

# B Series Control Panel

## Installer Quick Start Guide



Use this guide to quickly install a Bosch B6512/B5512/B4512/B3512 security system. Additional information is found in the Control Panels Installation Manual.

When you see this icon, use your smart phone with a QR code reader app to view helpful videos.

### For additional training:

**Bosch YouTube channel:**

1. Scan QR code.
2. Scroll down.
3. Locate and select your region for additional videos.

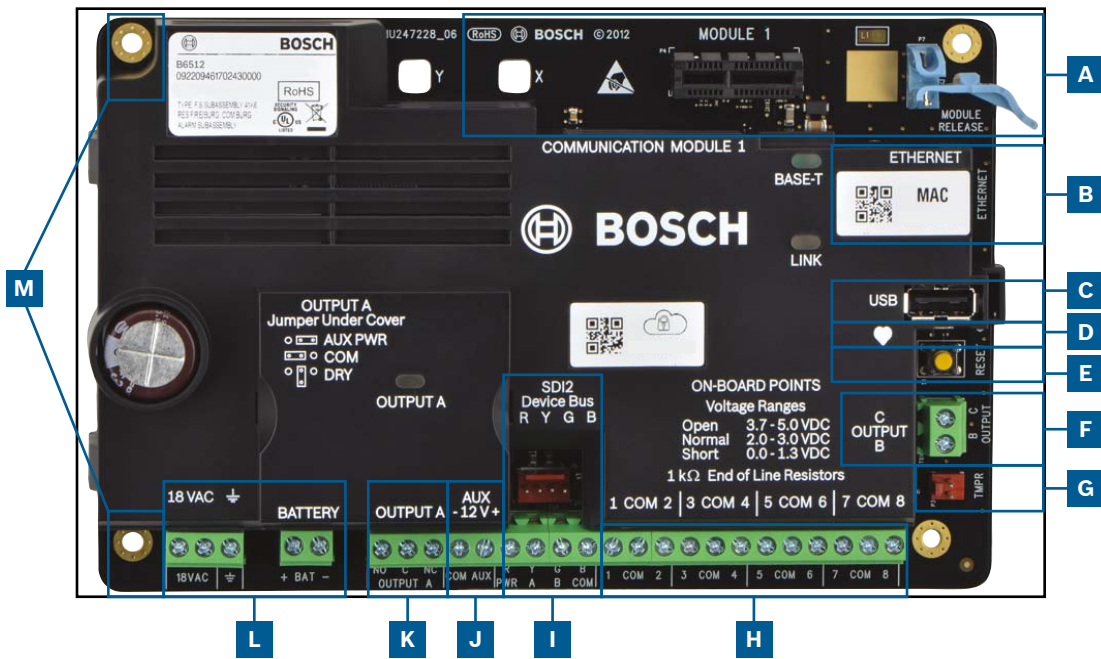
**B Series Installer's Site:**

(North America only)

**Installation sequence:**

Scan and follow these videos in sequential order to the steps listed below.

### Control panel component layout



### Control panel connection location

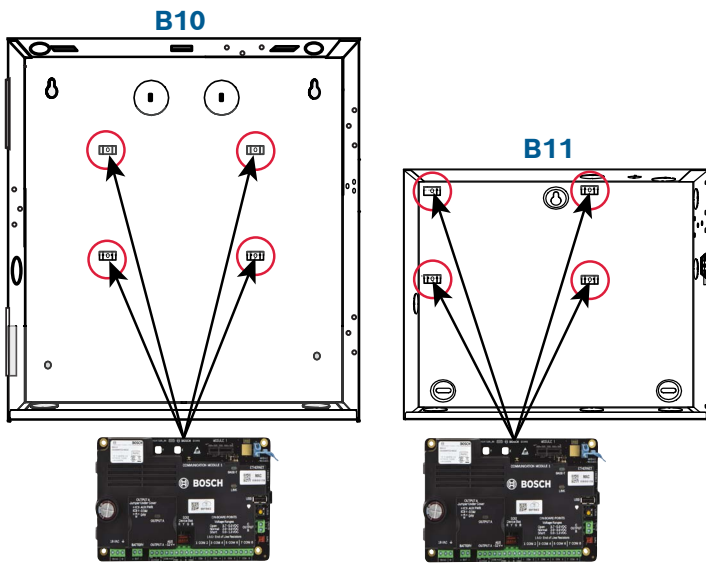
Location	Item	Description	Specification
A	MODULE 1	Plug-in comm module	Communication module options
B	ETHERNET	Ethernet port	built-in on-board Ethernet connection (10Base-T/100Base-T)
C	USB	USB port	USB connector (for firmware updates and RPS connection)
D	Heartbeat LED	Heartbeat LED	Slow=normal, rapid=service mode
E	Reset	Reset switch	Hold five seconds to enter or exit service mode
F	B C	Outputs B(2) C(3)	Open collector, 50mA, active low
G	TMPR	Tamper	Optional tamper switch connector (ICP-EZTS)
H	1 COM 2 to 7 COM 8	Alarm inputs	End Of Line (EOL) resistor supervised alarm inputs
I	R Y G B	SDI2 bus	SDI2 device bus
J	COM AUX	Aux power	12 VDC, 800mA
K	NO C NC	Output A(1)	Programmable relay output
L	+ BAT - 18 VAC, ground, 18 VAC	Battery, Earth ground, 18 VAC	Primary/Secondary power and Earth Ground connections
M	Mounting	Mounting holes	Mounting holes for control panel

### Step 1 Mounting the control panel

M

#### Bosch tips:

- ▶ Mount the enclosure prior to mounting the control panel.
- ▶ Mount control panel into enclosure with hardware provided.

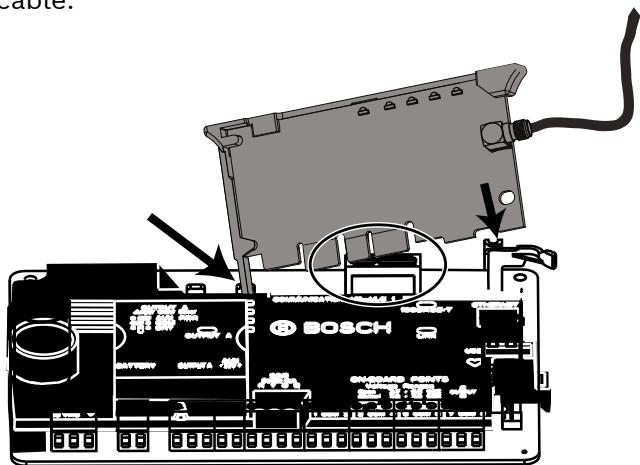


### Step 2 Installing a communication module

A

#### Bosch tips:

- ▶ Insert leg of module into slot marked "x."
- ▶ **Cellular:** Place antenna on top of enclosure and run cable inside, then connect to module.
- ▶ **PSTN:** Connect module to a D166 (RJ31x) jack using a D161/D162 cable.

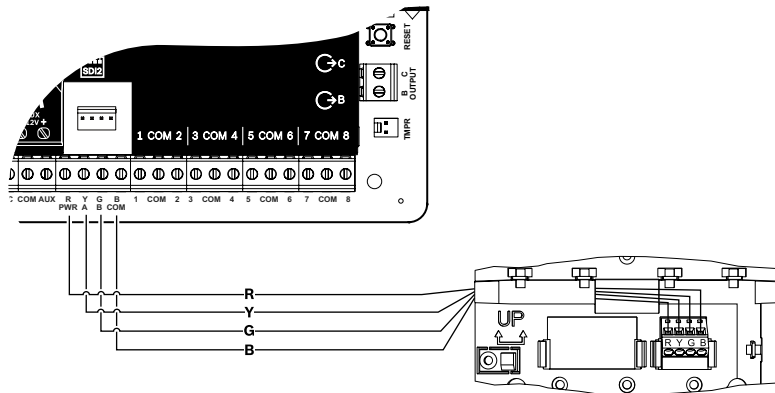


### Step 3 Installing a keypad

I

#### Bosch tips:

- ▶ When installing a compatible Bosch keypad, refer to keypad installation guide for specific wiring diagrams. Basic keypad wiring is shown below.
- ▶ When installing more than one keypad, refer to keypad installation guide for unique address settings.

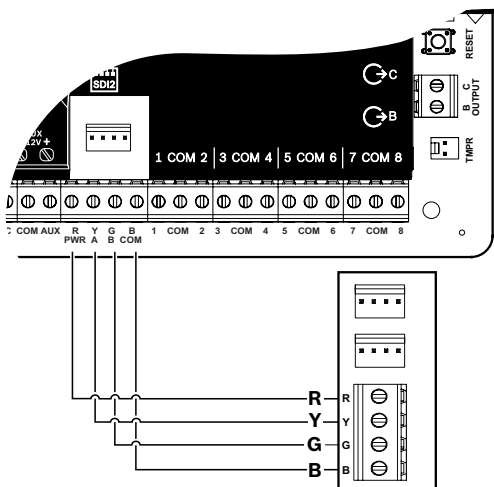


### Step 4 Installing expansion modules

I

#### Bosch tips:

- ▶ If installing more than one device that is similar, refer to the module's installation guide for address settings (for example, two of the same device).
- ▶ If installing a RADION B810 wireless receiver, use address 1 only.

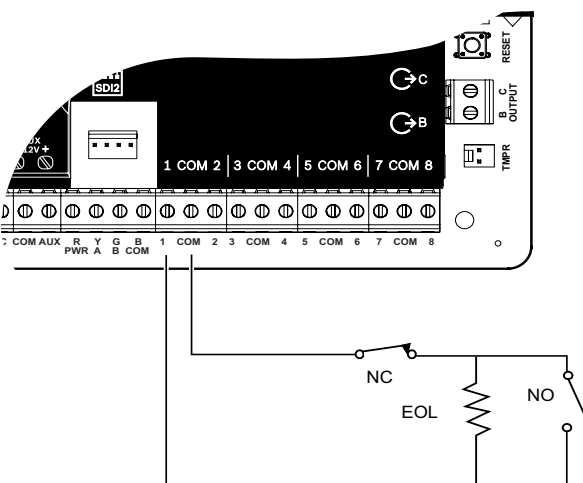


### Step 5 Installing wired inputs

H

#### Bosch tips:

- ▶ If using a dual EOL, 2K EOL, or no EOL, refer to control panel installation guide for control panel settings.
- ▶ If using 2-wired powered devices, use a B201 or D125B.



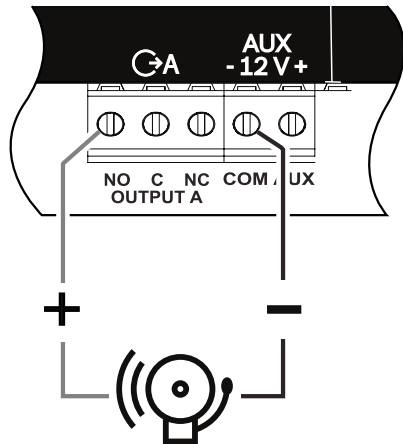
**NOTE:** Not all modules are available in all regions.

### Step 6 Installing a bell or siren

J K

#### Bosch tips:

- ▶ Output A can supply up to 1 A at 12 VDC when sourced from a control panel (jumper in AUX PWR position).
- ▶ Output A can support up to 3 amps at 12 VDC when using a separate power supply (jumper in DRY position).
- ▶ Output B and C are open collectors and are limited to 50 mA at 12 VDC.

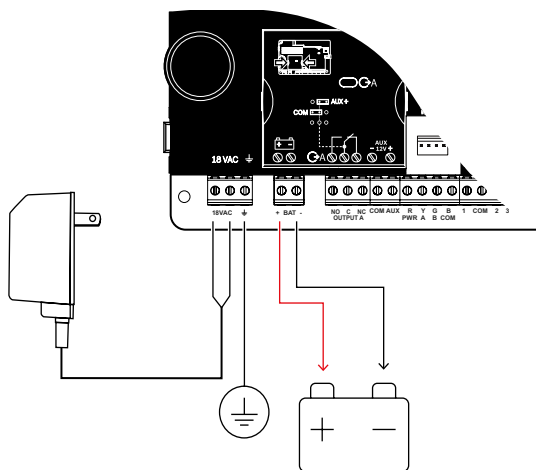


### Step 7 Powering the control panel

L

#### Bosch tips:

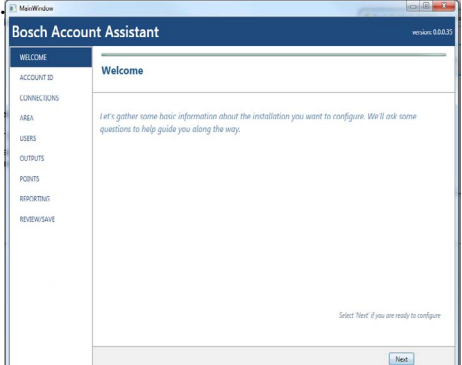
- ▶ Connect wires to control panel before applying battery or AC power.
- ▶ Connect earth ground to a cold water pipe (copper) or other solid connection to ground.



### Step 8 Create panel accounts using RPS

#### Bosch tips:

- ▶ If configuring using the Installer Services Portal, go to **Step 11**.
- ▶ Install Remote Programming Software (RPS) v6.06 or later. You can download RPS from the RPS product page.
- ▶ Follow the RPS Account Assistant instructions to create new control panel accounts. The Account Assistant helps you create a new panel account.
- ▶ If RPS is not available, keypad programming is an option. Refer to keypad installation instructions.

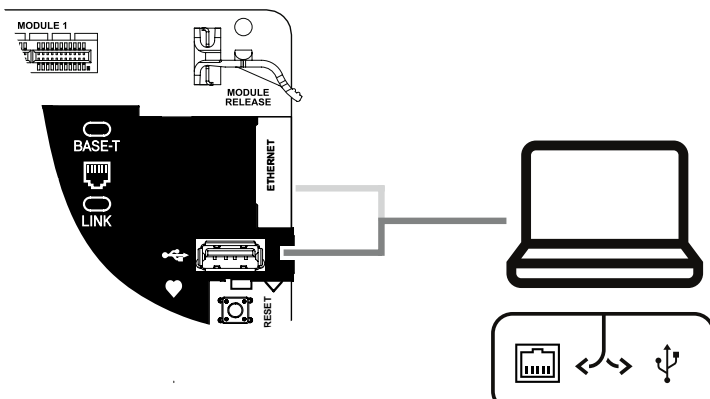


### Step 9 Connecting the control panel using RPS

B C

#### Bosch tips:

- ▶ Connect a computer with RPS installed. Direct RPS connections can be done through a USB connection or Ethernet connection.
- ▶ The Account Assistant automatically launches when you create a new account.
- ▶ For USB direct connection, use a B99 USB cable.





# B Series Control Panel

## Installer Quick Start Guide



### Step 10

#### Configure and send to control panel using RPS

**Bosch tips:**

- ▶ Program your configuration information using Account Assistant.
- 1. Press **close Account Assistant, and connect to control panel**. This opens the **Panel Communication** window.
- 2. Press **Connect** and send configuration programming to control panel.
- 3. Press **Disconnect** from control panel when programming is complete. Go to **Step 12**.

### Step 11a

#### Accessing the Installer Service Portal and create panel account

**Bosch tips:**

**Using the Installer Services Portal:** (Not in all regions)

- ▶ Before you can use Installer Services Portal you must register for services at: <https://sp.boschsecurity.com>.
- ▶ Make sure the control panel is connected to the network.
- 1. Log into the Installer Services Portal.
- 2. Click on **New** and select **Device** to create a panel account.
- 3. Add panel account information.
- 4. Activate CloudID. ISP searches database for registered ID.
- 5. Select **Activate**.
- 6. Click **Add Panel**.

### Step 11b

#### Connect and send using the Installer Service Portal

**Bosch tips:**

**Using the Installer Services Portal:**

- ▶ Search or select device to connect to a control panel. Type in panel account name in the Search field to locate new account.
- 1. Select the panel account.
- 2. Click **Connect**.
- 3. Click **Configuration**. Program your configuration information.
- 4. Click the 3 vertical dots and select **Push Pending Changes to Panel** to send configuration.
- 5. Click **Disconnect** when configuration is complete.

## B Series control panel accessories (partial list)

**Note:** Not all products and features are available in all regions. Consult your Bosch representative or product datasheets for details.

### Control panel

### Power

**B520** AUX Power Supply

**\*TR1850** 18 VAC Transformer

**\*CX4010** 18 VAC Transformer

**\*DE-45-18** 18 VAC Transformer

**D126** 7Ah Battery

**D1218** 18Ah Battery

**D135A** Low-Battery Disconnect Module

\*Country specific, variants will apply

### Communicators

**B430** Telephone (PSTN)

**B442** Cellular (GPRS SIM Required)

**B443** Cellular (HSPA+ SIM Required)

**B444** Cellular (Verizon LTE, hot SIM Required)

**B444-V** Cellular (Verizon LTE)

**B444-A** Cellular (AT&T LTE)

**B450** Remote Cellular Interface

(Not in all regions)

### Residential fire

**D132A** Reversing Relay

**D125B** Dual Class B Initiating Module

**D192G** Bell Super Vision Module

**B201** 2-wire powered loop

**F220/F220-B6R** Smoke Detector plus Base

(Not in all regions)

### Access modules

**B901** Access Module (B6512 only)

**B208** Octo-Input Module

**B308** Octo-Output Module

### I/O expansion modules

### Home automation

**G450 Z-Wave** Home Control Gateway

**Remote Security Plus** Mobile App

\*Home automation may not be available in all regions. Consult your Bosch representative for details.

### Wired motion detectors

#### Commercial Series

**ISC-CDL1-W15x** TriTech 50 ft.

**ISC-CDL1-WA15x** TriTech+ w/Anti-Mask 50 ft.

**ISC-BDL2-WP12G/WP6G/W12G** TriTech 40 X 40 ft./20 x 20 ft./ 40 x 40 ft.

**DS9370/DS9371** 360 TriTech 70 ft.

#### Blue Line Gen2 Series

#### Classic Series

### Keypads

**B942** Touch Screen

**B942W** Touch Screen

**B940W** Touch Screen

**B930** Text w/ Soft Keys

**B921C** Capacitive Touch

**B920** Text w/ Function Keys

**B915** Text

**B915I** Text

(Not in all regions)

### RFID tags (for Readers & B942 Keypads)

**ACA-ATR13**

**ACD-ATR11ISO**

**ACD-ATR14CS**

### IP camera integration

Any Bosch IP camera

### Enclosures & accessories

**B11** Small Enclosure

**B10** Medium Enclosure

**D137** Mounting Bracket

**D138** Mounting Bracket Right Angle

**ICP-EZTS** Universal Tamper

**B56** Keypad Backbox

**D101** Lock and Key set

### RADION wireless devices

-A versions of RADION devices are used in North and South America. Non -A versions are used in Europe, Africa, and Australia.

**B810** SDI2 Wireless Receiver

**RFPR** Wireless Repeater

**RFPR-C12** Curtain PIR, Pet Immune 40 x 5 ft.

**RFDL-11** PIR Microwave TriTech 35 x 25 ft.

**RFPR-12** PIR, Pet Immune 40 ft.

**RFGB** Glass Break Detector

**RFDW-RM** Recessed Door/Window Contact

**RFDW-SM** Surface Mount Door/Window Contact

**RFUN** Universal Transmitter w/ Door/Window Contact

**RFSM** Wireless Smoke Detector

**RFBT** Billtrap Transmitter

**RFPB-SB** 1 & 2 Button Panic

**RFPB-TB** 1 & 2 Button Panic

**RFKF-FBS** 2 & 4 Button Keyfobs

**RFKF-FBS** 2 & 4 Button Keyfobs

(Not in all regions)

### Inovonics wireless devices

**B820** Wireless Interface

**EN4200** Serial Receiver

(Not in all regions)

### Programming and software

**D5500CU** RPS Upgrade

**B99** USB Cable

**Remote Security Control** Mobile App

**Installer Services Portal**

(Not in all regions)

### Step 12

#### Test the system

After system installation and control panel programming, you must perform a complete system test. A complete system test includes testing the control panel, all devices, and communication destinations for proper operation.

**Bosch tips:**

- ▶ Perform a Walk Test
- 1. Select **Actions**.
- 2. Select **Test**.
- 3. Select **Walk Test**.
- 4. Choose a test to run.
- ▶ Send a test report

## FAQs

**What is my default code?**  
User Code: **123456**  
Installer Code: **123**

**How do I use Output B and C?**  
Outputs B and C are Open Collector Outputs. Wiring can be found in control panel installation manual, section heading **Open Collector Outputs**.

**How do you remotely turn on and turn off the control panel?**  
This can be done through the use of the Remote Security Control App.

**How do I connect directly to the control panel with Ethernet?**  
By default, the control panel is set up to auto detect and negotiate a connection to RPS when an ethernet cable is connected between them.

**What do I need to be able to send personal notifications?**  
SMS (Text) messages require the use of a cellular module and emails can be sent by either an Ethernet or Cellular connection.

**How do I enter "Service Mode"?**  
Press and hold the yellow reset button on the control panel for 5 seconds (repeat to exit).

## Where can I go for additional information?

[www.boschsecurity.com](https://www.boschsecurity.com)

Bosch Security Systems B.V.  
Torenallee 49  
5617 BA Eindhoven  
Netherlands



## 2 | Specifications

Dimensions	27.8 cm x 25.9 cm x 8.32 cm (10.9 in x 10.2 in x 3.3 in)
Color	White
Compatible Lockset (optional)	D101 Lock and Key Set
Compatible Dual Tamper Switch (optional)	ICP-EZTS Tamper Switch D110 Tamper Switch
Material	0.7 mm (22 gauge) cold-rolled steel

## Small Control Panel Enclosure B11



en Installation Guide



### Reading Bosch Security Systems B.V. Product Date Codes

For Product Date Code information, refer to the Bosch Security Systems B.V.  
Web site at: <http://www.boschsecurity.com/datecodes/>.

### Bosch Security Systems B.V.

Torenallee 49  
5617 BA Eindhoven  
Netherlands

[www.boschsecurity.com](http://www.boschsecurity.com)

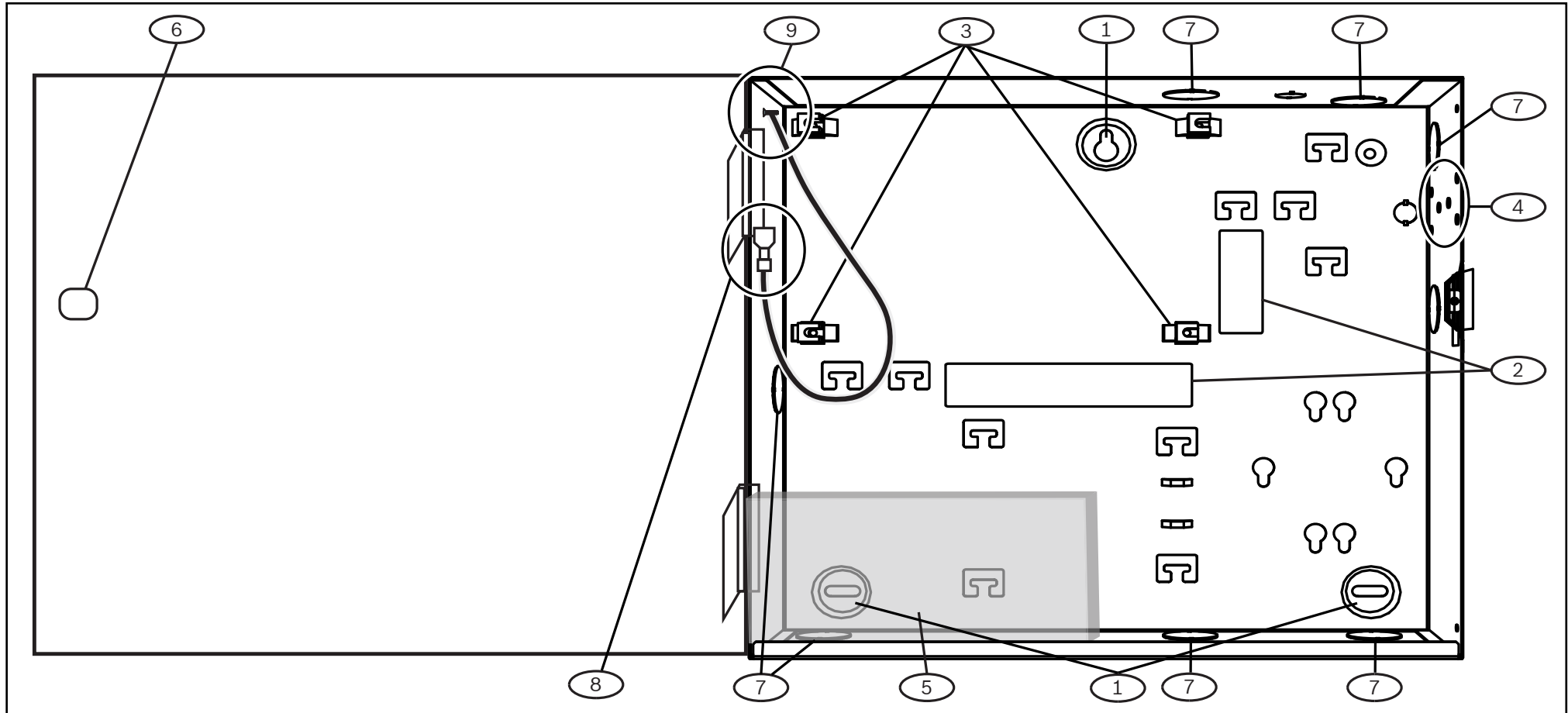
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## 1 | Overview





This enclosure is compatible with select Bosch intrusion products, and can hold one batteries.



Callout	Description
1	Enclosure mounting holes (3) Bosch recommends using #8 screws and wall anchors to install.
2	Wire knockouts (9)
3	Control panel mounting location
4	Tamper switch mounting location
5	Battery mounting location (size 7Ah)
6	Lockset mounting location
7	Conduit knockouts (8) 12.7 mm (1/2 in)
8	Grounding (bonding) connection to enclosure door
9	Grounding (bonding) connection for door only. Do not connect any other wires to this lug.



4 | Status indicators

Status indicator	Function
	Green - Ready to turn Part On Red - Part On (part armed)
	Green - ready to turn All On Red - All On (all armed)
	Yellow - System trouble
	Blue - AC power present

5 | Audible tones

Tone	Description
Fire signal	When an area is in fire alarm, the keypad emits a pulsed, high-pitched bell tone.
Gas signal	When a gas point activates, the keypad emits a unique high-pitched tone.
User alarm	When a user alarm (such as panic and medical alarms) occurs, the tone sounds for the programmed amount of time.
Burglary signal	When an area is in alarm, the keypad emits a steady, high-pitched bell tone.
Entrance warning	During delay periods, the keypad emits an intermittent beep to remind the user to disarm the area.
Exit warning	During exit delay, the keypad emits an intermittent beep.
Invalid button buzz	When an invalid button, or sequence of buttons, is pressed, the keypad emits a flat buzz tone.
Keypad encoding tone	When the keypad accepts an entry, it emits a muted beep tone as each button is pressed.
Trouble buzzer	When a trouble event occurs, such as a service alert, the keypad emits a two-tone warble until you enter a programmed passcode with the appropriate authority.
Watch tone	Anytime a watch point is faulted, a single clean tweedle tone alerts the user.

6 | Supervision

The control panel supervises all SDI2 devices. Any device that fails to respond will be declared missing.

7 | Showing the firmware version

Remove, then add power. The model number, keypad address, and firmware version show for 10 seconds.



**NOTICE!**  
You can also view a keypad’s firmware version in RPS.

8 | Keypad cleaning

Use a soft cloth or a non-abrasive cleaning solution. Spray the cleaner onto the cloth, not the keypad.

9 | Specifications

Dimensions	5.5 in x 4.7 in x 1 in (139 mm x 118 mm x 23 mm)
Voltage (input)	12 VDC nominal
Current	35 mA in standby mode 70 mA in alarm mode
Operating temperature	0°C to +50°C (+32°F to +122°F)
Relative humidity	5% to 93% at +32°C (+90°F) non-condensing
Terminal wire size	18 AWG to 22 AWG (1.02 mm to 0.65 mm)
SDI2 wiring	Maximum distance - wire size (unshielded wire only): 984 ft (300 m) - 18 AWG to 22 AWG (1.02mm to 0.65 mm)
Compatibility	B9512G/B9512G-E B8512G/B8512G-E B6512 B5512 version 2.03 and higher B4512 version 2.03 and higher B3512 version 2.03 and higher D9412GV4 version 2.03 and higher D7412GV4 version 2.03 and higher (Refer to the control panel installation document for the number of supported devices.)

10 | Certifications

Region	Certification
US	UL 365 - Police Station Connected Burglar Alarm Units and Systems
	UL 609 - Local Burglar Alarm Units and Systems
	UL 636 - Holdup Alarm Units and Systems
	UL 985 - Household Fire Warning System Units
	UL 1023 - Household Burglar-Alarm System Units
	UL 1076 - Proprietary Burglar Alarm Units and Systems
	UL 1610 - Central Station Burglar Alarm Units
	CSFM - California Office of The State Fire Marshal
	FCC Part 15 Class B
	CP-01-2010 - Control Panel Standard - Features for False Alarm Reduction
CA	Canada CAN/ULC S303 - Local Burglar Alarm Units and Systems
	CAN/ULC S304 - Signal Receiving Centre and Premise Alarm Control Units
	CAN/ULC S545 - Residential Fire Warning System Control Units
	CAN/ULC S559 - Fire Signal Receiving Centres and Systems
	ULC-ORD C1023 - Household Burglar Alarm System Units
	ULC-ORD C1076 - Proprietary Burglar Alarm Units and Systems
	ICES-003 - Digital Apparatus

DE-de: Für Dokumentation in Ihrer Sprache, klicken Sie hier <https://de.boschsecurity.com/de>

EL-gr: Μεταβείτε στη διεύθυνση <https://gr.boschsecurity.com/el/> για την τεκμηρίωση σε αυτήν τη γλώσσα.

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Hu-hu: A honosított dokumentációt lásd a <https://hu.boschsecurity.com/hu/oldalon>.

It-it: Andare a <https://it.boschsecurity.com/it/> per la documentazione in questa lingua.

NL-nl: Voor de documentatie in uw taal, ga naar <https://www.boschsecurity.com/nl/nl>

Pl-pl: Dokumentacja w tym języku znajduje się w witrynie <https://pl.boschsecurity.com/pl/>

Pt-br: Acesse <http://pt.boschsecurity.com/pt/> para obter a documentação neste idioma.

SE-sv: For documentation in this language, go to <https://www.boschsecurity.com/xn/en/>

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**Bosch Security Systems, Inc. product manufacturing dates**  
Use the serial number located on the product label and refer to the Bosch Security Systems, Inc. website at <http://www.boschsecurity.com/datecodes/>.



Basic Keypad  
B915/B915I



BOSCH

en Installation Guide

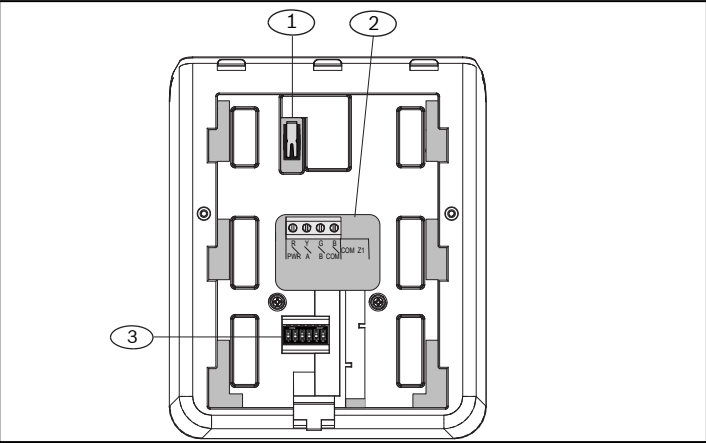
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Netherlands  
[www.boschsecurity.com](http://www.boschsecurity.com)





## 1 | Overview

The B915 and B915I keypads are SDI2 bus devices. The B915 function keys are labeled in English. The B915I function keys are labeled with icons.



### Callout – Description

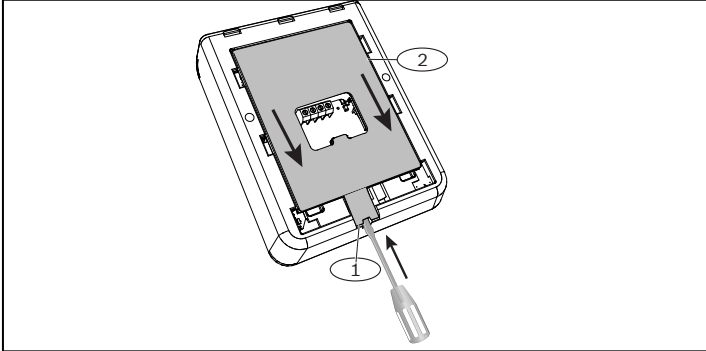
- 1 – Tamper switch
- 2 – SDI2 wiring terminal block
- 3 – Address switches

## 2 | SDI2 address switches

Address switches set the address for the keypad. The control panel uses the address for communications. To set the switches, use a ballpoint pen.

### 2.1 | Accessing the address switches

- Insert a slotted screwdriver under the mounting plate (callout #1). Do not pry upwards.
- To release the mounting plate, push the plate towards the bottom of the keypad.
- Remove the plate. Refer to the following illustration.

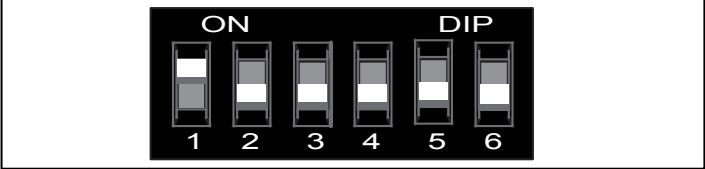


### Callout – Description

- 1 – Retention clip
- 2 – Mounting plate

## 2.2 | Setting the keypad address

To set the keypad addresses (per the control panel configuration), use the DIP switches. If multiple SDI2 keypads are on the same system, each keypad must have a unique address. The following illustration shows the address switch setting for address 01. Refer to the table for keypad address settings for address 00 to 32.



SDI2 Address	DIP Switches ON						SDI2 Address	DIP Switches ON					
	1	2	3	4	5	6		1	2	3	4	5	6
00							17	X				X	
01	X						18		X			X	
02		X					19	X	X			X	
03	X	X					20			X		X	
04			X				21	X		X		X	
05	X		X				22		X	X		X	
06		X	X				23	X	X	X		X	
07	X	X	X				24				X	X	
08				X			25	X			X	X	
09	X			X			26		X		X	X	
10		X		X			27	X	X		X	X	
11	X	X		X			28			X	X	X	
12			X	X			29	X		X	X	X	
13	X		X	X			30		X	X	X	X	
14		X	X	X			31	X	X	X	X	X	
15	X	X	X	X			32						X
16					X								

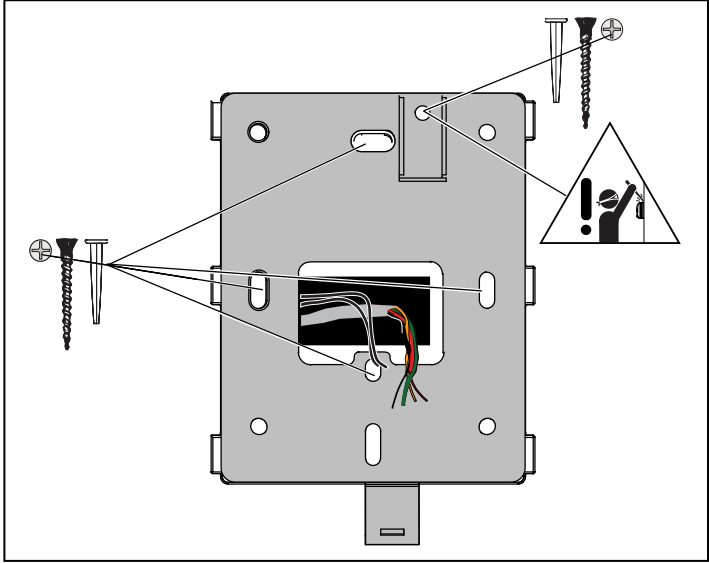
## 3 | Installing



**CAUTION!**  
Remove all power (AC and battery) before making any connections. Failure to do so might result in personal injury and/or equipment damage.

### 3.1 | Installing the mounting plate

- Use the mounting plate to mark screw locations and wire opening.
- Pull the wiring through the wire opening.
- Use the mounting hardware to attach to the wall.



### 3.2 | Installing the tamper screw

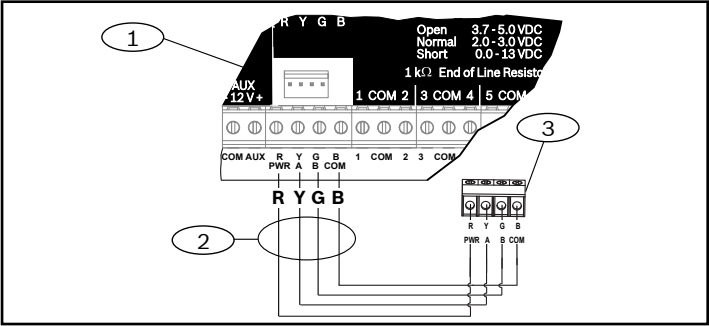
To provide tamper protection, install a screw into the tamper location shown above.

### 3.3 | Wiring the keypad

- Connect the wiring to keypad terminals labeled R, Y, G, B.
- Attach the keypad to the mounting plate.

## 3.4 | Wiring to the control panel

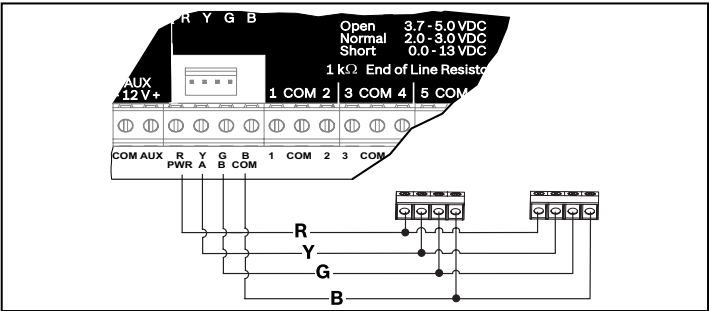
Attach the wire to the control panel using terminals labeled R, Y, G, B (PWR, A, B, COM). Refer to the following illustration. B5512 control panel shown.



### Callout – Description

- 1 – Control panel
- 2 – Terminal wiring
- 3 – Keypad’s wiring terminal block

Use the control panel terminals labeled R, Y, G, B (PWR, A, B, COM). Connect them to the keypad terminals labeled R, Y, G, B. Keypads can be wired directly to the control panel or from keypad to keypad.



### 3.5 | Attaching the keypad

- Align the mounting hook openings over the mounting hooks.
- Push the keyboard down.
- Send power to the system.
- Test for proper operation.