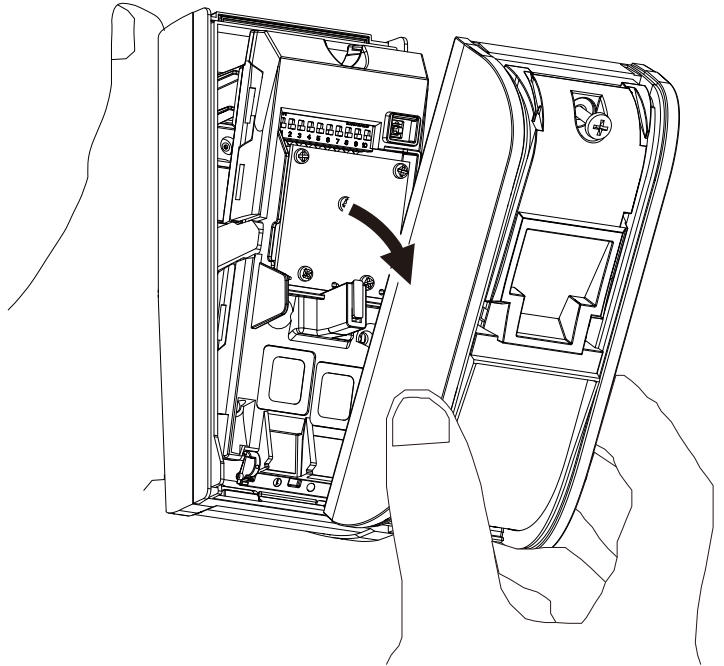
1 Remove the lock cover.



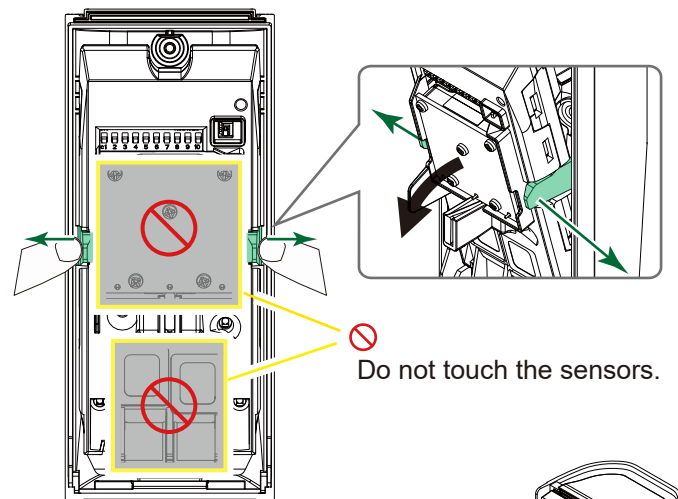
2 Loosen the fixing screw.



3 Open the cover.

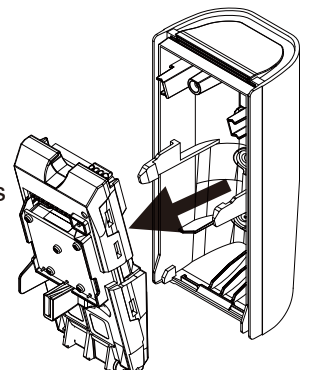


4 Remove the main unit.



NOTE

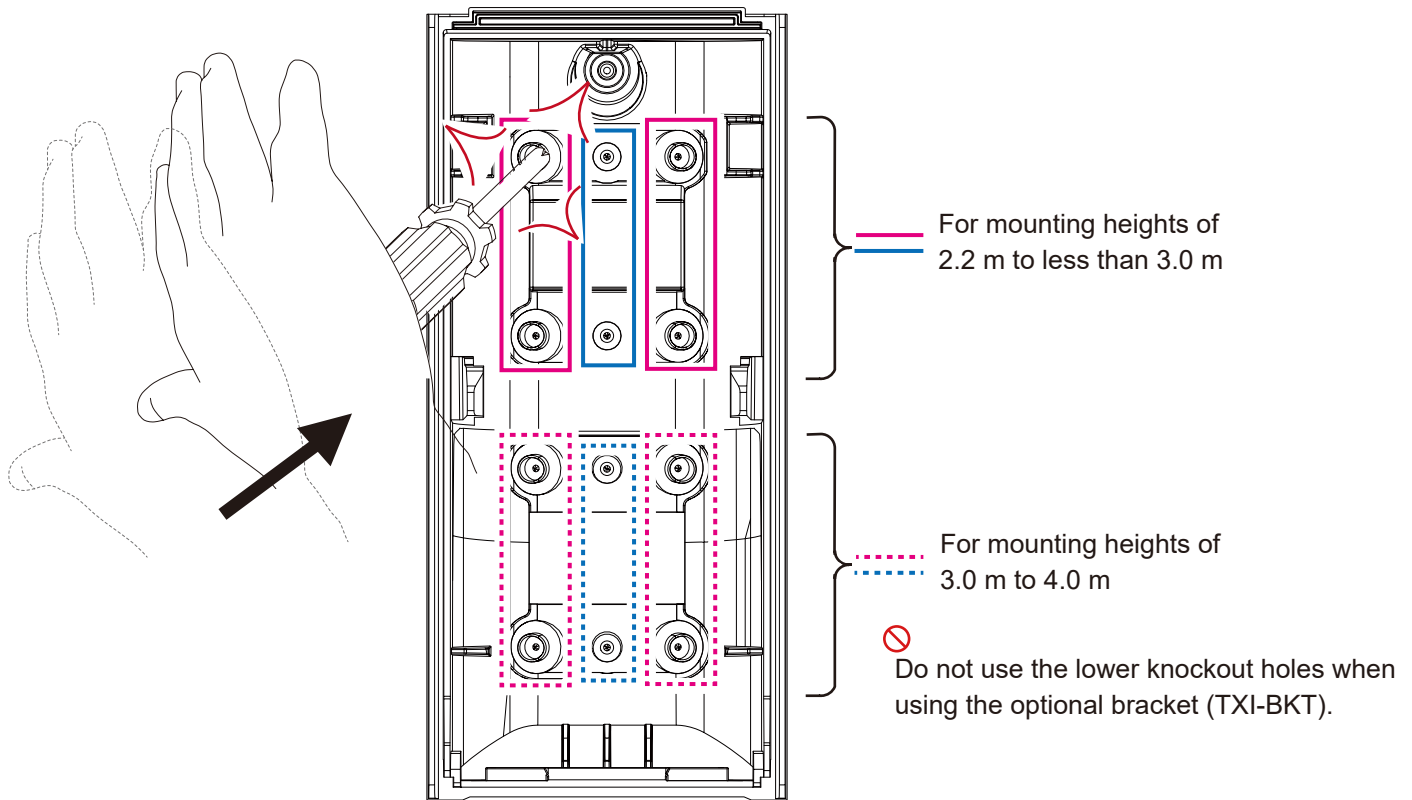
Opening the hooked part as indicated by the arrows makes it easier to remove the main unit.



- How to break the base knockouts

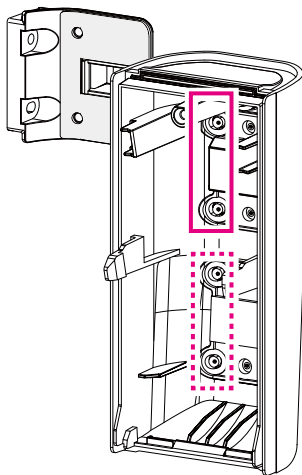
Mounting Knockouts

Break the mounting knockout holes.

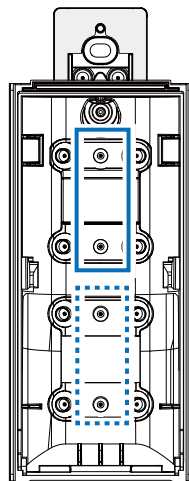


⚠ Caution

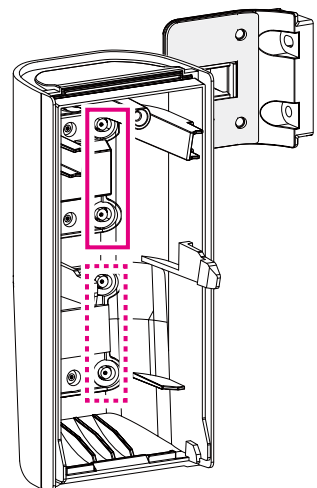
If the wrong knockout is opened, fill it with putty.



with side-bracket



with back-bracket



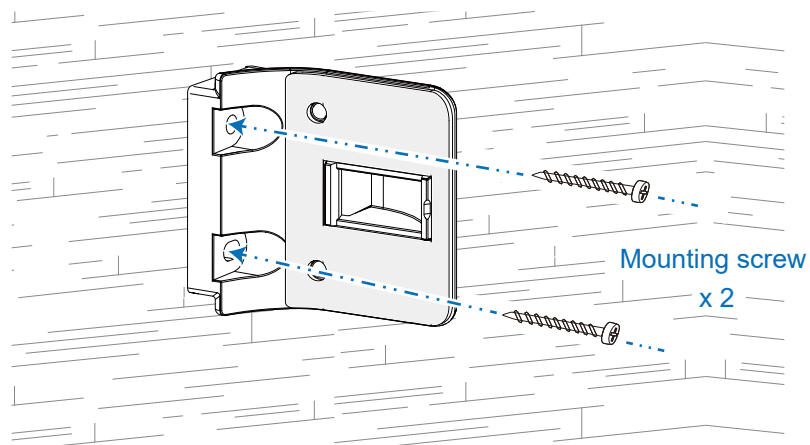
with side-bracket

NOTE

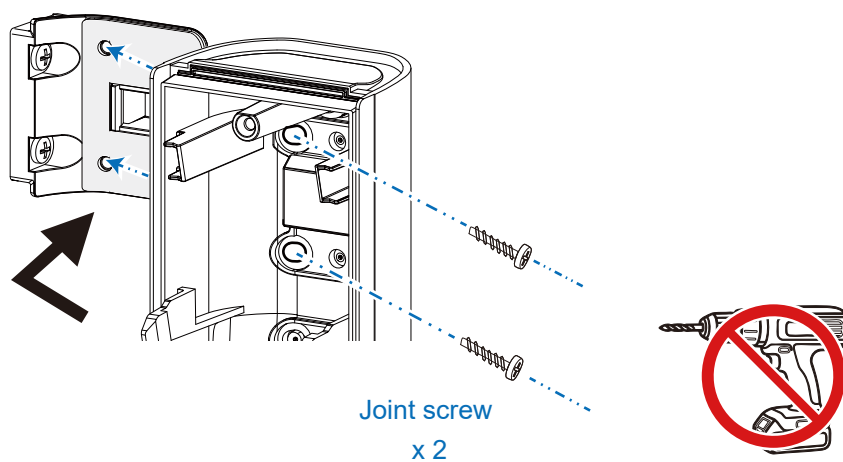
See page 5 for Standard Bracket Installation for Wall Mount.

2-2. Standard Bracket Installation for Wall Mount (Side-Bracket)

- 1 Fix the side-bracket parallel to the ground with the mounting screws.



- 2 Join the base to the side-bracket.



Do not use power tools.

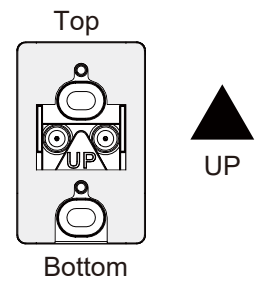
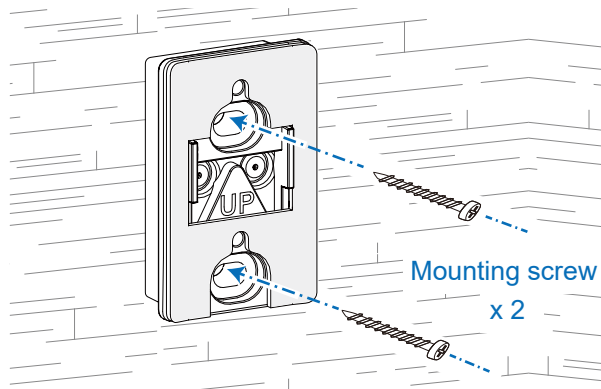
NOTE

See page 7 for Mounting Knockouts.

➔ Go to 19 Page

2-2. Standard Bracket Installation for Wall Mount ([Back-Bracket](#))

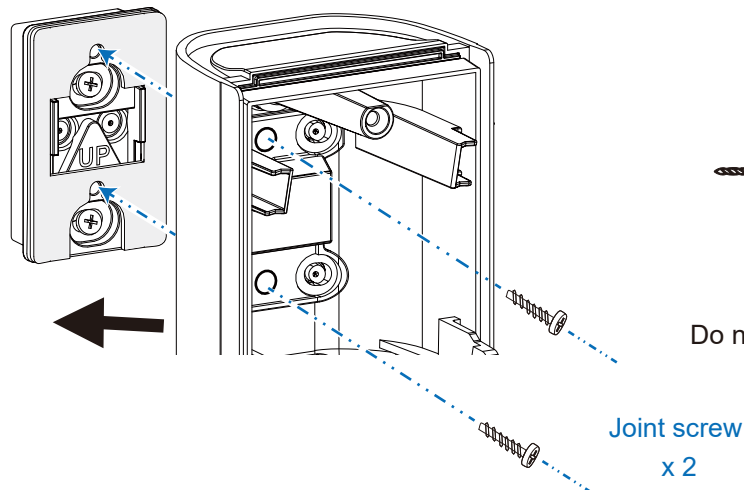
- 1 Fix the back-bracket parallel to the ground with the mounting screws.



NOTE

Check the orientation of the part (top and bottom).

- 2 Join the Base to the back-bracket.



Do not use power tools.

NOTE

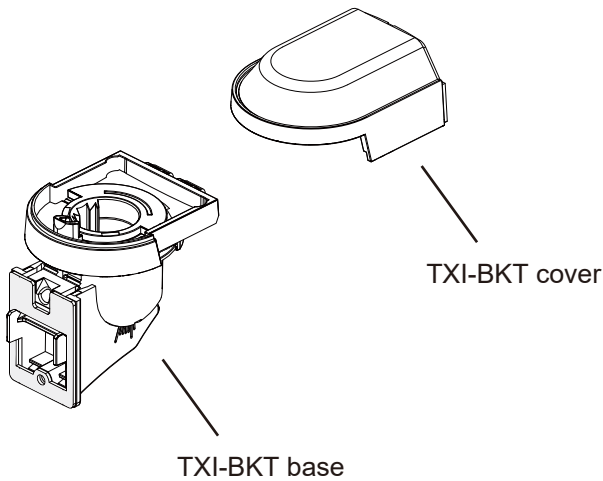
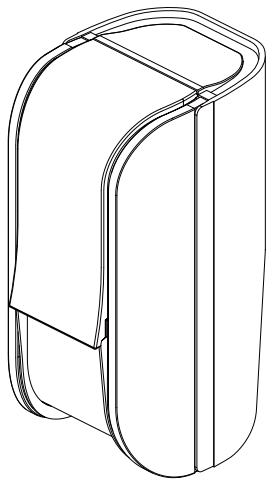
See page 7 for Mounting Knockouts.

➔ **Go to** 19 Page

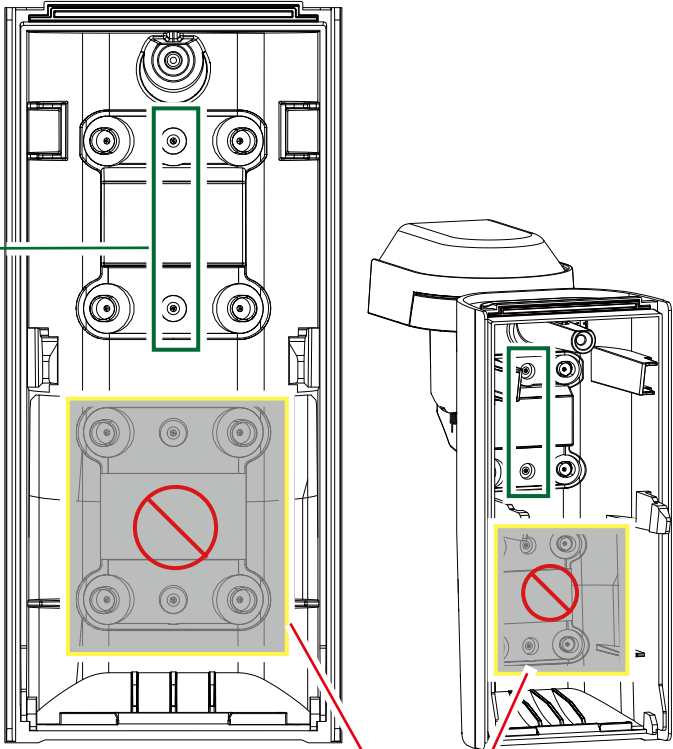
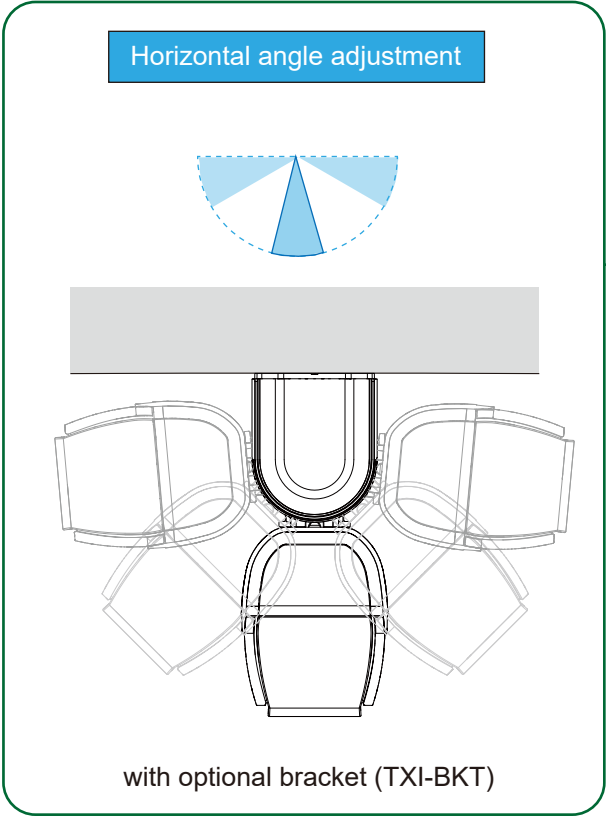
- Optional Bracket (TXI-BKT) Installation for Wall/Ceiling Mount

Adjustable angle

Horizontal	±86°
Vertical	+4° to -20°



Top View

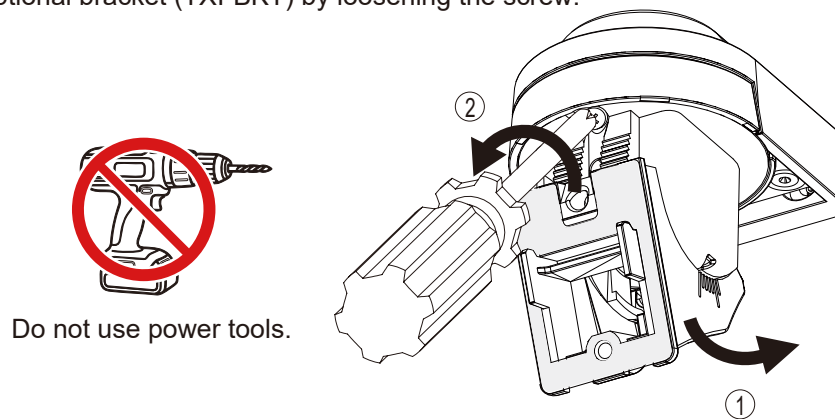


⊘ Use upper knockout holes only.
Do not use the lower knockout holes.

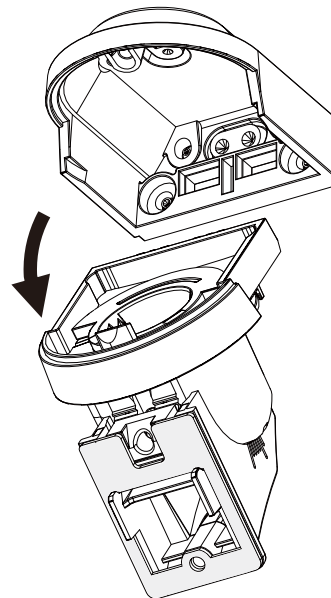
2-3. Optional Bracket (TXI-BKT) Installation for Wall Mount

1 Open the optional bracket (TXI-BKT).

- ① Swing downward.
- ② Open the optional bracket (TXI-BKT) by loosening the screw.

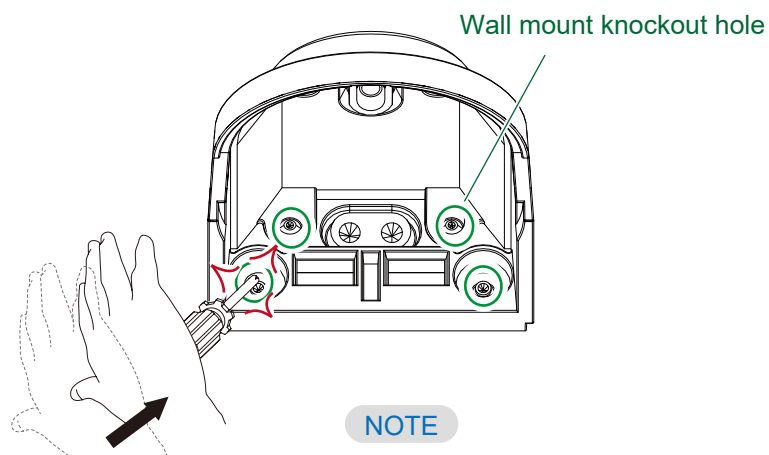


③ Remove the TXI-BKT cover.



2 Break the knockouts

< TXI-BKT cover >



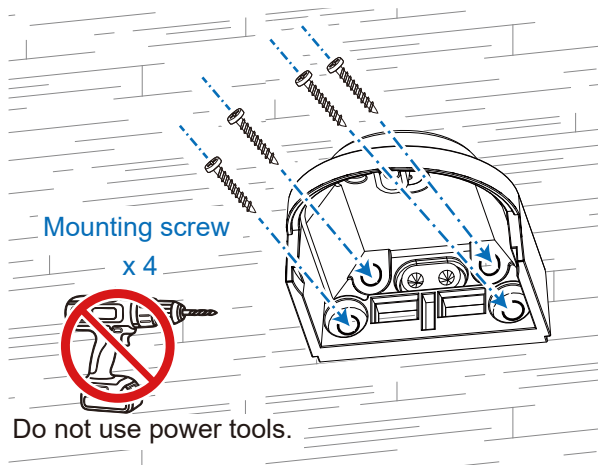
NOTE

For ceiling mount installation with the optional bracket (TXI-BKT), see page 17.

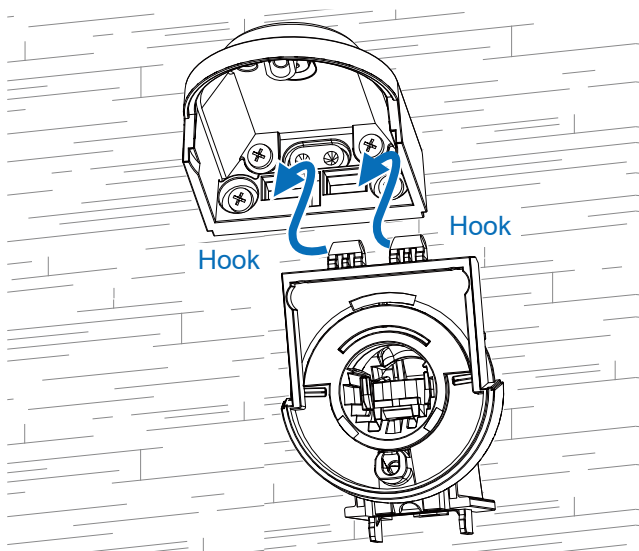
2-3. Optional Bracket (TXI-BKT) Installation for Wall Mount

3 Mount the optional bracket (TXI-BKT).

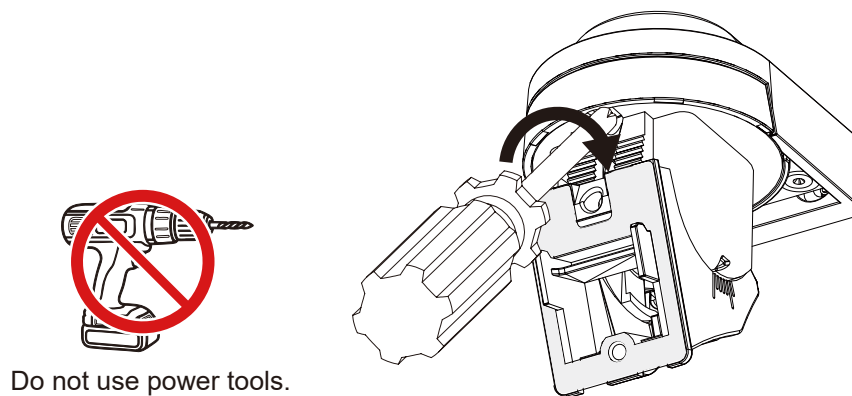
- ① Fix the TXI-BKT cover parallel to the ground with the mounting screws.



- ② Close the optional bracket (TXI-BKT).



4 Tighten the screw to close the optional bracket (TXI-BKT).



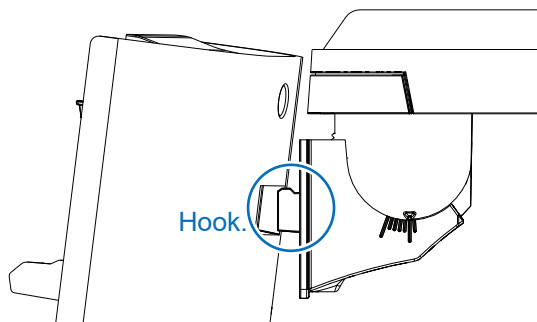
NOTE

Tighten the screw to enable horizontal rotation.

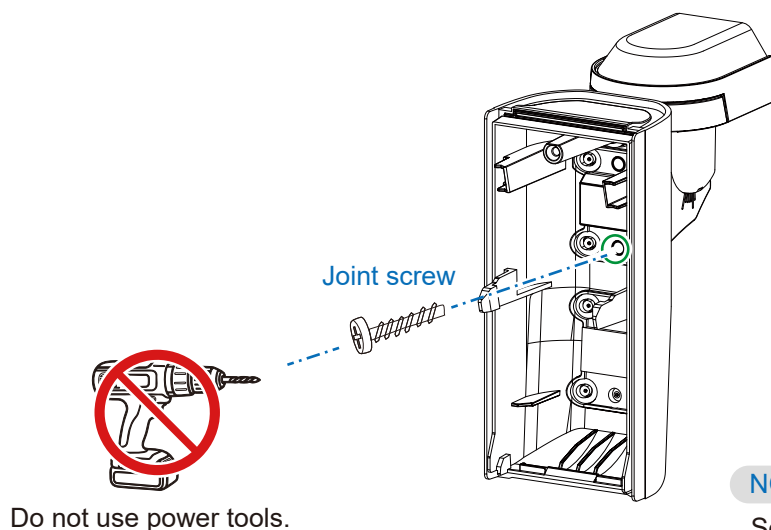
2-3. Optional Bracket (TXI-BKT) Installation for Wall Mount

- 5 Attach the base onto the optional bracket (TXI-BKT).

- ① Align the base with the TXI-BKT and join them.



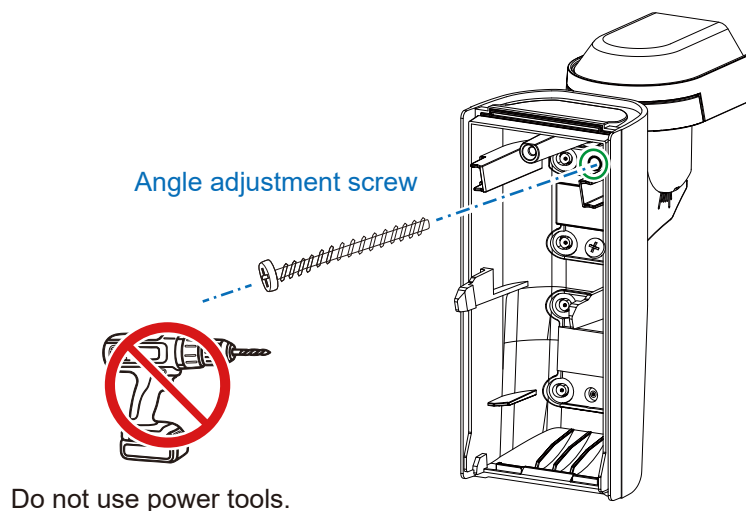
- ② Insert the joint screw into the lower mounting hole, and tighten it.



NOTE

See page 7 for Mounting Knockouts.

- ③ Insert the angle adjustment screw into the upper mounting hole, and tighten it partially.

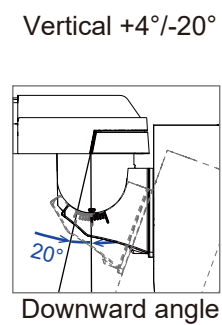
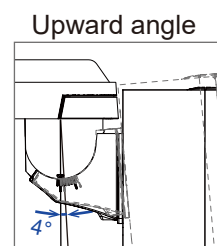
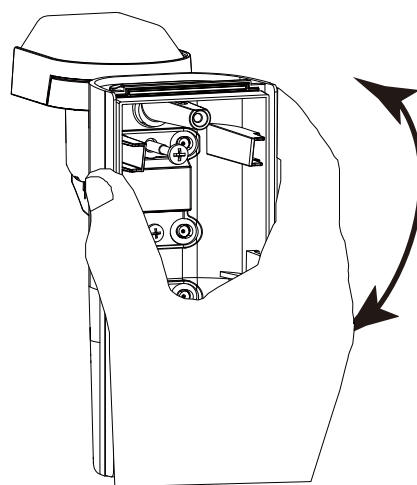
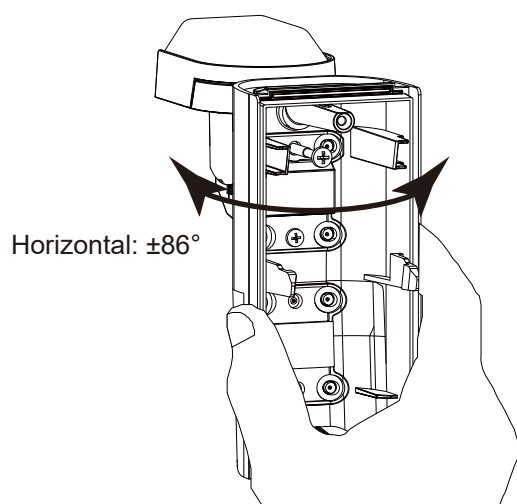


NOTE

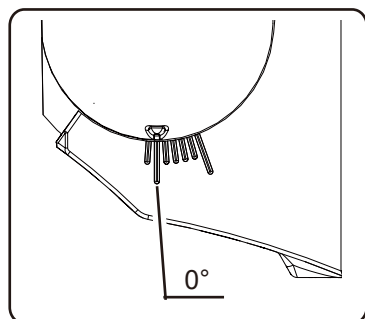
The angle adjustment screw should not be fully tightened. It will be secured after the angle adjustment in the next step.

2-3. Optional Bracket (TXI-BKT) Installation for Wall Mount

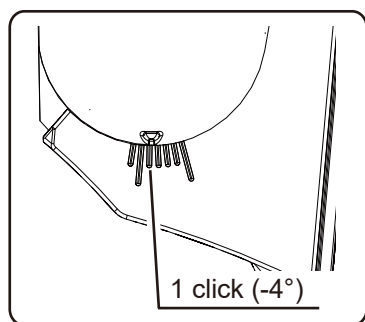
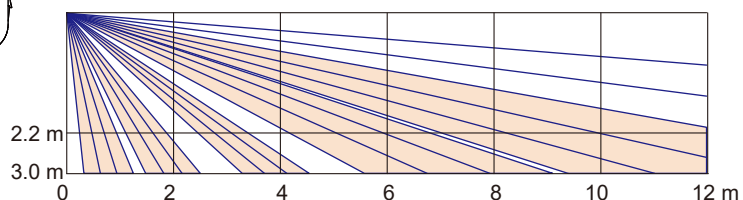
6 Adjust the sensor angle as needed



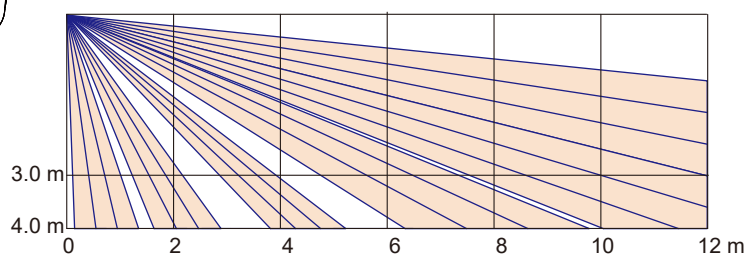
Side View



2.2 m to less than 3.0 m



3.0 m to 4.0 m



NOTE

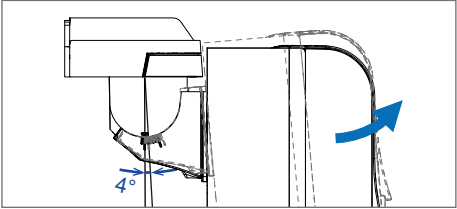
Change the angle depending on the installation height.

2-3. Optional Bracket (TXI-BKT) Installation for Wall Mount

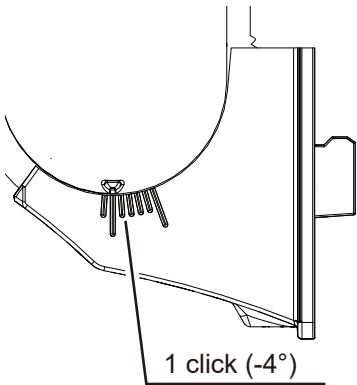
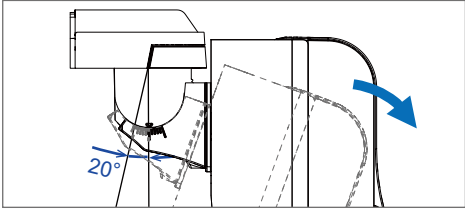
For best performance, install the detector parallel to the ground.
Decide the detection distance. If required, mask the unnecessary area of the lens with one of the two area adjustment plates provided.

If the base of the unit is not parallel to the ground

If the detection distance is shorter than the specified distance, adjust the detector angle upward.



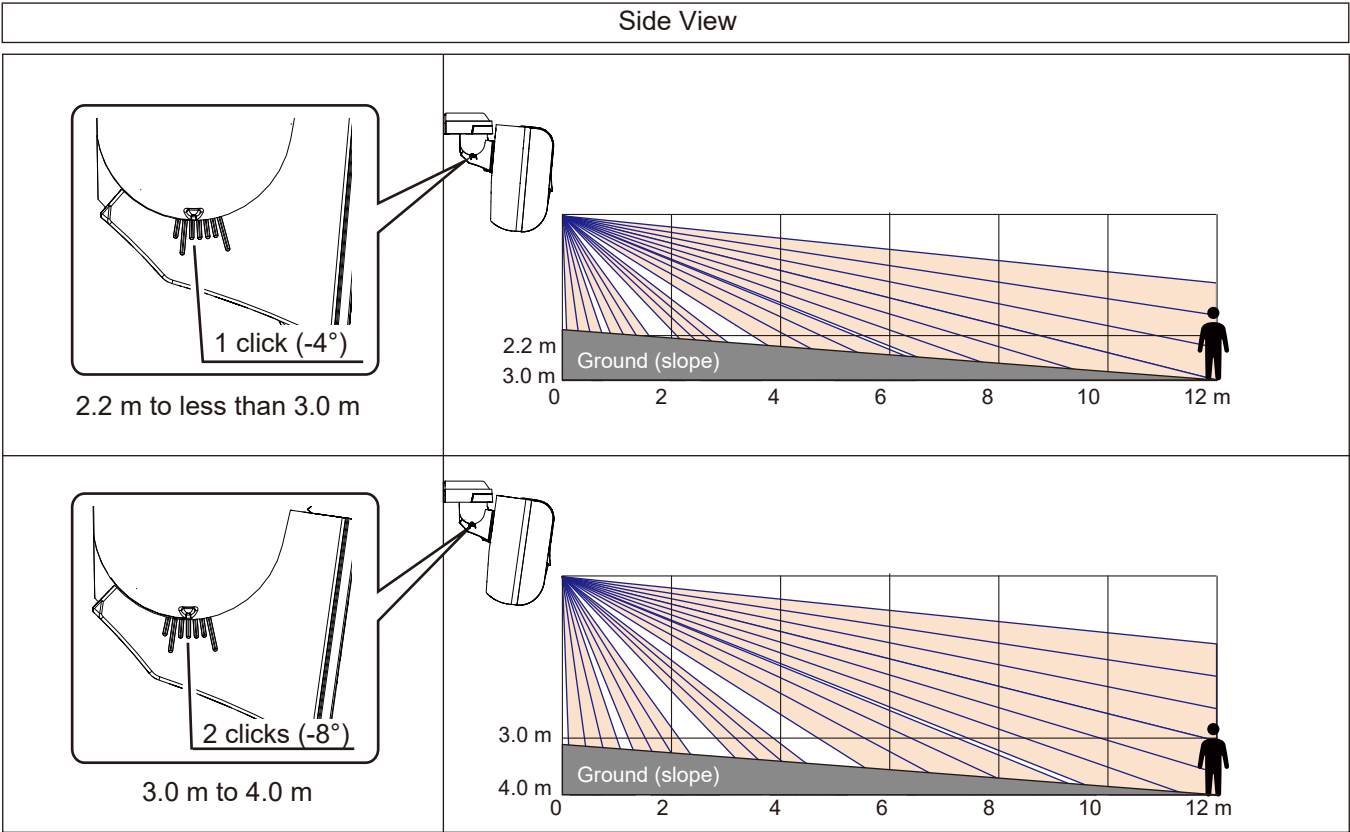
If the detection distance is longer than the specified distance, adjust the detector angle downward.



Upward	+4° (1 click)
Downward	-20° (5 clicks)

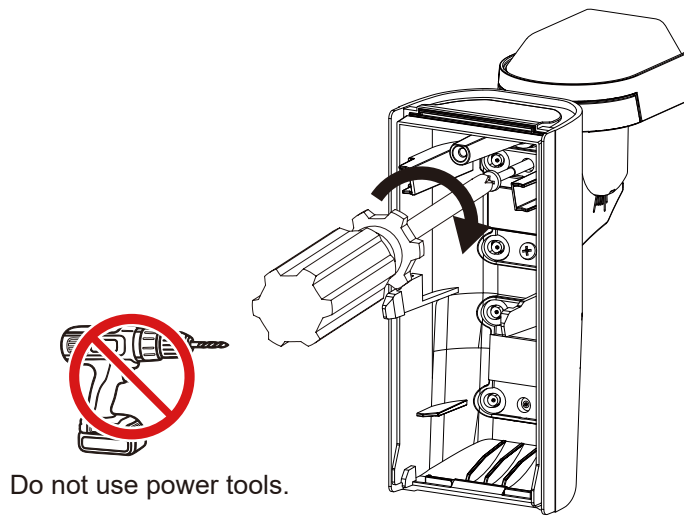
For example

When the ground is inclined at 4°.



Use the vertical angle adjustment only to align the detection area parallel to the ground slope.

- 7 Fully tighten the angle adjustment screw to lock the angle.



➡ Go to Page
19

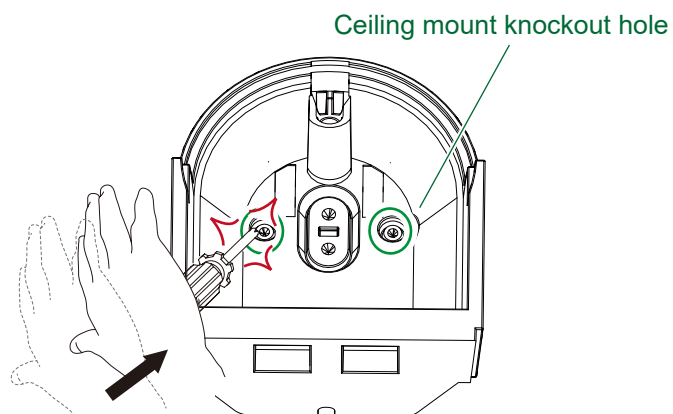
2-3. Optional Bracket (TXI-BKT) Installation for Ceiling Mount

- 1 Open the optional bracket (TXI-BKT).

See page 11 for instructions on opening the optional bracket (TXI-BKT).

- 2 Break the required knockouts.

< TXI-BKT cover >



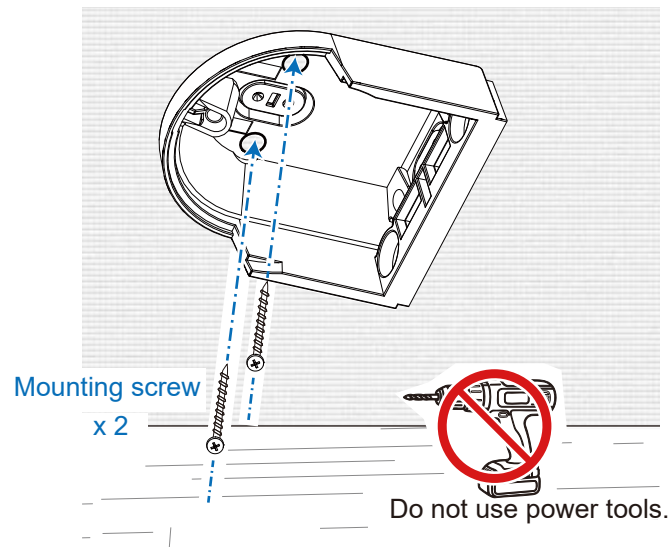
NOTE

For wall mount installation with the optional bracket (TXI-BKT), see page 11.

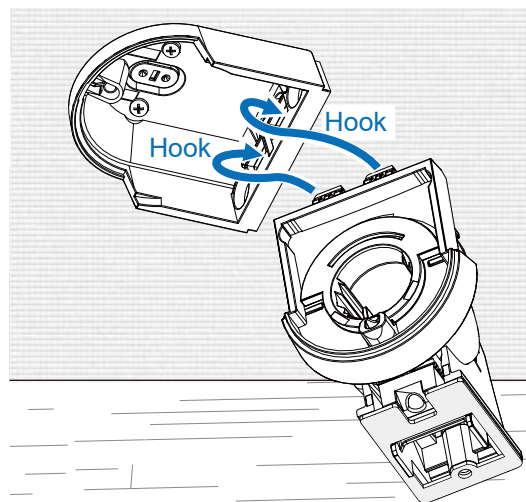
2-3. Optional Bracket (TXI-BKT) Installation for Ceiling Mount

3 Mount the optional bracket (TXI-BKT).

- ① Fix the TXI-BKT cover with the mounting screws.



- ② Close the optional bracket (TXI-BKT).



- 4 Tighten the screw to close the optional bracket (TXI-BKT).
- 5 Join the base to the optional bracket (TXI-BKT).
- 6 Adjust the sensor angle as needed.
- 7 Fully tighten the angle adjustment screw to lock the angle.

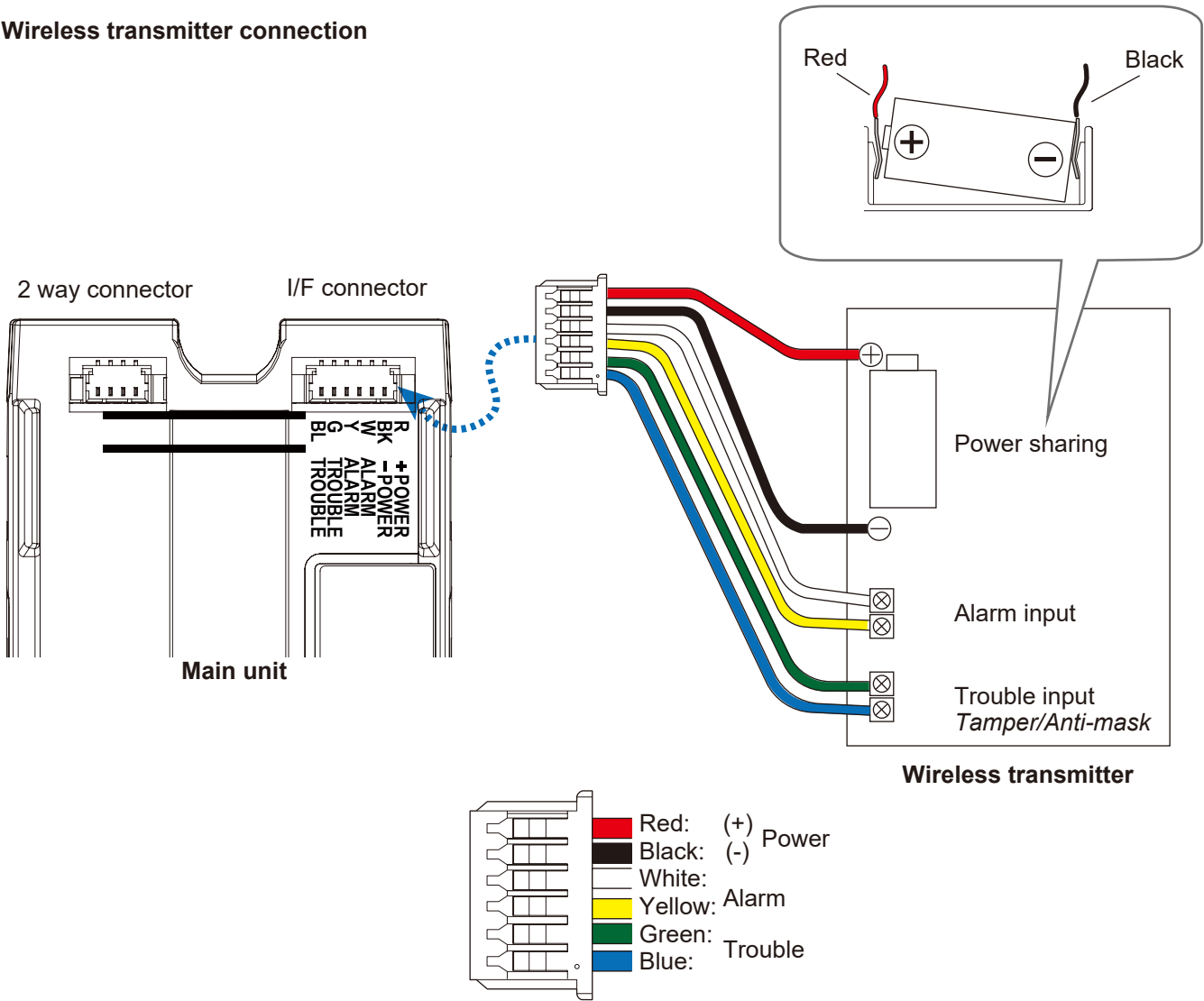
See page 12–16.

2-4. Wireless Transmitter

 Caution

- **Risk of Explosion**
Risk of explosion if the battery is replaced by an incorrect type.
- **Disposal**
Dispose of used batteries according to the manufacturer's instructions and local environmental regulations.
- **Handling**
Do not disassemble, crush, puncture, or expose the battery to fire or high temperatures.

Wireless transmitter connection



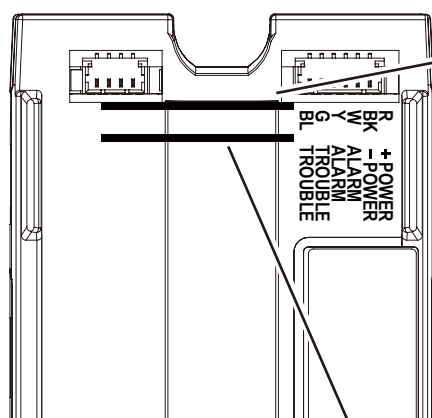
Battery life

TXI-R			
Interval (sec)	120	5	
CR123A	6.5	3.7	
CR2	3.5	1.9	
1/2AA	4.9	2.7	

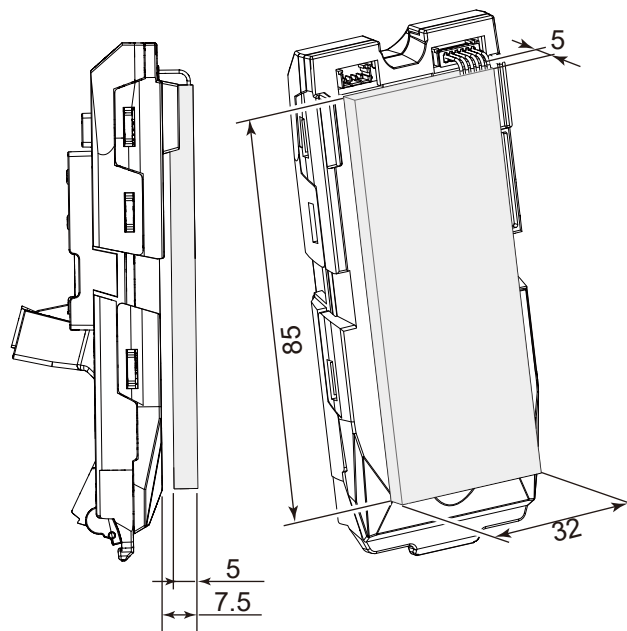
TXI-RDAM			
Interval (sec)	120	5	
CR123A	4.2	1	
CR2	2.2	0.4	
1/2AA	3.2	0.7	

Unit: year

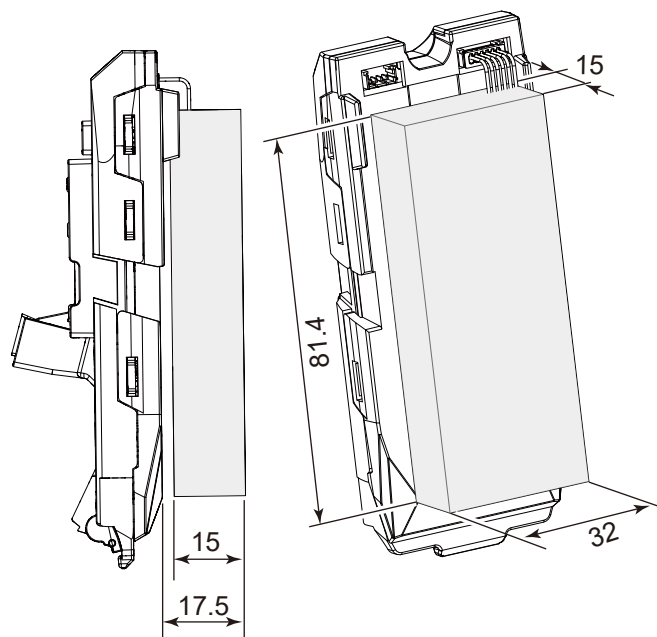
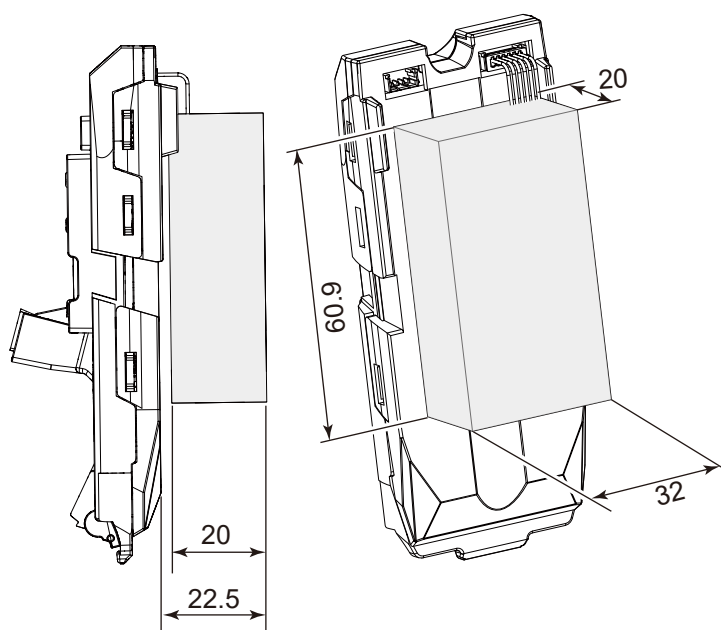
Wireless transmitter and battery



Position the transmitter along upper line



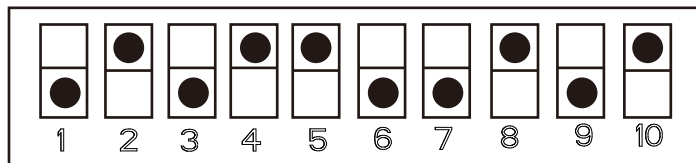
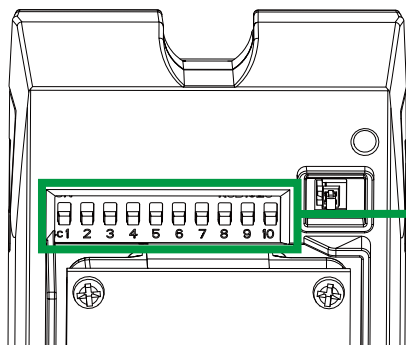
Position the transmitter along lower line



Unit:mm

3 Settings

3-1. Dip Switch Settings



NOTE The above illustration shows the **default** position.

R/RDAM										RDAM ONLY			
1	2 / 3		4	5		6		7 / 8		9 / 10			
LED ON/OFF	PIR SENS		PET TOLERANCE	TAMPER SENS		BATTERY SAVING TIMER		AM SENS		MW SENS			
ON	SH		H	M	5 sec	H	M	H	M	H	M		
OFF	M		M	L	120 sec	L	OFF	L	OFF	L	OFF		

DIP switch 1 :LED

ON
OFF (Factory default)

DIP switch 6 :Battery saving timer

5 sec
120 sec (Factory default)

DIP switch 2,3 :PIR sensitivity

Super High
High
Middle (Factory default)
Low

DIP switch 7, 8 :Anti-mask sensitivity *

High
Middle (Factory default)
Low
OFF

DIP switch 4 :Pet tolerance

High (Factory default)
Middle

DIP switch 9, 10 :Microwave sensitivity *

High
Middle (Factory default)
Low
OFF

NOTE

See page 28 for the detection area.

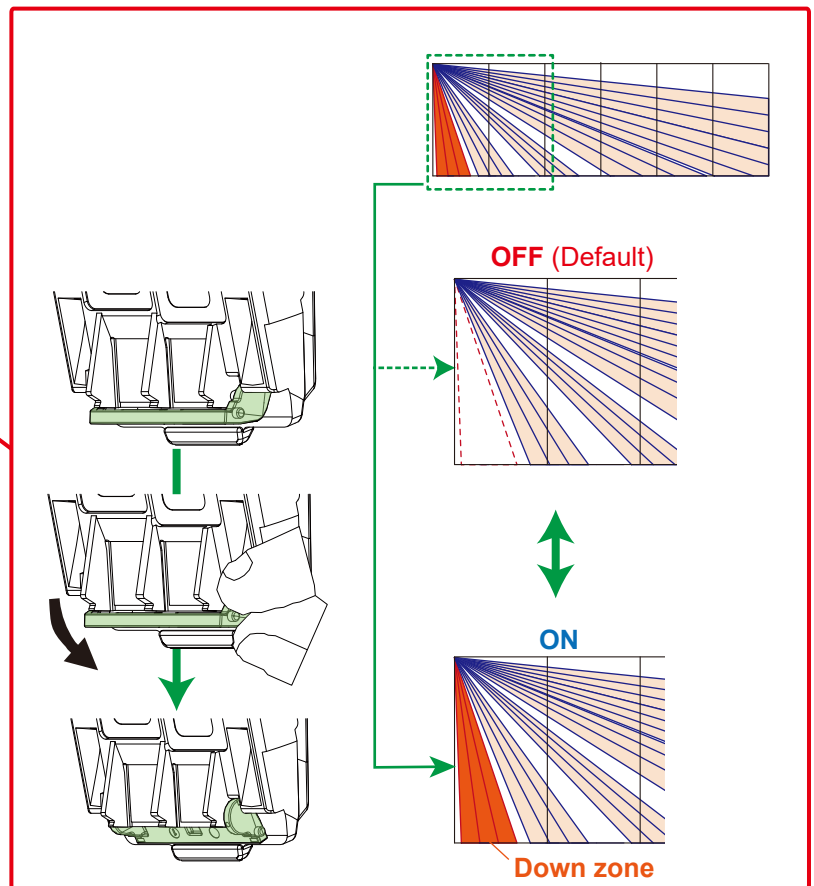
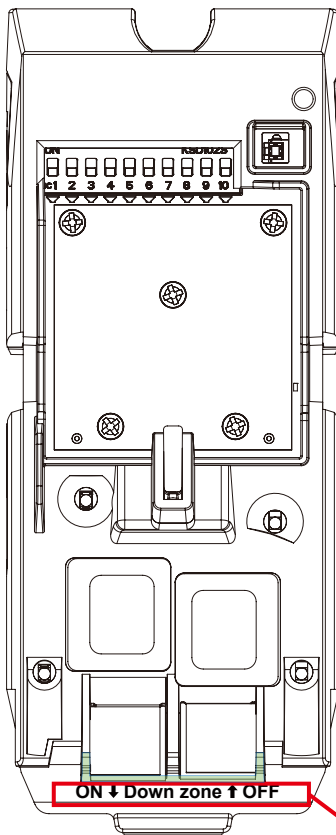
DIP switch 5 :Tamper sensitivity

High (Factory default)
Middle

* RDAM only

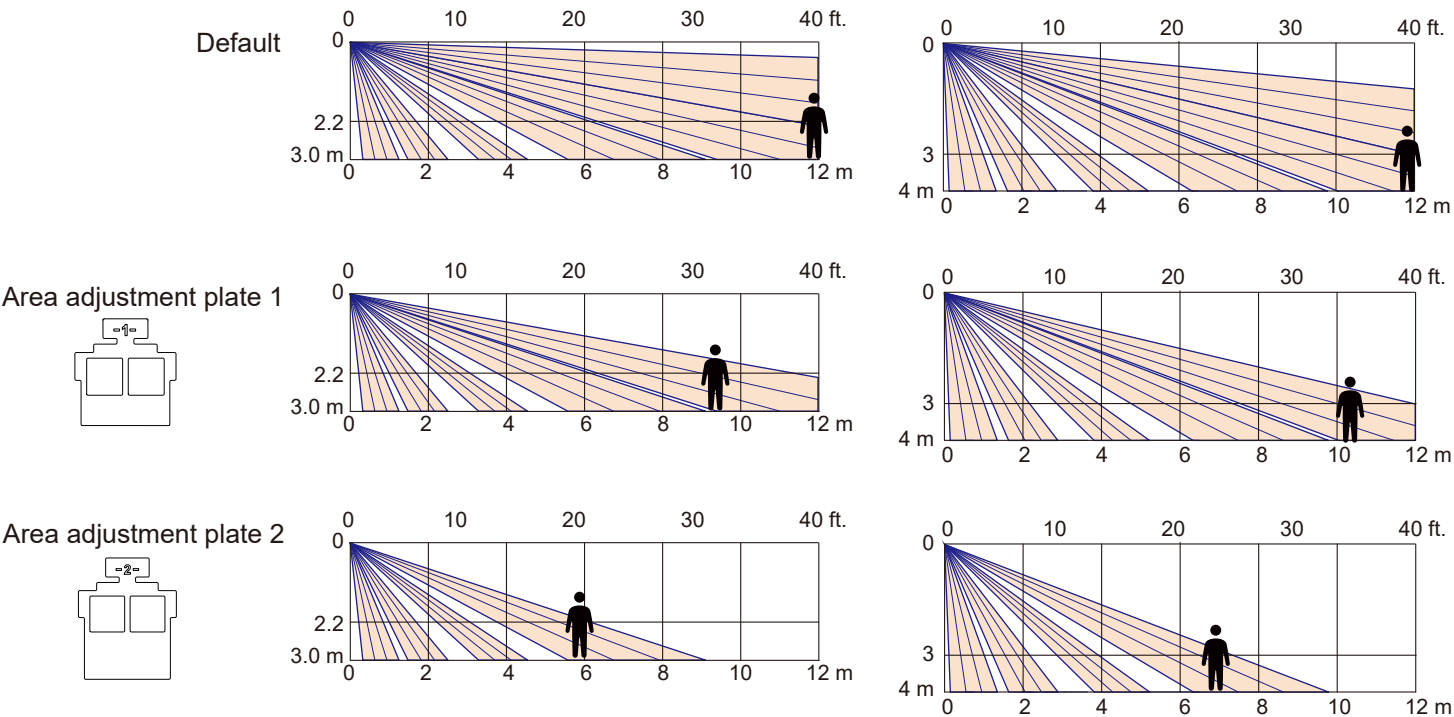
3-2. Area Adjustment

3-2-1. Down zone ON/OFF



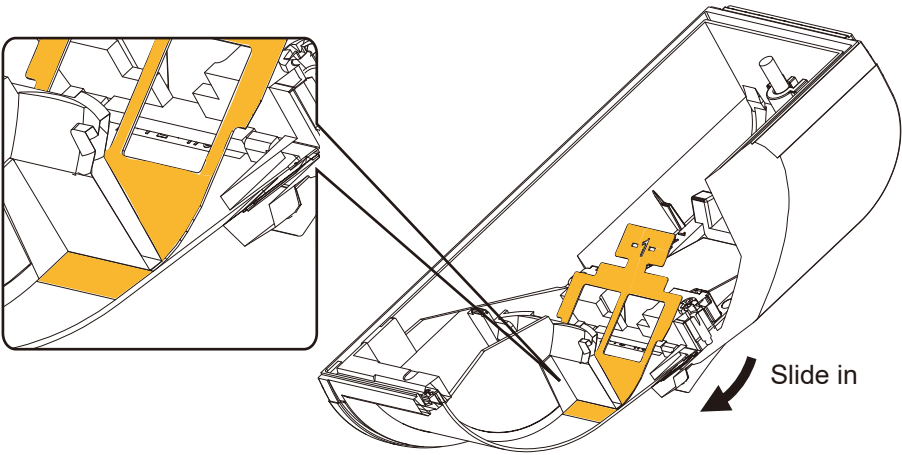
3-2-2. Detection Distance Adjustment

To limit detection distance, use the appropriate area adjustment plate.

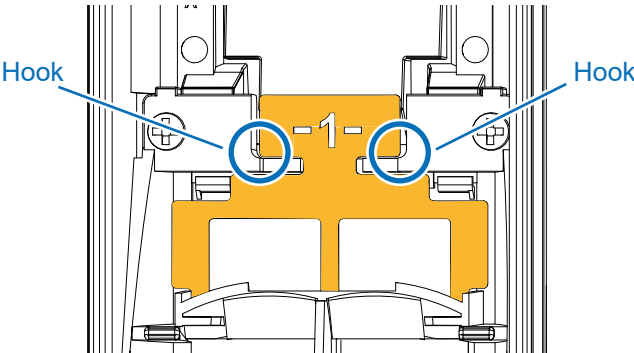


* Illustrative detection range only.

1



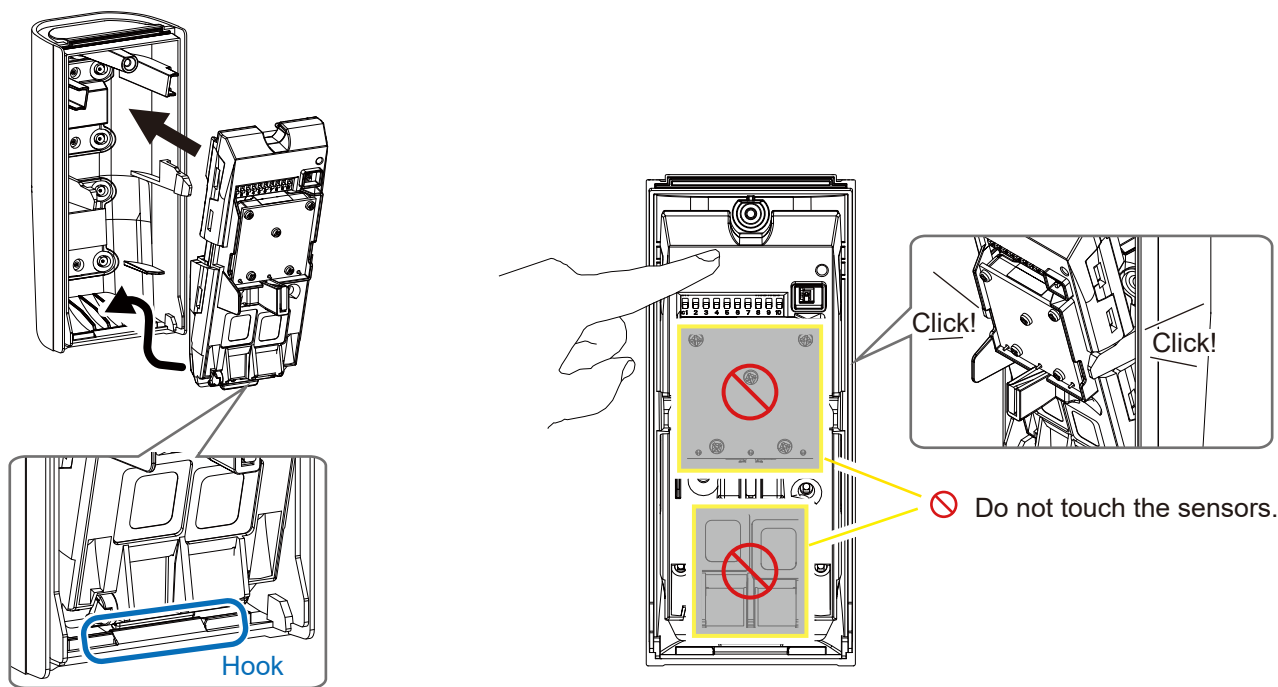
2



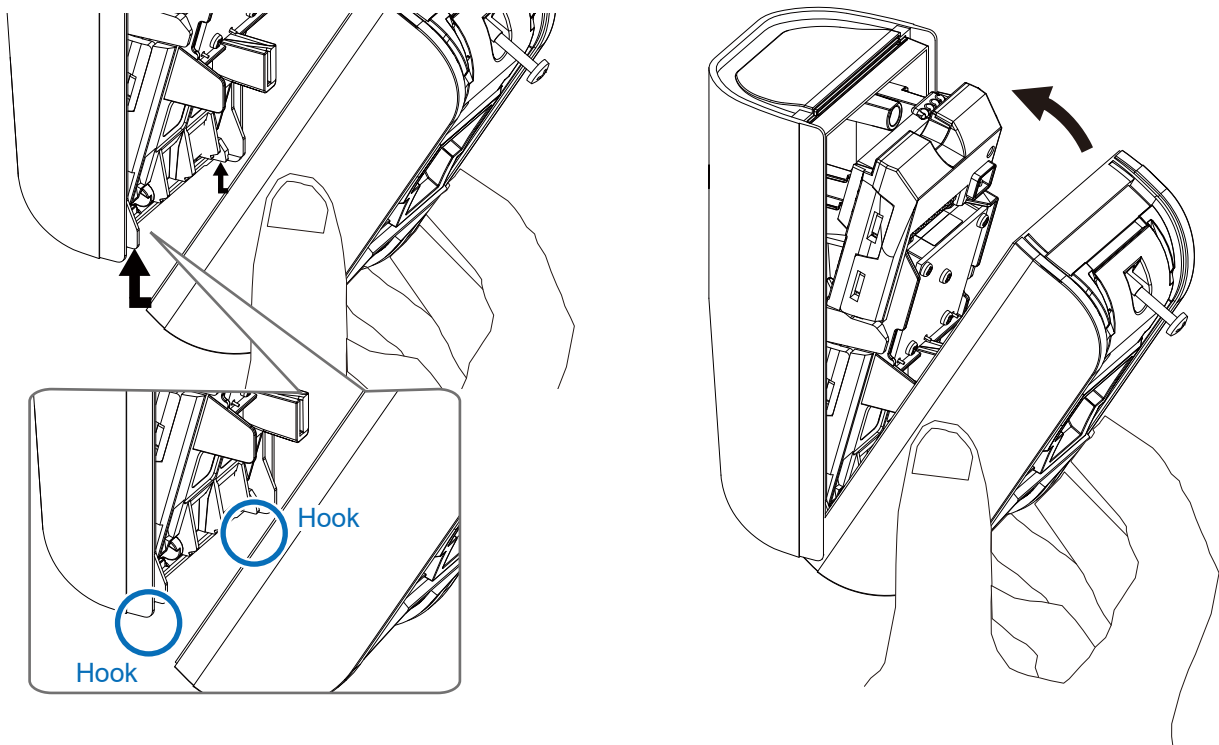
4 Inspection

4-1. Assembly

- 1 Attach the main unit to the base.

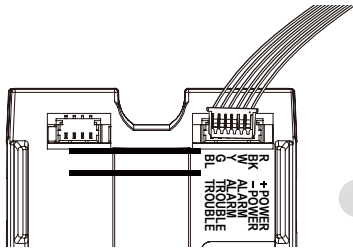


- 2 Close the cover.



4-2. Walk Test

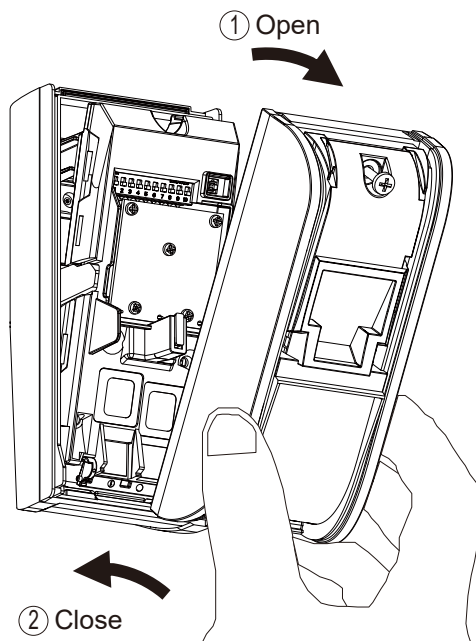
- 1 Power on.



NOTE

See page19.

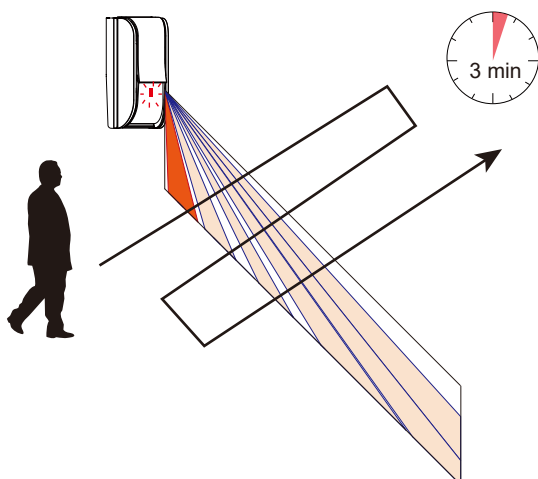
- 2 Open and close the cover.



NOTE

After the unit is powered on, opening and closing the cover will activate the tamper function and initiate Walk Test mode.

- 3 Walk within the detection area to check detection performance using the LED indicator.

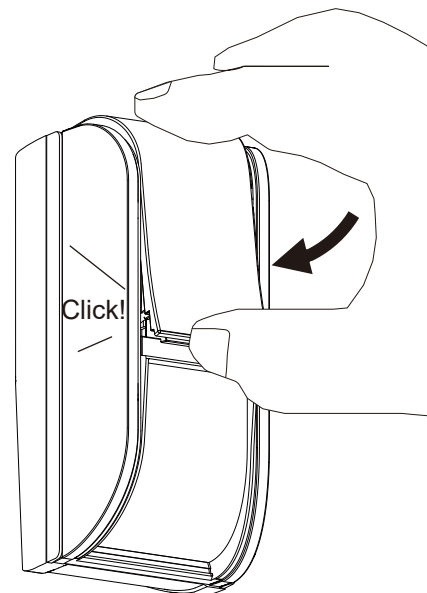


- 4 Tighten the fixing screw.



Do not use power tools.

- 5 Attach the lock cover.



NOTE

To perform the walk test again, open and close the cover. Conduct a walk test at least once a year.

- Specifications

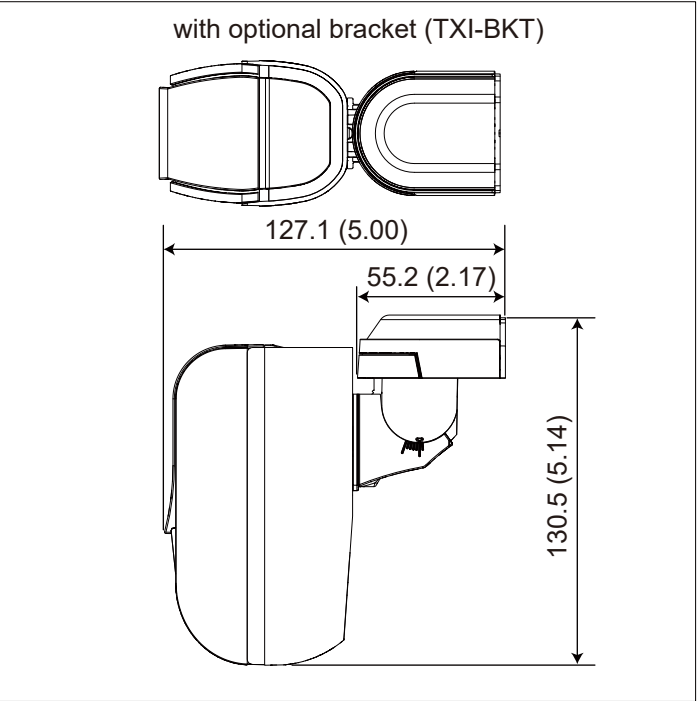
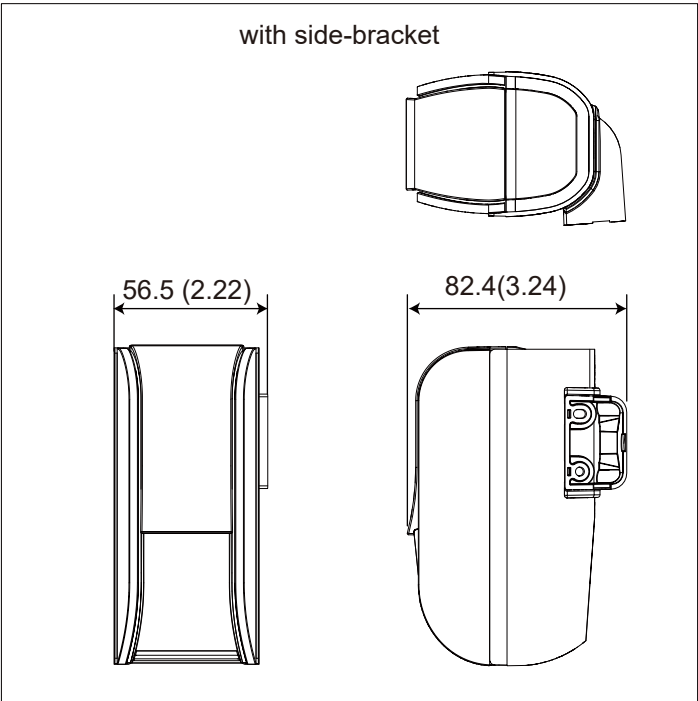
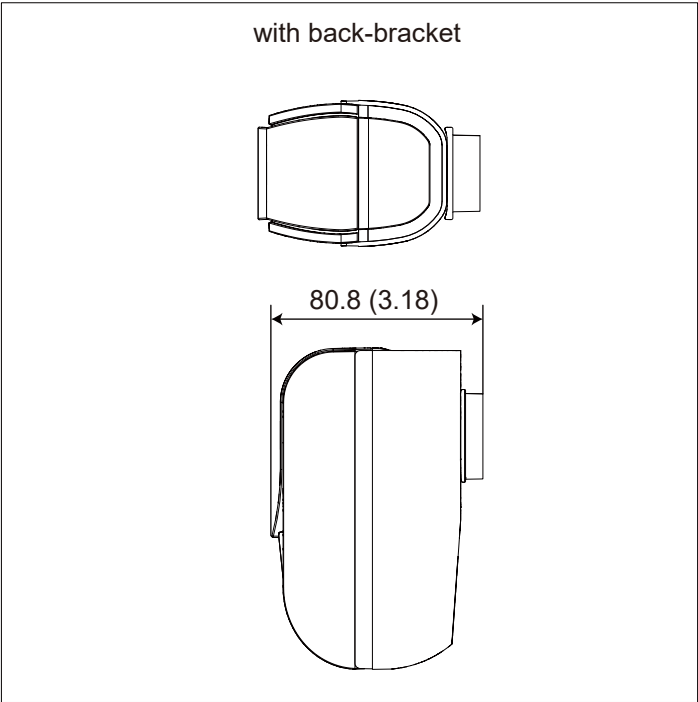
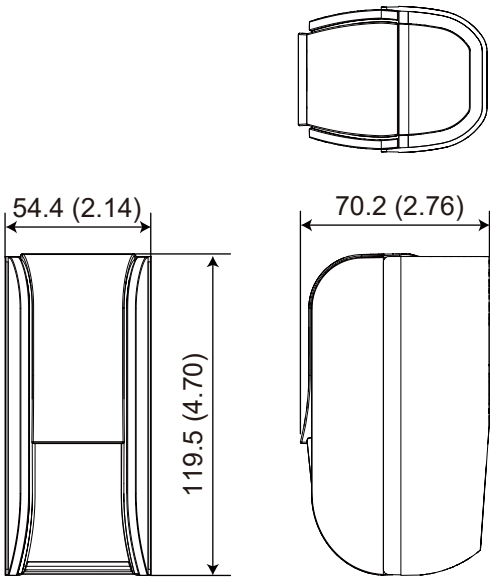
Models	TXI-R	TXI-RDAM-X5/-X8/-X9
Installation		
Detection method	Passive infrared	Passive infrared and Microwave
Coverage	12 m x 2.4 m (40' x 8')	
Mounting height	2.2 to 4.0 m (7'2" to 13'2")	
Warm-up period	60.0 ± 0.5 s	
Alarm period	2.0 ± 0.5 s	
LED indicator	Switchable ON/OFF Red LED Warm-up (Blinks for 60 s) Alarm (Lights for 2 s) Walk test mode end (Fast blinks for 5 s)	Switchable ON/OFF Red LED Warm-up (Blinks for 60 s) Alarm (Lights for 2 s) Masking detection (Blinks 3 times & repeats) Walk test mode end (Fast blinks for 5 s)
Electrical		
Power input	3.0 VDC	
Current draw	14 µA (Stand-by) 5 mA (max.) at 3.0 VDC	19 µA (Stand-by) 6 mA (max.) at 3.0 VDC
Alarm output	Solidstate switch, 10 VDC 0.01 A max.	
Trouble output(with tamper)	Solidstate switch, 10 VDC 0.01 A max. Open when either the cover, main unit is removed	Solidstate switch, 10 VDC 0.01 A max. Open when either the cover, main unit is removed, and masking detection
Environmental		
Operation temperature	-30°C to +60°C (-22°F to +140°F)	-20°C to +45°C (-4°F to +113°F)
Temperature compensation	Digital (SMDA)	
Environmental humidity	95% max.	
RF interference	No alarm 10 V/m	
IP rating	IP55	
Mechanical		
Dimension	H: 119.5 x W: 54.4 x D: 70.2 mm (H: 4.70 x W: 2.14 x D: 2.76 inch)	
Weight	Approx. 135 g (4.8 oz)	Approx. 155 g (5.5 oz)
Mounting	Wall (with included brackets [side/back]) Wall, Ceiling (with optional bracket:TXI-BKT)	
Accessories		
Mounting screw x 2, Joint screw x 2, Side-bracket x 1, Back-bracket x 1 Area adjustment plate 1 x 1, Area adjustment plate 2 x 1, Connector x 1		

- Specifications and designs are subject to change without prior notice.
- 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.

- Events and Responses

Events	Triggered by	Output and Remarks
Anti-masking detection	Objects close to the lens surface over 20 sec.	Trouble signals.
Walk test	Conduct a walk test at least once a year.	Keep at least 1 meter from the detector and clear of any objects.
Tamper function	Detection by the acceleration sensor, or opening the cover.	When the acceleration sensor detects movement, the trouble output is held. To reset it, open and close the cover, or turn the power off and on.

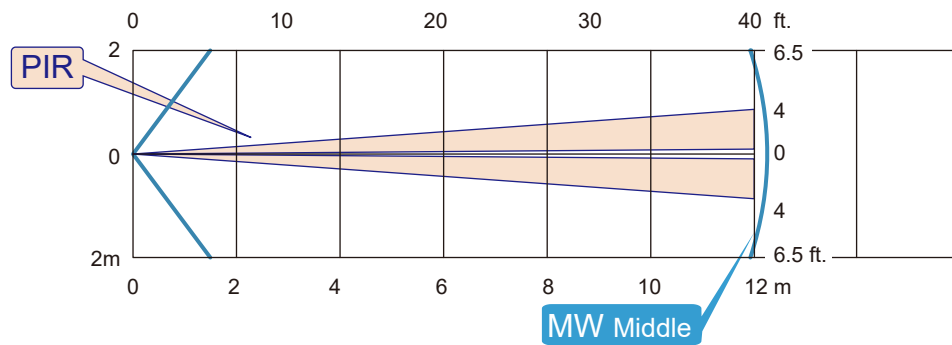
- Dimensions



Unit: mm (inch)

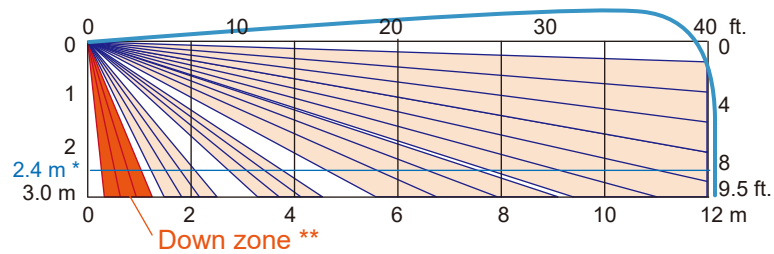
- Detection Area

- Top View -

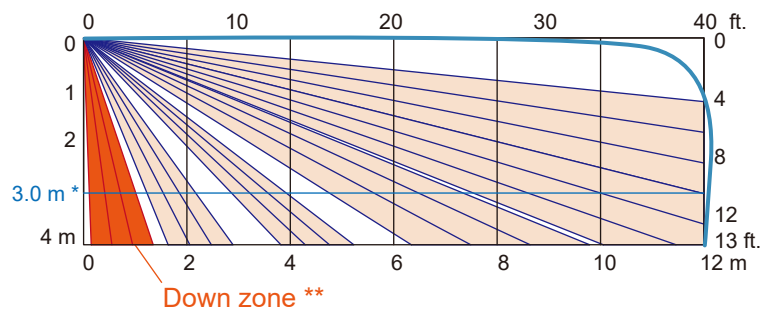


- Side View -

< Mounting height: 2.2 m to less than 3.0 m >



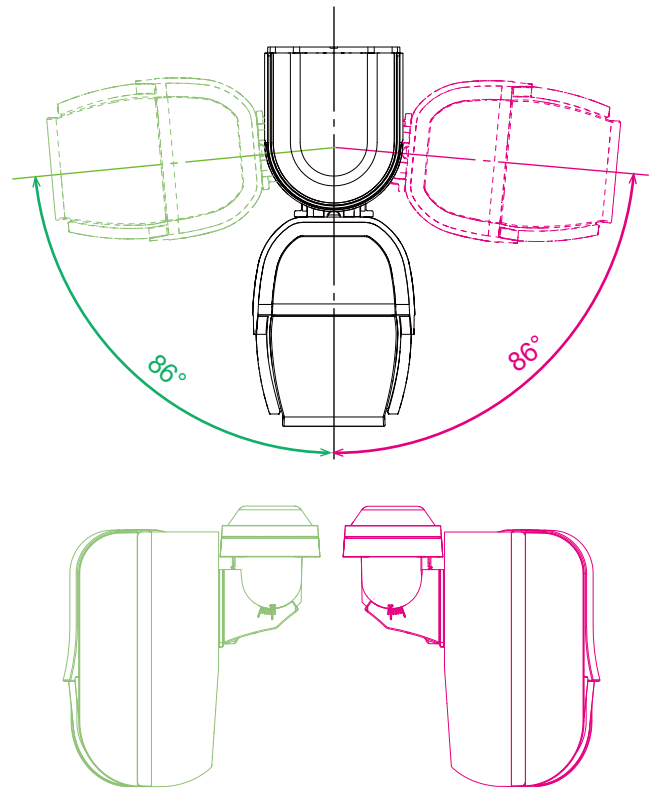
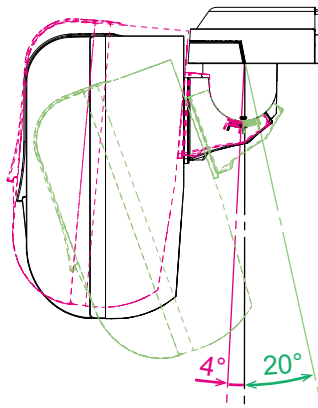
< Mounting height: 3.0 m to 4.0 m >



NOTE

- The above detection ranges are for guidance only.
- The range and sensitivity settings for each detector must be adjusted according to the installation conditions.
- The * 2.4 or 3.0 dotted line indicates the recommended mounting height.
- ** Down zone can be switched on by Down zone ON/OFF (See 3-2-1).

- Angle Adjustment with Optional Bracket (TXI-BKT)



NOTE

If the cover does not reach the ceiling, it can be swung up to +4°.

- Compliance

RE Directive 2014/53/EU

- Hereby, OPTEX declares that the radio equipment type TXI-RDAM-X5, TXI-RDAM-X8 and TXI-RDAM-X9 are in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: **www.optex.net**
- Microwave emission Frequency and Power

TXI-RDAM-X5:	10.525 GHz	15.78 mW e.i.r.p
TXI-RDAM-X8:	10.587 GHz	8.93 mW e.i.r.p
TXI-RDAM-X9:	9.425 GHz	14.50 mW e.i.r.p
- The following list indicates the areas of intended use of the equipment and any known restrictions.
For countries not included in this list, please consult the responsible Spectrum Management Agency.

10.525 GHz:	Belgium, Denmark, Finland, Germany, Greece, Italy, Luxembourg, The Netherlands, Spain, Sweden, Iceland, Norway, Switzerland
10.587 GHz:	Belgium, France, Germany, Ireland, Luxembourg, The Netherlands, United Kingdom, Italy, Spain, Greece
9.425 GHz:	Austria, Czechia, Estonia, Germany, Slovakia, Turkey, Russia
- TXI-RDAM-X5, TXI-RDAM-X8 and TXI-RDAM-X9 also comply with EU radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

UK Radio Equipment Regulations 2017

- TXI-DAM-X8 also complies with UK radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.
- Hereby, OPTEX declares that the radio equipment type TXI-RDAM-X8 is in compliance with Radio Equipment Regulations 2017. The full text of the UK declaration of conformity is available at the following internet address: **www.optex.net**



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