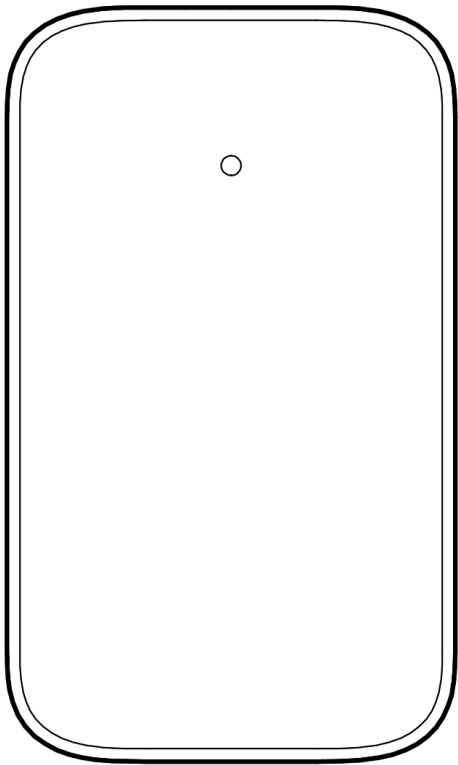


QX51 BSP Sensor Adapter



Document Details

Version

V1.0 20260915

(V1.0 published 20260915)

Firmware

Firmware version can be verified on Verkada

Command command.verkada.com.

Product Models

This install guide pertains to models: QX51-HW

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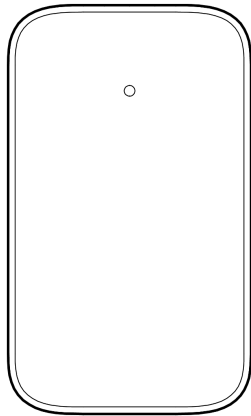
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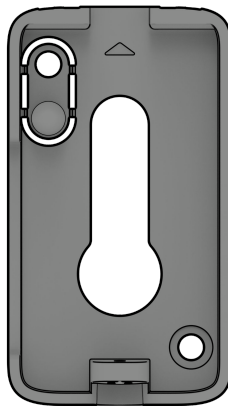
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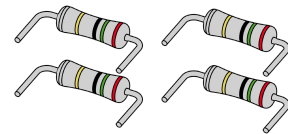
What's in the Box



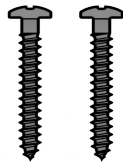
**BSP Sensor
Adapter**



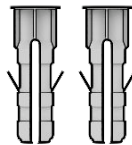
Mount Plate



**10kΩ EOL
Supervision Resistors
(4 pcs)**



**Wood Screws
M3.5 x 20mm
(2 pcs)**



**Wall Anchors
(2 pcs)**



**T10 Security
Torx L-Key**

What you'll need

- A smartphone or laptop
- #2 Phillips head and power drill (if using mount plate)
- 1/4 inch (6.5mm) drill bit for wall anchor pilot holes (if using mount plate)
- 1/8 inch (3.2mm) drill bit for wood screw pilot holes (if using mount plate)

Connect

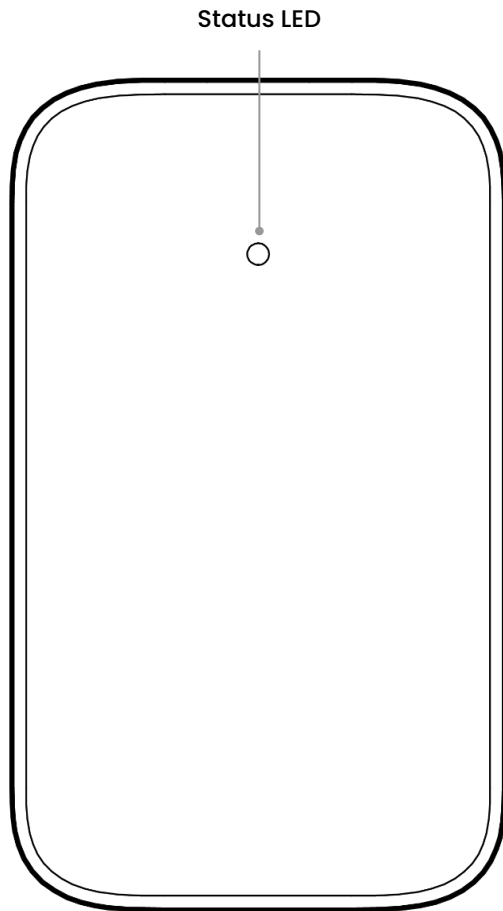
For easy registration and setup, scan the QR code on the product.

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

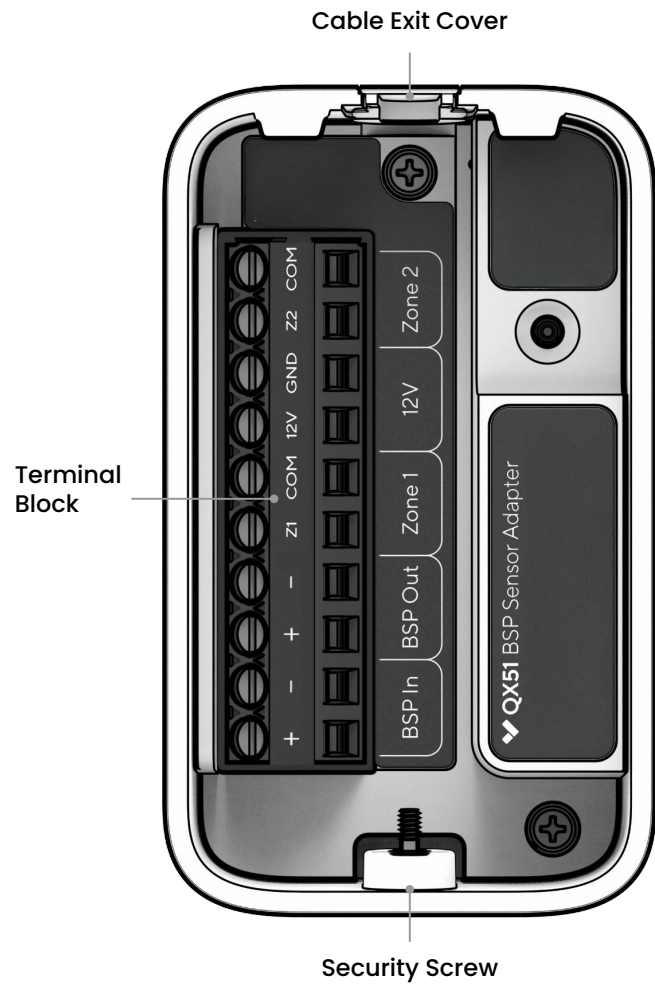
verkada.com/start

Overview

Front



Back



Status LED Behaviors

- OFF
Normal operation
- 🟢 **Flashing Green for 10 Seconds**
Identifying device/triggering LED in Command

Technical Specifications

Power Input	0.3W maximum input
Input Voltage	22-36 VDC Input
IOs	2x BSP Ports 2x alarm inputs • Compatible with EOL resistors (10kΩ) 1x 12V AUX (10mA Max)
Dimensions	47.4 x 79.8 x 30.9 mm (1.87 x 3.14 x 1.22 in)
Weight	80g (2.8oz)
Tamper Detection	Yes
Operating Temperature	-10 °C-50°C, 0-90% relative humidity
Compliance	FCC Part 15B Class B, ICES-003 Class B, CE, UKCA, VCCI, RCM, IK07, Indoor Use Only, to be used in controlled, protected, and/or restricted access areas.
Mounting Options	Wall or junction box
Included Accessories	T10 security Torx hex key, mounting hardware kit

Placement Options

The Adapter can be mounted to a wall, with the Mount Plate, or placed inside a junction box.



Mounting to Wall



Placing inside a junction box

Installation

Mounting

Mounting to Wall

Cable routing options: The cable can be passed through the wall or the cable exit.

Loosen the set screw and take off the Mount Plate from the device.

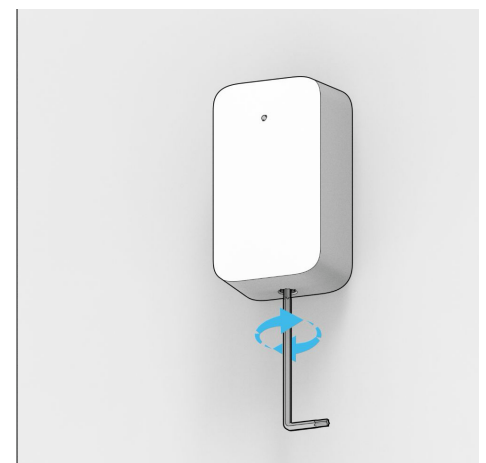
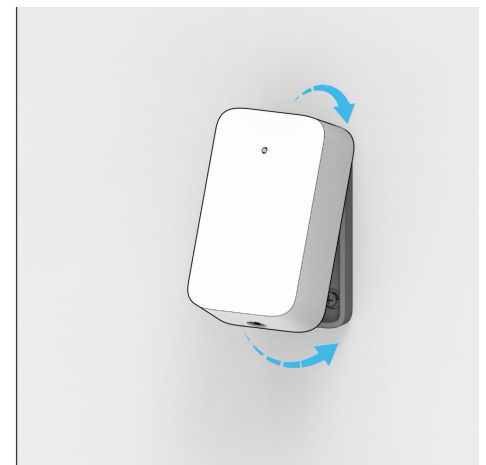
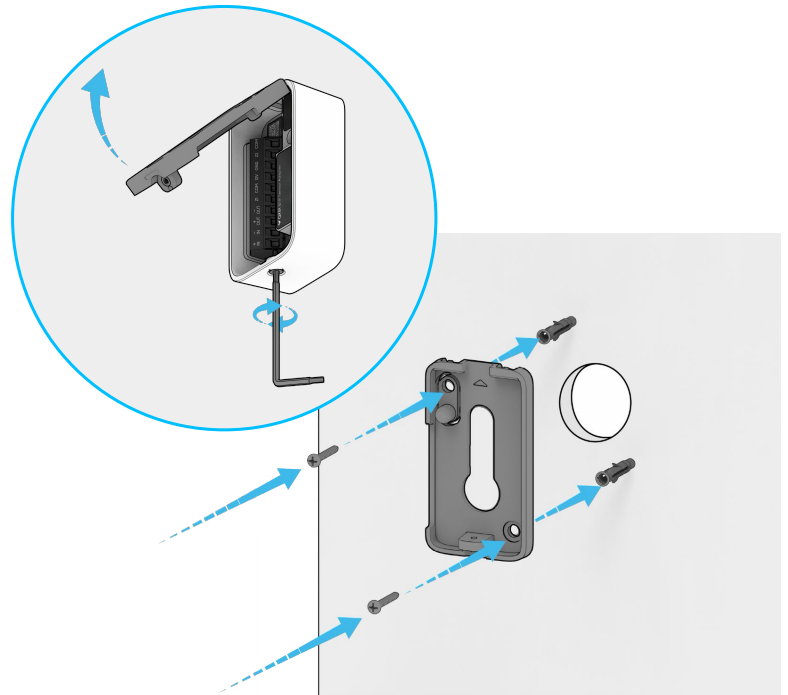
Use the Mount Plate as a template to mark holes for mounting and cable pass-through, if needed.

Secure the Mount Plate using the screws and wall anchors.

Refer to the *Wiring Instruction* section of this document.

After completing the wiring, engage the hook and swing the device toward the mount plate.

Tighten the security screw to lock the Adapter in place.



Mounting

Placing Inside a Junction Box

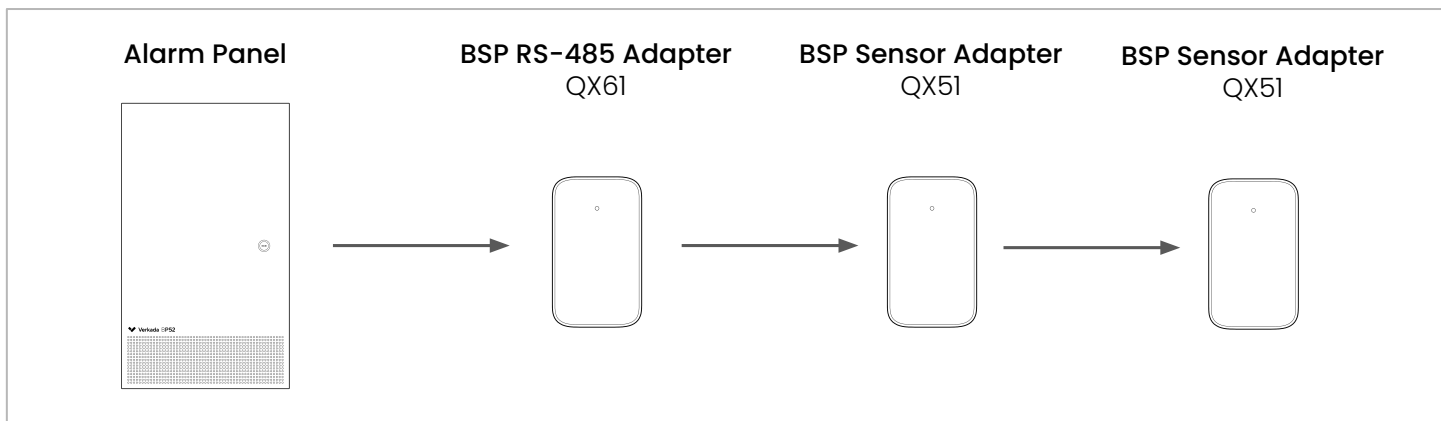
Pass the wire through the junction box conduit hole.

Refer to the *Wiring Instruction* section of this document.



BSP Sensor Adapter

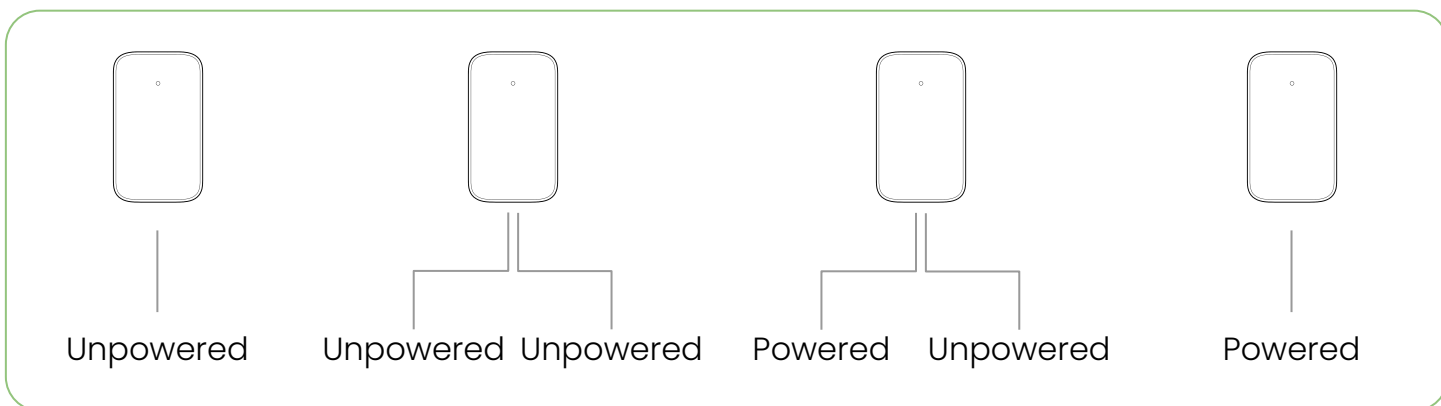
The QX51 is an addressable sensor module that expands the input capabilities of a Verkada alarm panel on one cable.



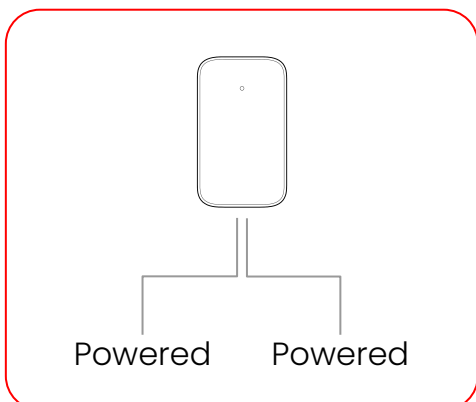
Adapter Configurations

Each QX51 can support up to two sensors in the following configurations: one unpowered sensor (e.g., door contact), two unpowered sensors, one powered sensor and one unpowered sensor (e.g., one door contact and one motion sensor), or one powered sensor.

Supported



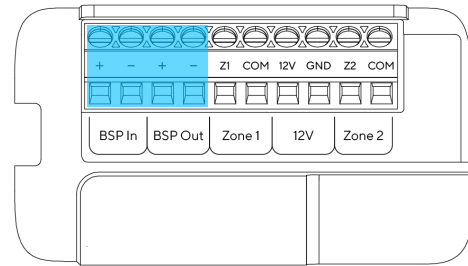
Not Supported



Terminal Block Configuration

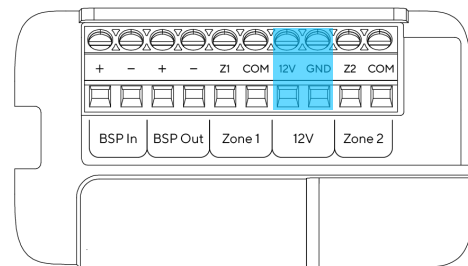
2-Wire BSP

Incoming and outgoing BSP connections for daisy-chaining multiple modules.



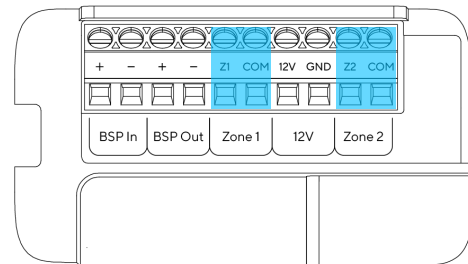
12V AUX

Provides power for a single powered sensor (e.g., a motion detector.)



Zone 1 / Zone 2

Input terminals for connecting sensors.

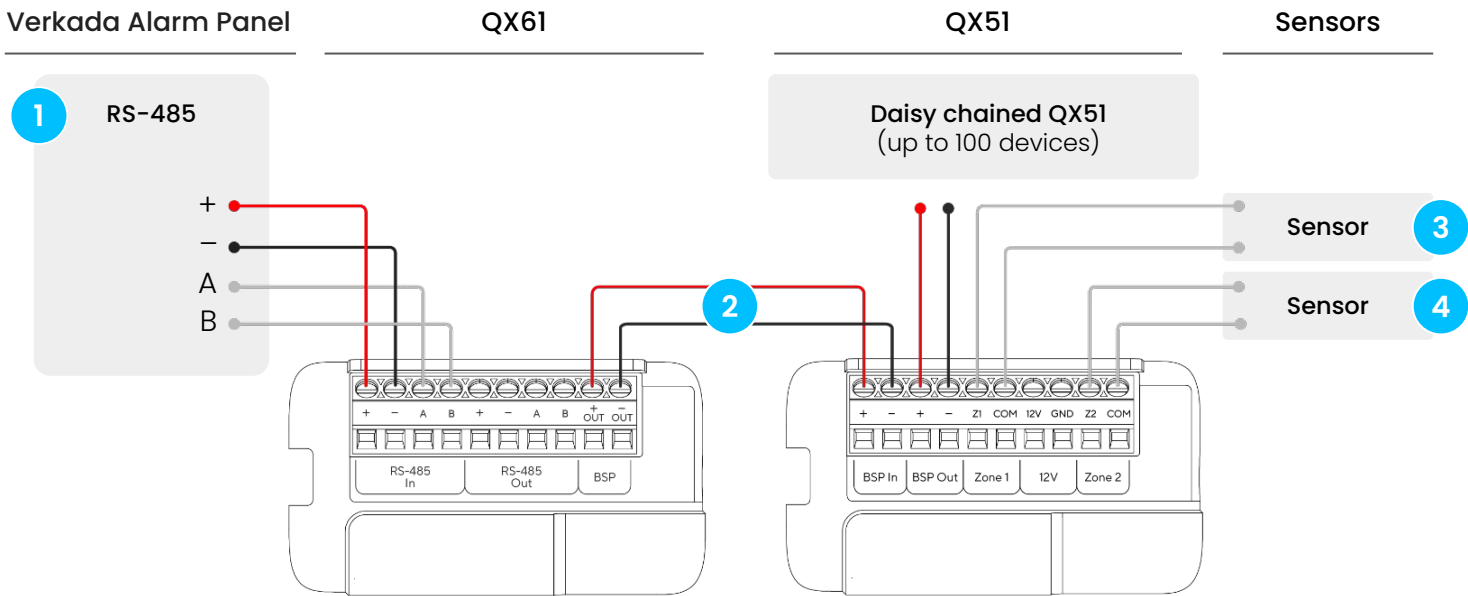


Warning

In the case of taking over a non-Verkada addressable / polling loop system, disconnect all the non-Verkada polling loop modules before connecting the loop to the Verkada alarm panel. This step is important as non-Verkada modules are not rated for the higher voltage supplied by the BP52, and could cause damage to the cable.

Installation

Wiring Diagram



- 1 Connect the QX61 to the RS-485 port on any Verkada Alarm Panel using a 4-conductor cable. Connect the QX51 either to a QX61 or directly to the BSP port on a BP42.
- 2 Daisy-chain the BSP cable from the QX61 through each QX51 module.
- 3 Connect your first sensor to Zone 1.
- 4 Connect your second sensor to Zone 2.
If using a powered sensor (like a motion detector), use the 12V AUX terminal for power.

Note: Each QX51 is limited to a maximum of one powered sensor. A maximum of 50 powered sensors are supported on one BSP run.

Wiring Best Practices

Ensure each cable is stripped sufficiently to allow the copper conductor to make full contact within the terminal block. Tighten all terminal screws and verify that no wires are loose.

Recommended Cables

Signal	AWG	Conductor	Shielded	Max Length
Power (22 Gauge)	22	Copper	Yes	1640 ft (500m)
Power (18 Gauge)	18	Copper	Yes	3937ft (1200m)



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 A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
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.

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

