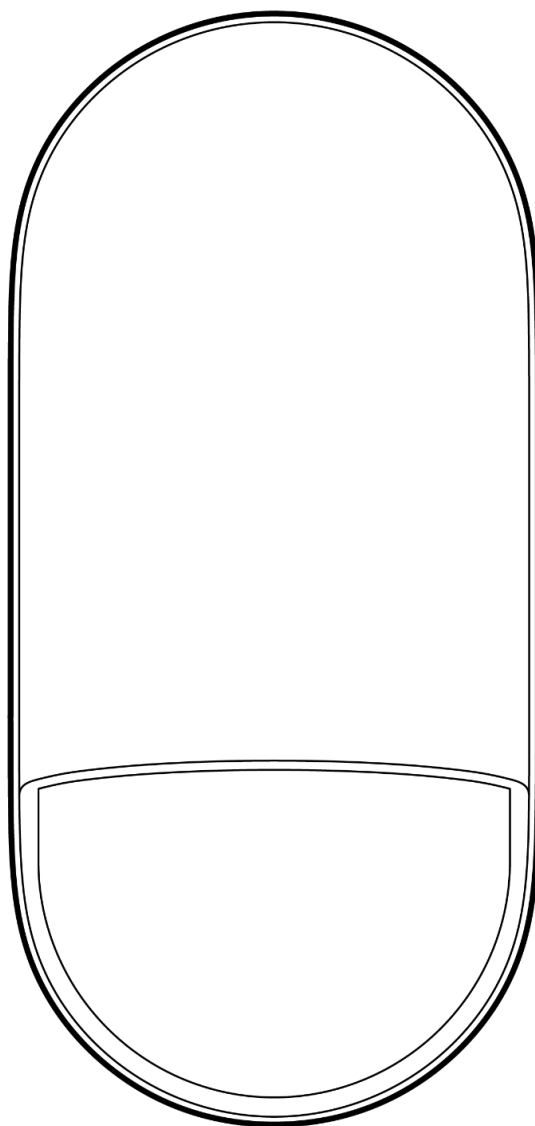


QM11-R BSP Wall-Mounted Motion Sensor



Document Details

Version

V1.0 20260706

(V1.0 published 20260706)

Firmware

Firmware version can be verified on Verkada

Command command.verkada.com.

Product Models

This install guide pertains to models QM11-R-HW.

© Copyright 2025 Verkada Inc. All rights reserved.

Verkada and the Verkada logo are registered trademarks or service marks of Verkada Inc. ("Verkada"). All other trademarks are the property of their respective owners.

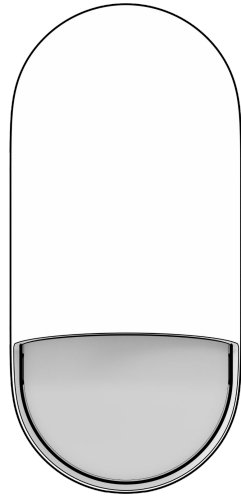
Verkada may make changes to this document at any time without notice. The information presented herein may be inaccurate or outdated, and Verkada is under no obligation to maintain it. ALL INFORMATION IS PROVIDED "AS-IS" AND WITHOUT ANY WARRANTIES, IMPLIED, EXPRESS, OR OTHERWISE. VERKADA DISCLAIMS LIABILITY FOR ALL DAMAGES, INCLUDING WITHOUT LIMITATION ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES, ARISING OUT OF USE OF THIS DOCUMENT.

Any intellectual property rights relating to Verkada products are and shall remain Verkada's exclusive property. Use of any Verkada product is subject to Verkada's end user agreement or other executed agreement with Verkada. No license, either expressed or implied, to use or distribute any Verkada product is granted under this document.

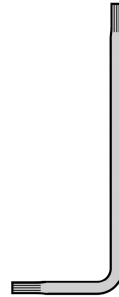
This document may not be sold, resold, licensed or sublicensed and may not be transferred without Verkada's prior written consent. No part of this document may be reproduced in whole or in part without the express written consent of Verkada.



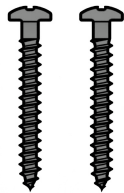
What's in the Box



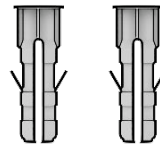
QM11-R



**T10 Security
Torx L-Key**



M3.5 Wood Screws
(2 pcs)



Wall Anchors
(2 pcs)

What you'll need

- A BSP-capable Alarm Panel or Expander (or a QX61 Adapter used with other BP or BE devices)
- A smartphone or laptop
- A working internet connection
- 1/8 inch (3.2mm) drill bit for pilot holes
- #2 Phillips head screwdriver/driver bit
- A flathead screwdriver/driver bit

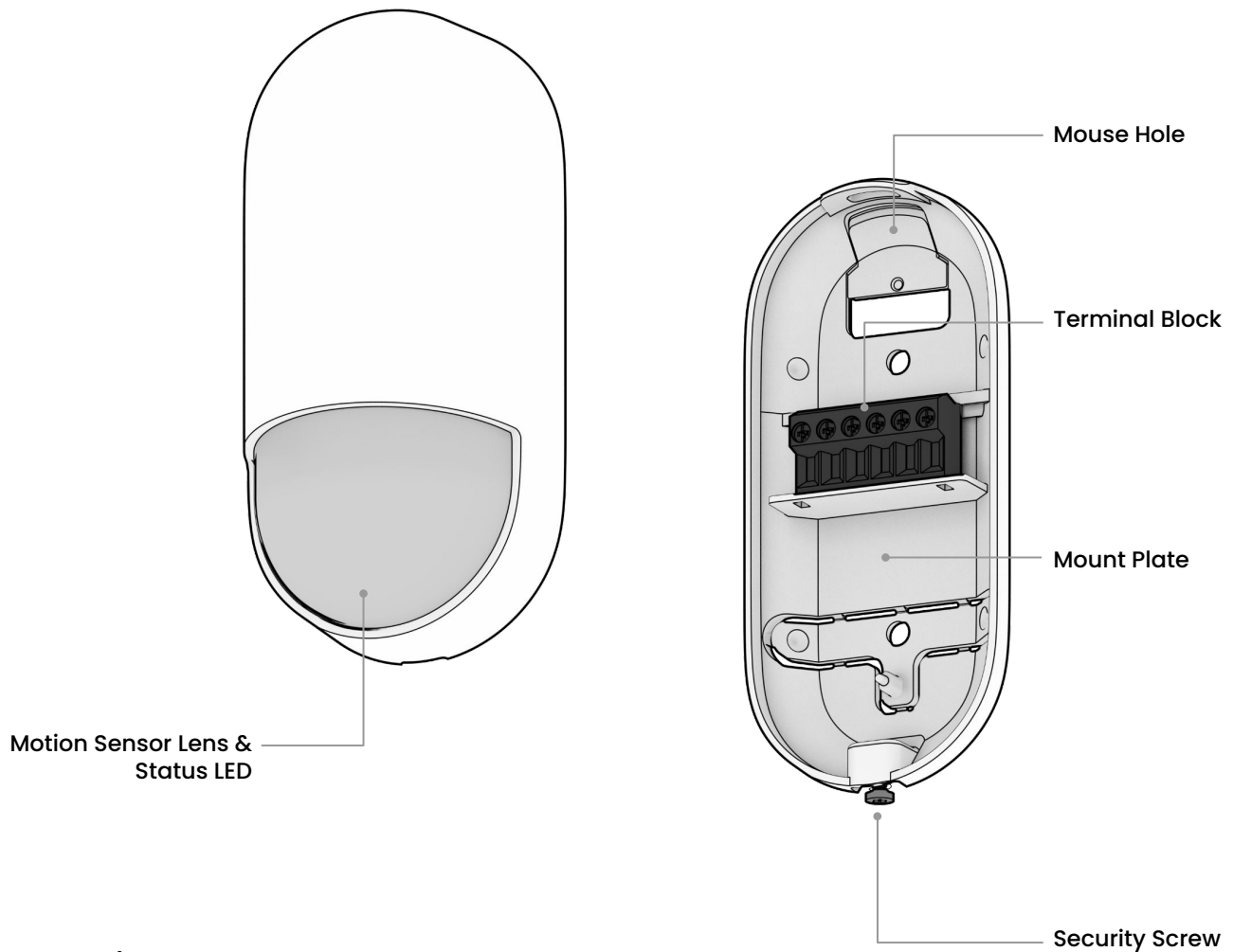
Connect

For easy registration and setup, scan the QR code on the product.

If you prefer to manually register your product, please proceed to:

verkada.com/start

Overview



LED Behaviors

Install Mode

To enable Install Mode, power cycle the device by disconnecting power or enable on Command..

Note: After a power cycle, the device requires 60 seconds to warm up before the LEDs will remain active for 5 minutes.

- **Solid Green**
Sensor detected dual motion (PIR and Microwave).
- **Solid Yellow**
Sensor detected thermal motion (PIR).
- ☀ **Blinking Green**
Sensor is searching for a hub to connect to.
- ☀ **Blinking Red**
Sensor cannot find a hub to connect to.

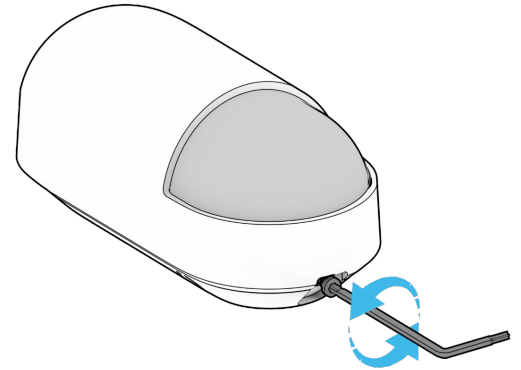
Technical Specifications

Power	0.3 W Max
Input Voltage	12 – 36 VDC input
IOs	2x BSP Ports
Microwave Frequency	X-Band Radar Module operating frequency range (10.52 – 10.53 GHz)
Detection Method	Dual Technology with PIR Sensor and X-Band Microwave Radar
Detection Range	Up to 50ft (15m) with 85 degree FOV.
Movement Detection Speed	1.0 – 8.2 ft/s (0.3 – 2.5m/s)
Anti-mask Detection Range	Up to 6 inches (15cm)
Tamper Detection	Yes, breakaway tab
Dimensions	4.72in (L) x 2.25in (W) x 2.03in (H) / 120mm (L) x 57mm (W) x 51.5mm (H)
Weight	5.36 Oz / 152g
Operating Temp. & Humidity	0°C–50°C / 32°F–122°, 0–90% RH non-condensing

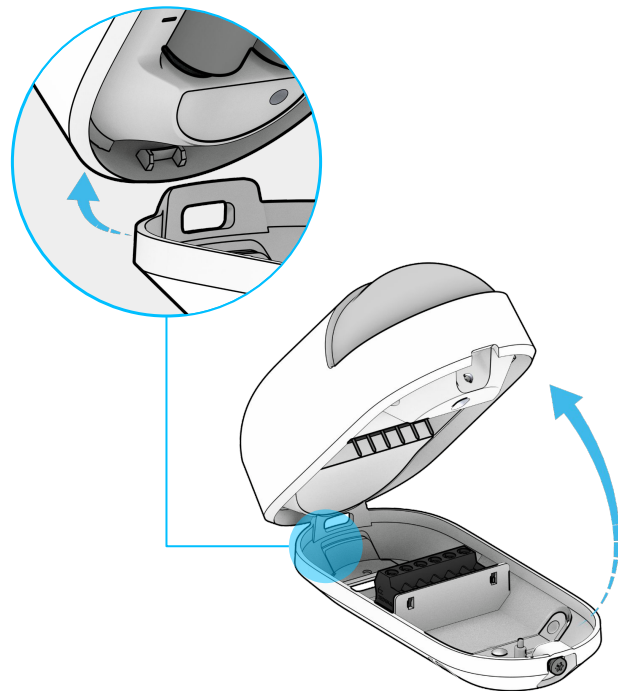
Installation

Preparation

Use the provided T10 Security Torx Screwdriver to unscrew the security screw at the bottom of the device.



Swing the bottom of the device away from the mount plate and disengage the hook at the top of the mount plate.

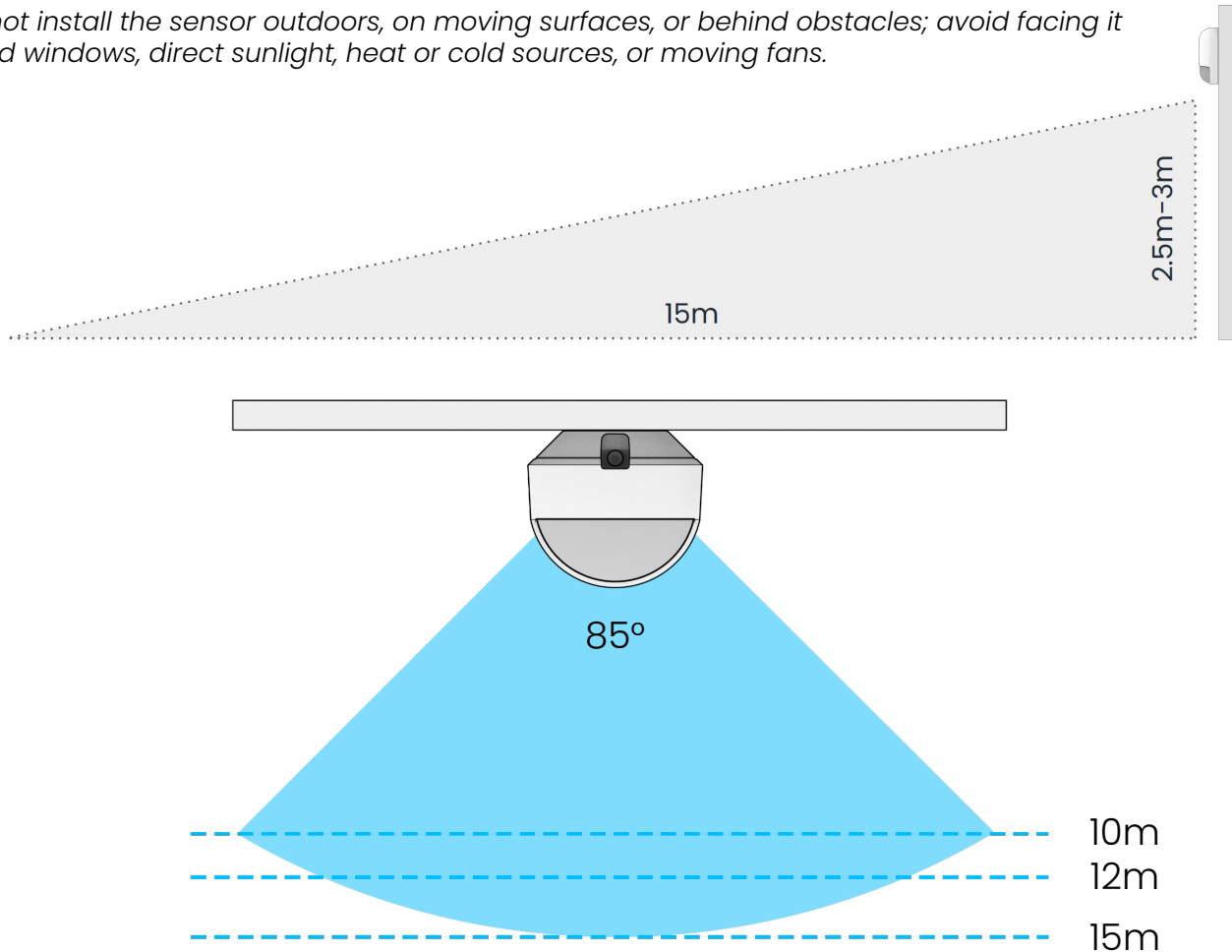


Installation

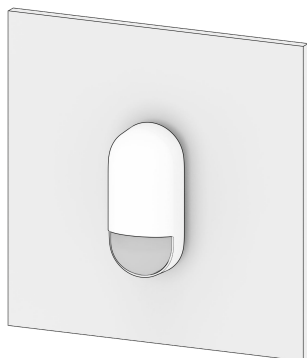
Mounting Location

The recommended position for the motion sensor should be 8.2-9.8 feet (2.5-3 meters) from the floor in the corner of a room. The sensor will detect motion up to a range of 50 feet (15 meters) at a 85 degree horizontal field of view.

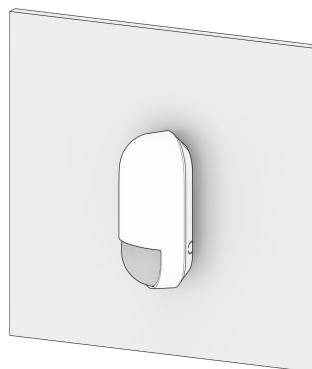
** Do not install the sensor outdoors, on moving surfaces, or behind obstacles; avoid facing it toward windows, direct sunlight, heat or cold sources, or moving fans.*



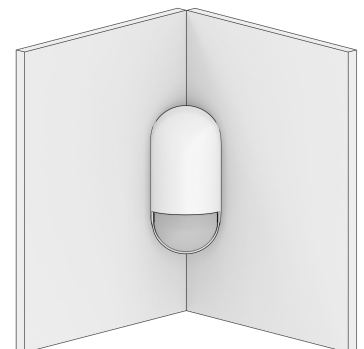
Mounting Options



Flush



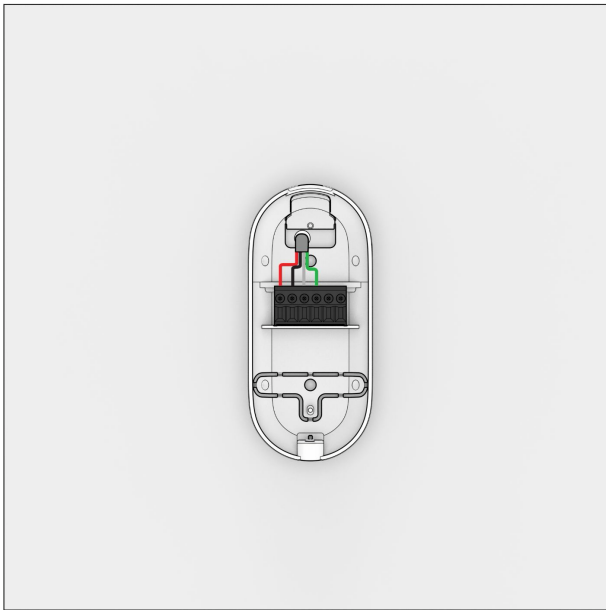
Angled



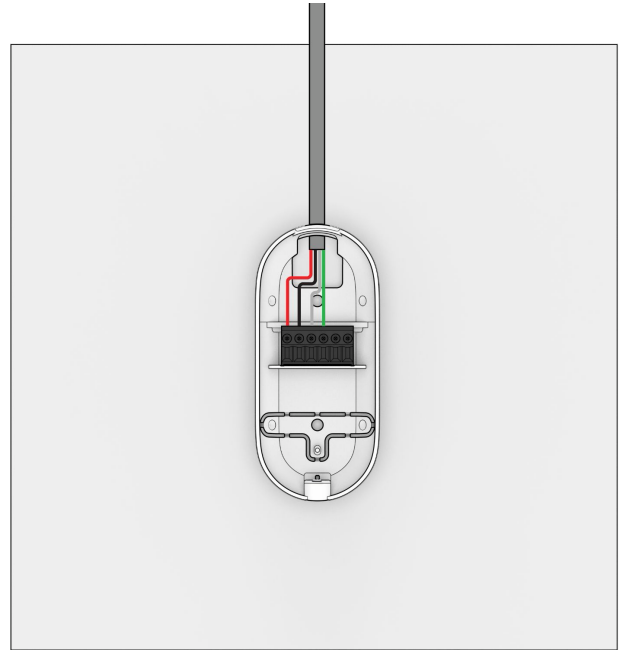
Corner

Wiring Options

Before mounting the device to the wall, determine which of the two wiring options to the terminal block is required for your installation. This will dictate if the mousehole door needs to be removed.



Through the wall



Along the mounting surface
(Remove the Mouse Hole cover if wiring along the mounting surface.)

Installation

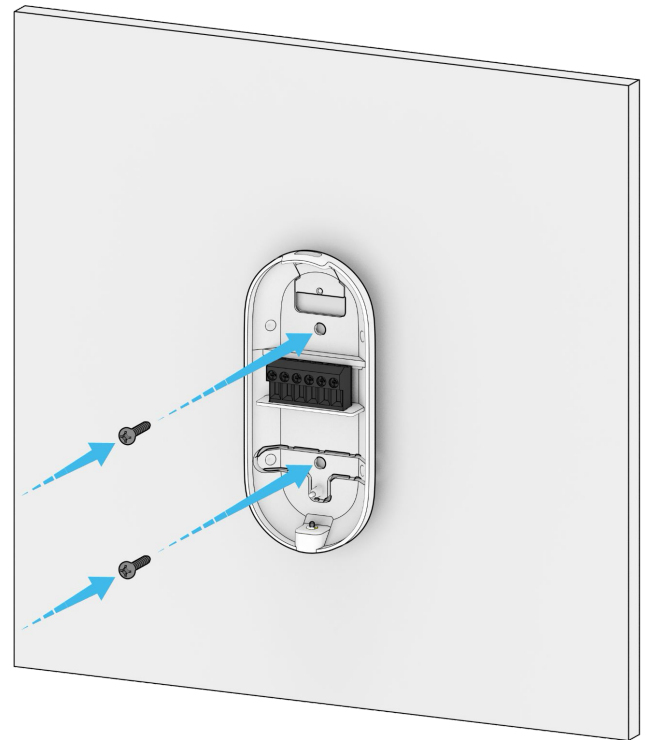
Mounting Option 1: Flush

To install the device flush against the wall, use the mount plate to mark pilot holes.

Drill two pilot holes. Wall anchors may be used if needed.

Secure the mount plate to a flat surface using the provided screws.

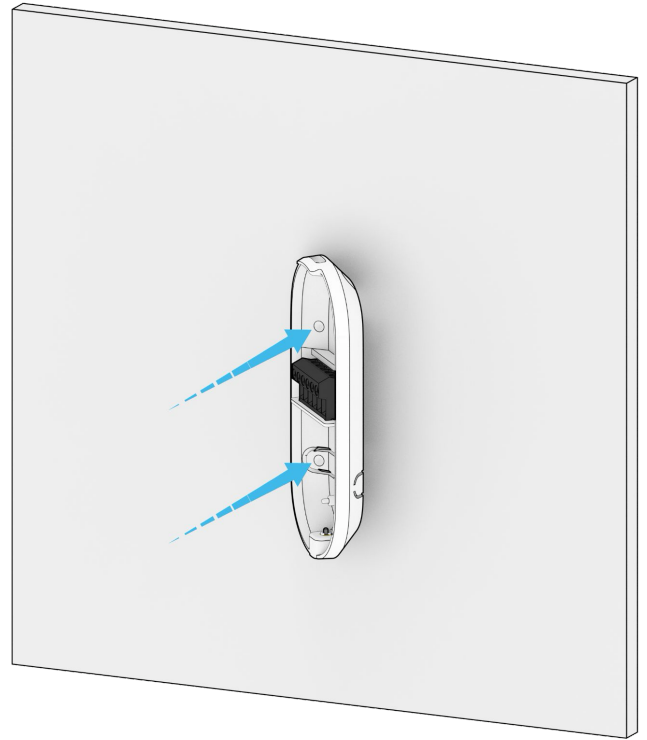
Note: If routing the cable through the wall, ensure the opening in the mount plate is aligned with the cable location.



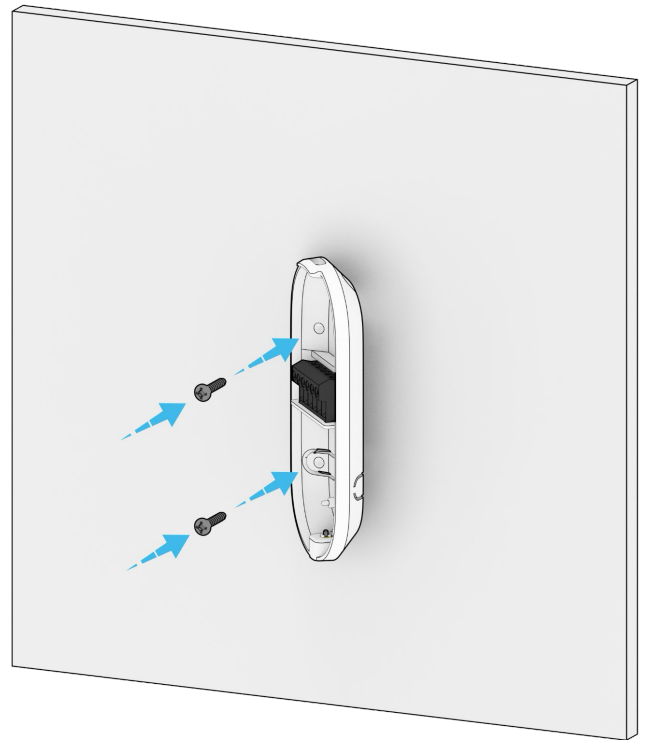
Installation

Mounting Option 2: Angled

To install the device on an angle against the wall, first drill two pilot holes into the divots of the mount plate.



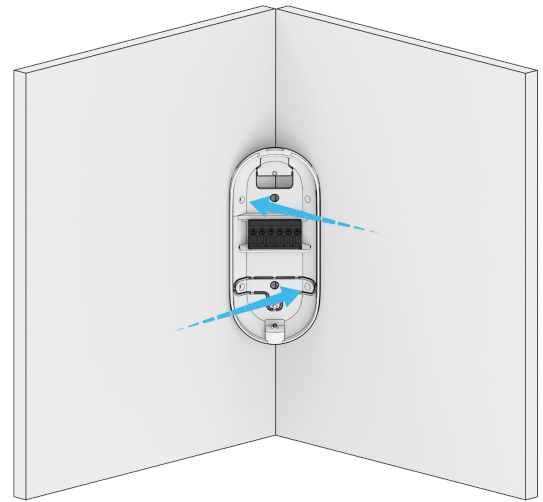
Secure the mount plate using two screws. Wall anchors may be used if needed.



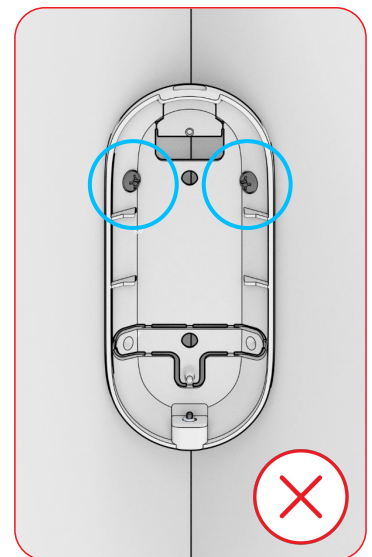
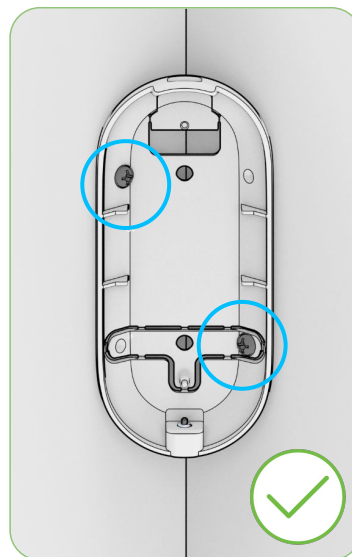
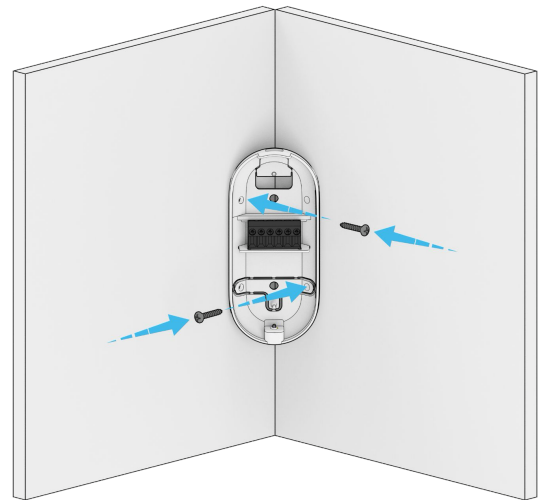
Installation

Mounting Option 3: Corner

To install the device on an angle against the wall, first drill two pilot holes into the divots of the mount plate.



Secure the mount plate using two screws. Wall anchors may be used if needed.



Installation

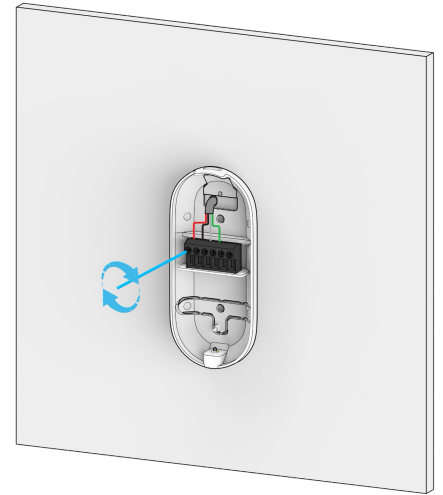
Wiring Diagram

Once the cable is correctly routed, terminate the conductors into the terminal blocks.

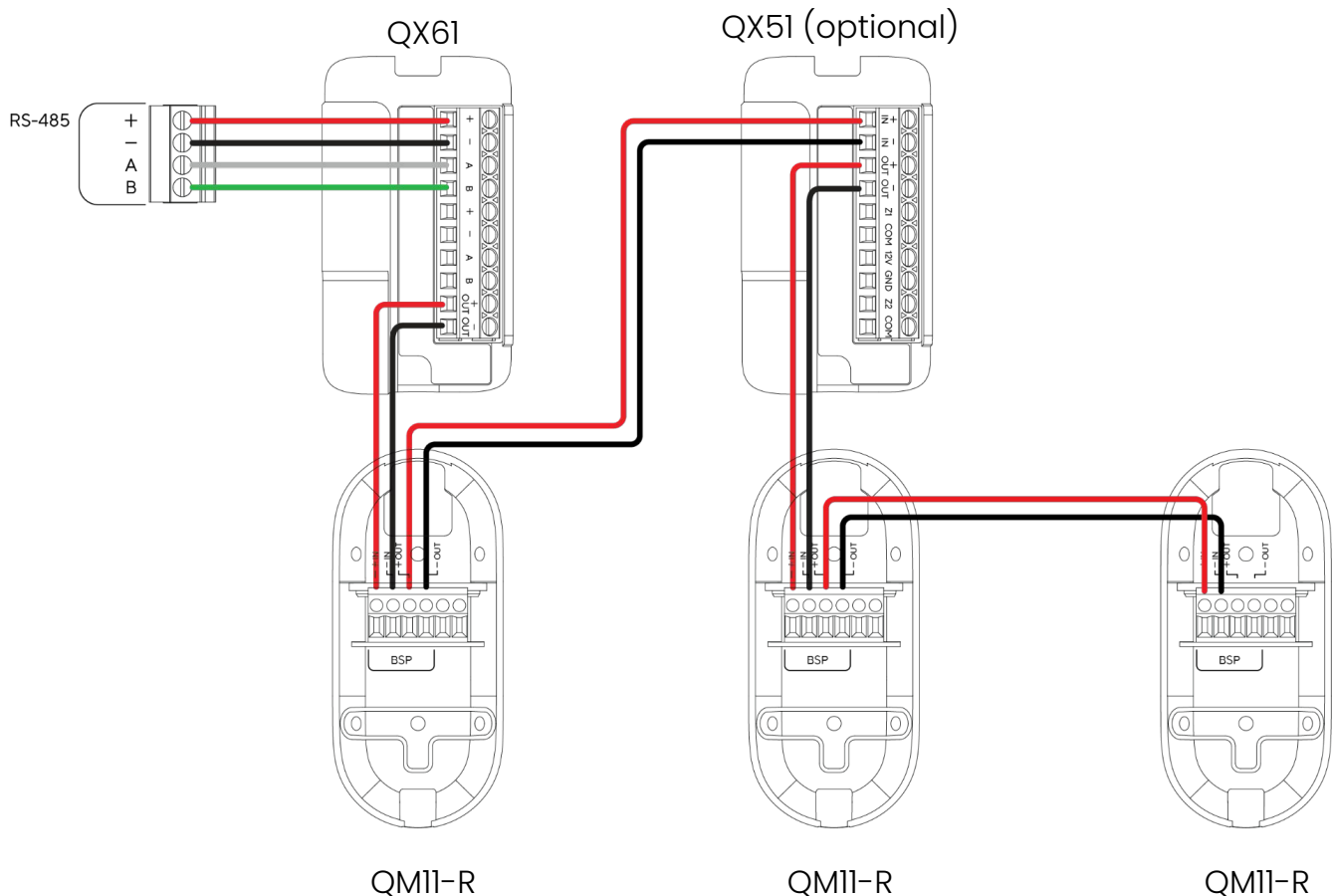
BSP is Verkada's proprietary 2-wire communication protocol, supporting up to 100 daisy-chained BSP devices on a single wire run. Device limit depends on wire gauge, voltage, and device types; use Verkada's BSP calculator for specific system limits.

The QM11-R supports the Verkada BSP wiring architecture. Two common wiring examples are provided below.

The first scenario shows a mix of QM11-R with other BSP modules such as the QX51 to monitor motion and door events on a 2-wire cable run.



Daisy Chain with QX51s Mixed In



Wiring Diagram

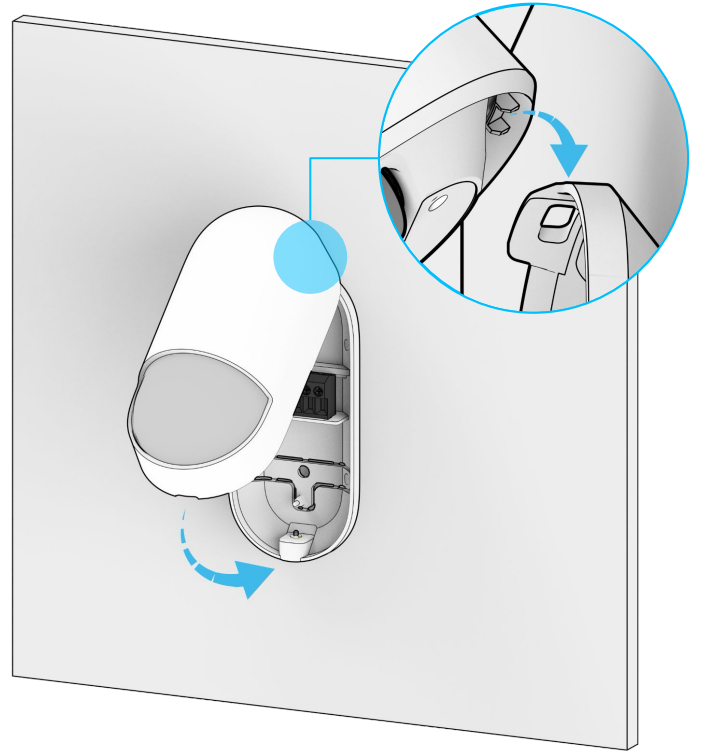
Daisy Chain with Only QM11-R



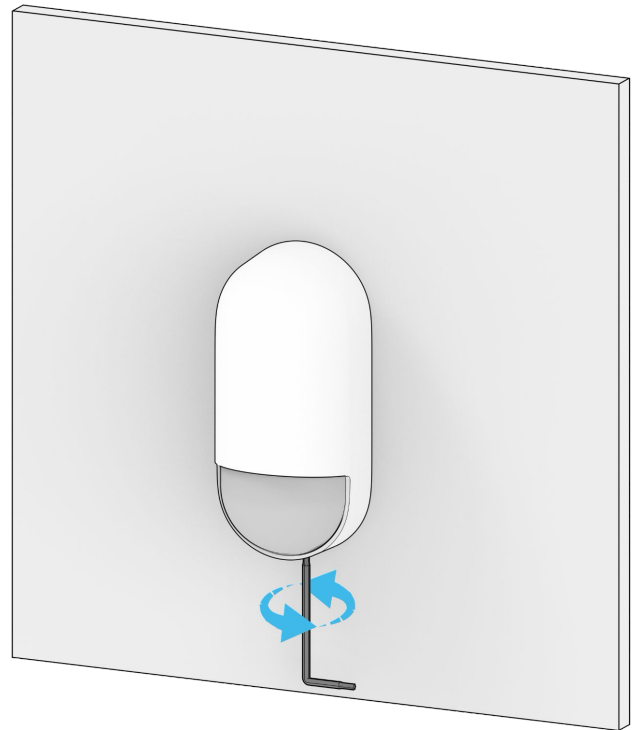
Installation

Mounting

After the mount plate is secured, engage the hook and swing the device toward the mount plate.



Use the provided T10 Security Torx Screwdriver to tighten the security screw at the bottom of the device.



Appendix

Compliance

FCC Compliance

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC Radiation Exposure Statement :

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 40cm between the radiator & your body. Any changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Professional Installation:

This device must be professionally installed. The intended use is generally not for the general public. It is generally for industrial and commercial use. Installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance and other FCC rules.

Appendix

Compliance

ISED Compliance

This device complies with ISED's licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

IC Radiation Exposure Statement:

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Déclaration d'exposition aux rayonnements d'IC : Cet équipement est conforme aux limites d'exposition aux rayonnements IC RSS-102 définies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20cm entre le radiateur et votre corps.

Supported Antennas:

This radio transmitter 26271-60B6802 has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Le présent émetteur radio 26271-60B6802 a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué pour tout type figurant sur la liste, sont strictement interdits pour l'exploitation de l'émetteur.

Appendix

Support

Thank you for purchasing this Verkada product. If for any reason you're experiencing issues or need assistance, please contact our 24/7 Technical Support Team immediately.

Sincerely,
The Verkada Team
verkada.com/support

