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.

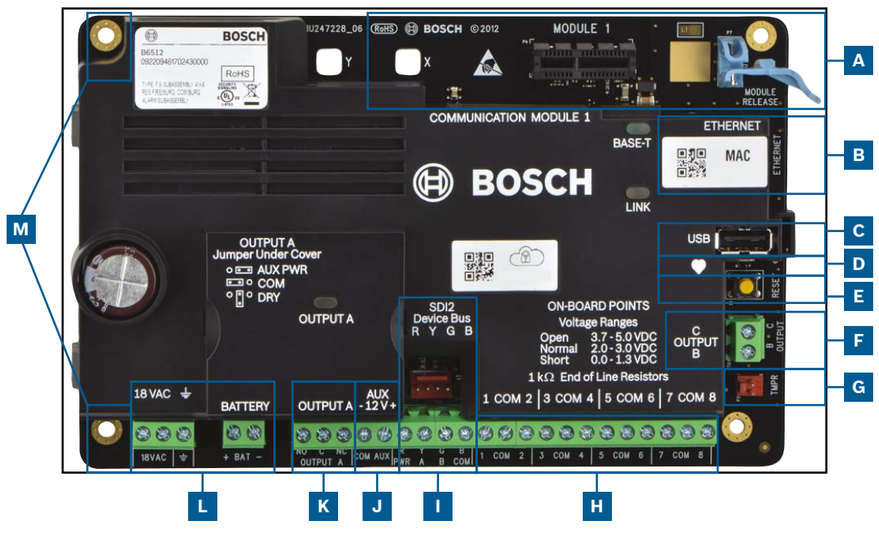
B Series Installer's Site:

(North America only)

Installation sequence:

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

Control panel component layout



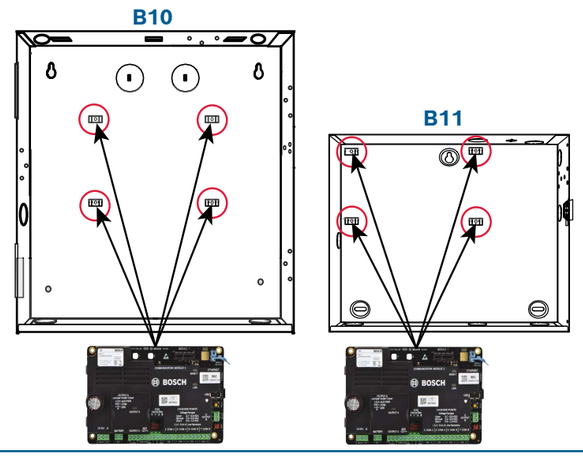
Control panel connection location

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	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, ⏚	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:

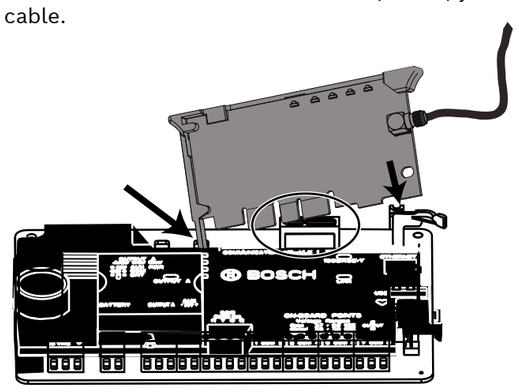
- Mount the enclosure prior to mounting the control panel.
- Mount control panel into enclosure with hardware provided.



Step 2 Installing a communication module — A

Bosch tips:

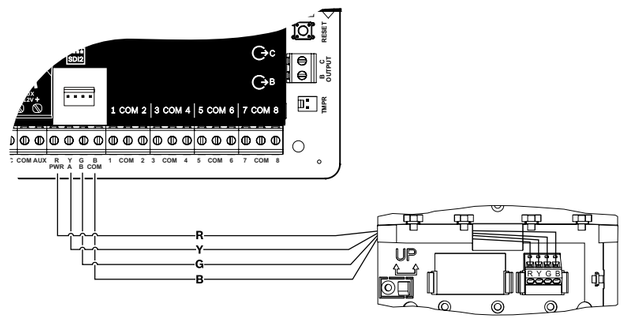
- Insert leg of module into slot marked "x."
- **Cellular:** Place antenna on top of enclosure and run cable inside, then connect to module.
- **PSTN:** Connect module to a D166 (RJ31x) jack using a D161/D162 cable.



Step 3 Installing a keypad — I

Bosch tips:

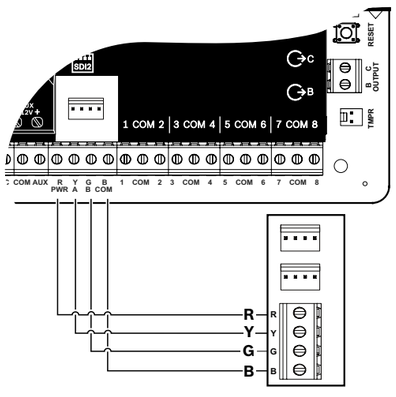
- When installing a compatible Bosch keypad, refer to keypad installation guide for specific wiring diagrams. Basic keypad wiring is shown below.
- When installing more than one keypad, refer to keypad installation guide for unique address settings.



Step 4 Installing expansion modules — I

Bosch tips:

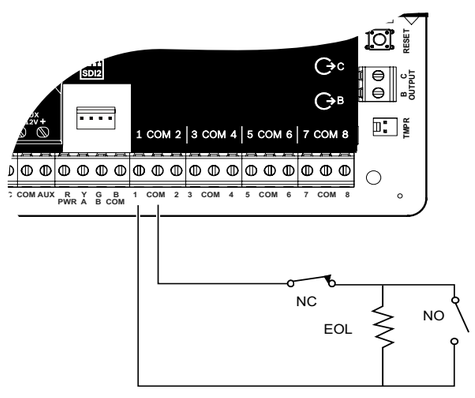
- If installing more than one device that is similar, refer to the module's installation guide for address settings (for example, two of the same device).
- If installing a RADION B810 wireless receiver, use address 1 only.



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.

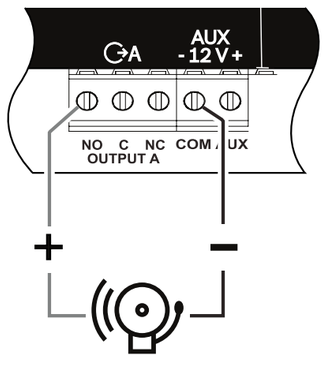


NOTE: Not all modules are available in all regions.

Step 6 Installing a bell or siren — J K

Bosch tips:

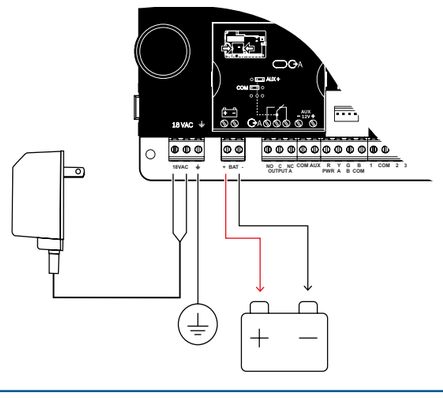
- Output A can supply up to 1 A at 12 VDC when sourced from a control panel (jumper in AUX PWR position).
- Output A can support up to 3 amps at 12 VDC when using a separate power supply (jumper in DRY position).
- Output B and C are open collectors and are limited to 50 mA at 12 VDC.



Step 7 Powering the control panel — L

Bosch tips:

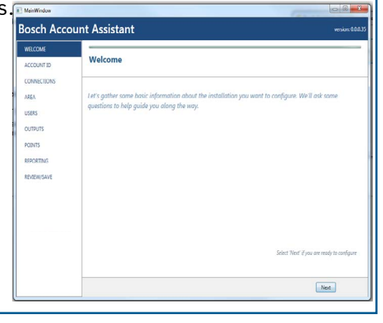
- Connect wires to control panel before applying battery or AC power.
- Connect earth ground to a cold water pipe (copper) or other solid connection to ground.



Step 8 Create panel accounts using RPS

Bosch tips:

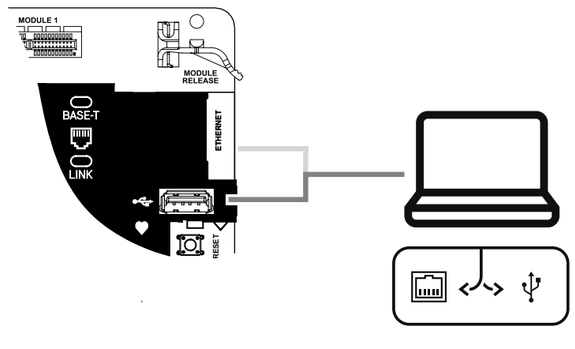
- If configuring using the Installer Services Portal, go to **Step 11**.
- Install Remote Programming Software (RPS) v6.06 or later. You can download RPS from the RPS product page.
- Follow the RPS Account Assistant instructions to create new control panel accounts. The Account Assistant helps you create 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

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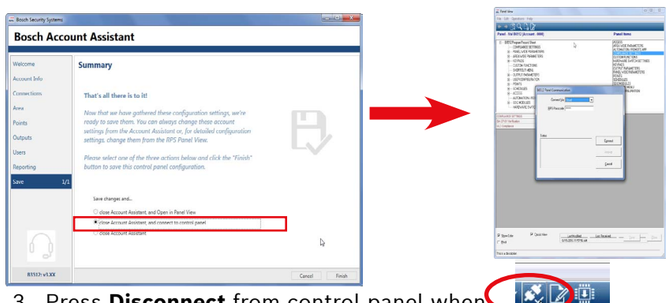
Step 10 Configure and send to control panel using RPS

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

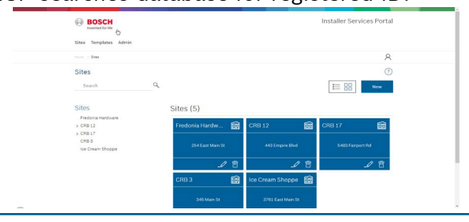
Bosch tips:

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**.



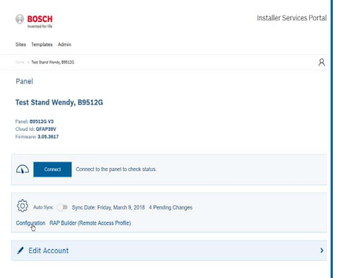
Step 11b Connect and send using the Installer Service Portal

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.

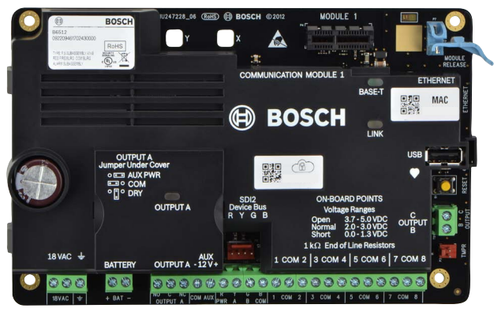
1. Select the panel account.
2. Click **Connect**.
3. Click **Configuration**. Program your configuration information.
4. Click the 3 vertical dots and select **Push Pending Changes to Panel** to send configuration.
5. Click **Disconnect** when configuration is complete.



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



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
RFRP 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

(Not in all regions)

RFDW-RM Recessed Door/ Window Contact

RFDW-SM Surface Mount Door/Window Contact

RFUN Universal Transmitter w/ Door/Window Contact

RFSM Wireless Smoke Detector

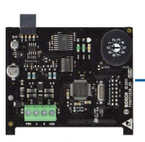
RFBT Billtrap Transmitter

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

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

Inovonics wireless devices

B820 Wireless Interface



(Not in all regions)

EN4200 Serial Receiver

(Not in all regions)

Programing and software

D5500CU RPS Upgrade

B99 USB Cable

Remote Security Control Mobile App

Installer Services Portal

(Not in all regions)

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

Keypads

B942 Touch Screen

B942W Touch Screen

B940W Touch Screen

B930 Text w/ Soft Keys

(Not in all regions)

B921C Capacitive Touch

(Not in all regions)

B920 Text w/ Function Keys

B915 Text

B915I Text

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

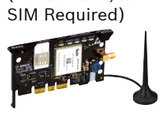
Communicators

B430 Telephone (PSTN)

B442 Cellular (GPRS SIM Required)

B443 Cellular (HSPA+ SIM Required)

B444 Cellular (Verizon LTE, hot SIM Required)



(Not in all regions)

B444-V Cellular (Verizon LTE)

(Not in all regions)

B444-A Cellular (AT&T LTE)

B450 Remote Cellular Interface

Residential fire

D132A Reversing Relay

(Not in all regions)

D125B Dual Class B Initiating Module

D192G Bell Super Vision Module

(Not in all regions)

B201 2–wire powered loop

F220/F220-B6R Smoke Detector plus Base

Access modules

B901 Access Module (B6512 only)

I/O expansion modules

B208 Octo-Input Module

B308 Octo-Output Module

*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.

(Not in all regions)

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

(Not in all regions)

Blue Line Gen2 Series

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

Classic Series

DS9370/ DS9371 360 TriTech 70 ft.

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

(B942 is keypad shown)

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

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

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F.01U.324.620 | 04 | 2019.09

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

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/.

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Netherlands
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WPP

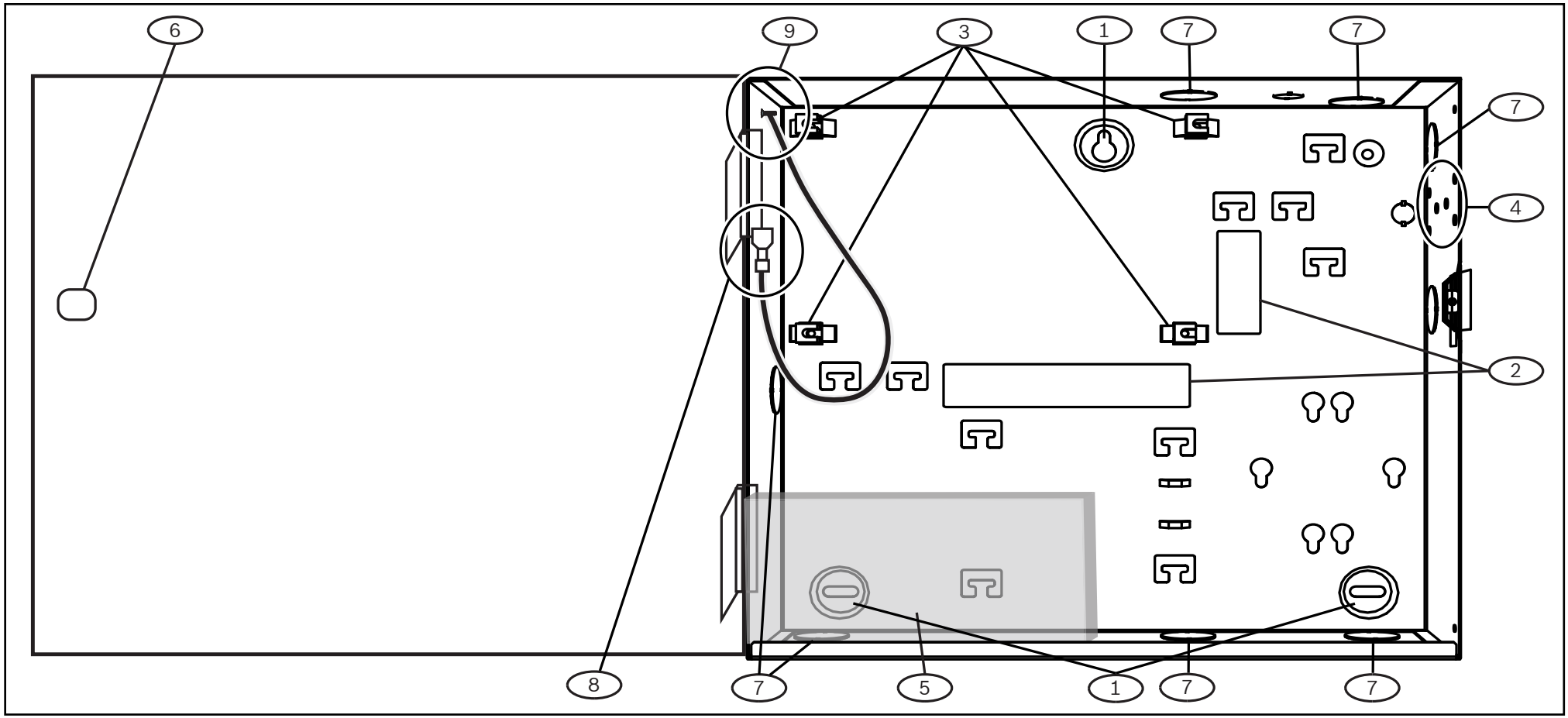
Small Control Panel Enclosure
B11

BOSCH

en Installation Guide

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.

5 | Certifications

Region	Certification
US	UL 365 - Police Station Connected Burglar Alarm Units and Systems UL 636 - Holdup Alarm Units and Systems UL 864 - Control Units and Accessories for Fire Alarm Systems (Commercial Fire) 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 FCC Part 15 FCC Part 68 FCC Registration Number: ESVAL00BB430 Ringer Eq: 0.0B
Canada	CAN/ULC S303 - Local Burglar Alarm Units and Systems CAN/ULC S304 - Signal Receiving Centre and Premise CAN/ULC S545 - Residential Fire Warning System Control CAN/ULC S559 - Fire Signal Receiving Centres and Systems ICES-003 - Information Technology Equipment (ITE) ULC-ORD C1023 - Household Burglar Alarm System Units ULC-ORD C1076 - Proprietary Burglar Alarm Units and System

6 | Specifications

Dimensions	2 in x 3.68 in x 0.60 in (50 mm x 93.5 mm x 15.25 mm)
Voltage (operating)	12 VDC nominal
Current (maximum)	Standby: 24 mA Alarm: 24 mA
Operating temperature	+32°F to +120°F (0°C to +49°C)
Relative humidity	5% to 93% at +90°F (+32°C)
Communication speed	2400 baud maximum
Compatibility	B9512G/B9512G-E B8512G/B8512G-E B6512 B5512/B5512E B4512/B4512E B3512/B3512E

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.

Es-es: Visite https://es.boschsecurity.com/es/ para obtener documentación en este idioma.

Fr-fr: Accédez à l'adresse https://fr.boschsecurity.com/fr/ pour obtenir la documentation dans cette langue.

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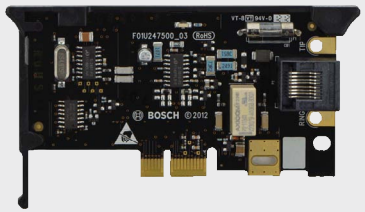
Bosch Security Systems, Inc. product manufacturing dates
Use the serial number located on the product label and refer to the Bosch Security Systems, Inc. website at http://www.boschsecurity.com/datecodes/.

WPP



Plug-in Telephone Communicator
B430

BOSCH

en Installation Guide

Bosch Security Systems, B.V.
Torenallee 49
5617 BA Eindhoven
Netherlands
www.boschsecurity.com

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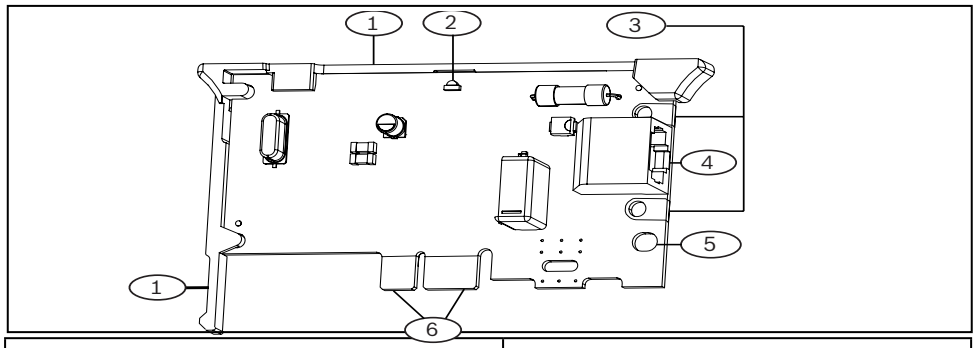
1 | Overview

The B430 connects to the control panel for communication over the PSTN (Public Switched Telephone Network).



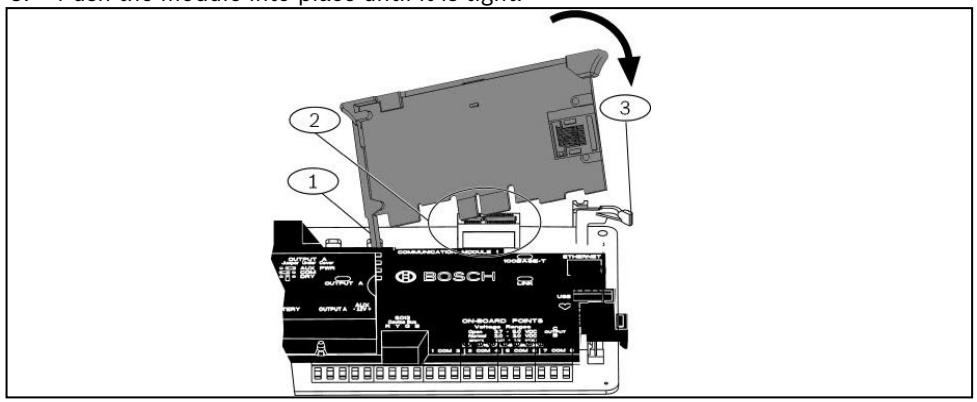
Callout – Description	Callout – Description
1 – Module handle and support leg	4 – RJ45 phone connector
2 – Line seize/ring LED	5 – Plug-in module retention clip opening
3 – Test phone pads	6 – PCB metal contacts

2 | Install or remove the module

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

2.1 | Install the module

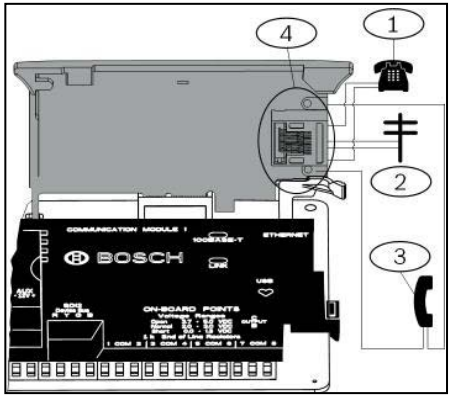
1. Insert the support leg into the support hole labeled X.
2. Align the PCB metal contacts with the on-board connector.
3. Push the module into place until it is tight.



Callout – Description	Callout – Description
1 – Support leg	3 – Plug-in module retention clip
2 – PCB metal contacts	

2.2 | Wire the module

1. Connect one end of a telephone cord to the B430.
2. Connect the other end to an RJ31X or RJ38X phone jack. The module has pads on both sides of the board to connect a telephone test set. Refer to the following illustration.



Callout – Description
1 – Premises telephone
2 – Incoming Telco line
3 – Installer telephone test set
4 – RJ45 phone connector

2.3 | Remove the module

1. Open the retention clip.
2. Hold the top corners of the support handle.
3. Pull out the module.

3 | LED descriptions

Refer to the following table.

Flash pattern	Function
OFF Steady	Standby
ON Steady	Line seize
Flash	Ring detect

4 | Configuration

Use Remote Programming Software (RPS) or an SDI2 keypad to program.

For programming parameter descriptions, options, and defaults refer to *RPS Help* or the *Program Entry Guide* for your control panel.

5 | Status indicators

Status indicator	Function
✓	Ready to turn on (arm)
🔒	Turned on (armed)
⚠	System trouble
GAS	Gas alarm
🔌	AC power present

6 | Audible tones

The keypad has a built-in speaker that produces several distinct warning tones.

Tone	Description
Fire alarm	Emits a pulsed, high-pitched bell tone.
Gas alarm	Emits a unique high pitched tone.
User alarm	The tone sounds for the programmed amount of time.
Burglary alarm	Emits a steady, high pitched bell tone.
Entry delay	Emits an intermittent beep tone during entry delay periods.
Exit delay	Emits an intermittent beep tone during exit delay.
Invalid button buzz	Emits a flat buzz tone.
Keypress	Emits a muted beep tone.
Trouble	Emits a two-tone warble until you enter a programmed passcode.
Watch point fault	Emits a single clean tweedle tone.

7 | Supervision

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

8 | Showing the firmware version

1. To remove power to the keypad, remove it from the base.
2. Return the keypad to the base to restore power.

The keypad shows the model number, keypad address, and firmware version for 10 seconds.

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

9 | Keypad cleaning

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

10 | Certifications

Region	Certification
US	UL 365 - Police Station Connected Burglar Alarm Units and Systems
	UL 609 - Local Burglar 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
CA	Canada CAN/ULC S303 - Local Burglar Alarm Units and Systems
	CAN/ULC S304 - Signal Receiving Centre and Premise Alarm 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

11 | Specifications

Dimensions	6.2 in x 4.7 in x 1 in (158 mm x 120 mm x 26 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	12 AWG to 22 AWG (2 mm to 65 mm)
SDI2 wiring	Maximum distance - wire size (unshielded wire only): 1000 ft (305 m) - 22 AWG (0.65 mm)
Compatibility	B9512G/B9512G-E B8512G/B8512G-E B6512/B5512/B4512/B3512 D9412GV4 version 2.0 and higher D7412GV4 version 2.0 and higher (Refer to the control panel installation document for number of supported devices.)

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

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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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WPP

Two-line Alphanumeric Keypad

B920

BOSCH

en Installation Guide

Bosch Security Systems, B.V
Torenallee 49
5617 BA Eindhoven
Netherlands
www.boschsecurity.com

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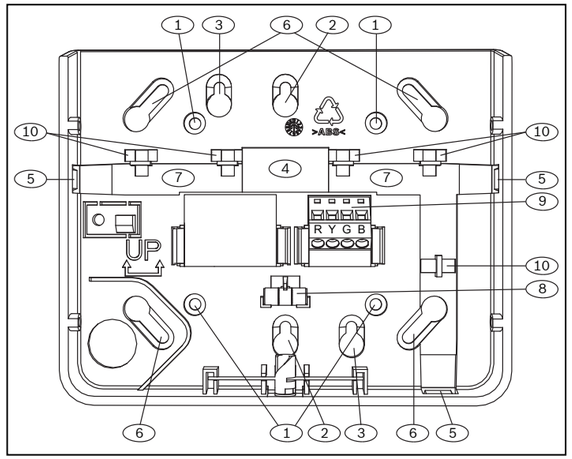
1 | Overview

This keypad is SDI2 compatible. Multiple keypads can be connected to the control panel by wiring them in parallel.



Callout – Description
1 – Wall mount holes
2 – Single gang box holes
3 – Double gang box holes
4 – Wire opening
5 – Surface mount wire openings
6 – Gang box holes (3-4 in)
7 – Surface mount wire channel
8 – Bubble level
9 – SDI2 wiring terminal block
10 – Wire tie posts

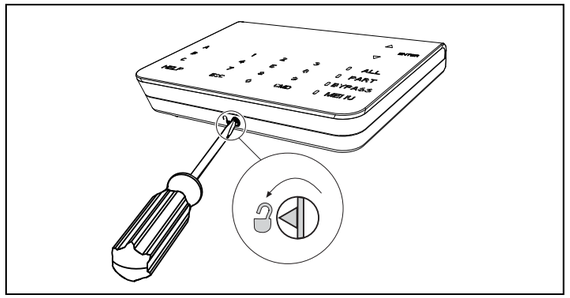
2 | SDI2 address switches

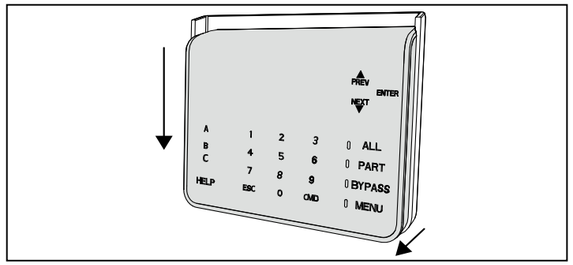
Two switches determine the address for the keypad. The control panel uses the address for communications. To set the switches, use a slotted screwdriver.

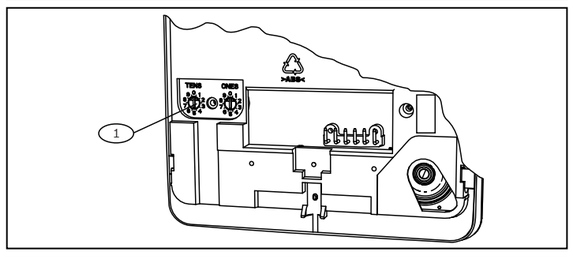
2.1 | Access the address switches

1. Use a slotted screwdriver. Turn the lock counter-clockwise.
2. Push down on the keypad to remove it from the base.
3. Find the switches on the back of the keypad.

Refer to the following illustrations.



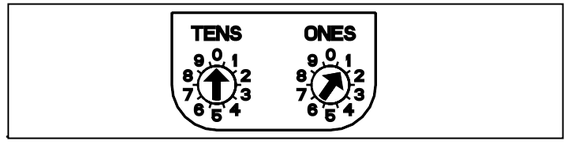




Callout – Description
1 – Address switches

2.2 | Setting the address switches

Set the address switches per the control panel configuration. If multiple SDI2 keypads reside on the same system, each SDI2 keypad must have a unique address. For single-digit addresses 1 through 9, set the tens switch to 0. The following illustration shows the address switch setting for address 1.



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.

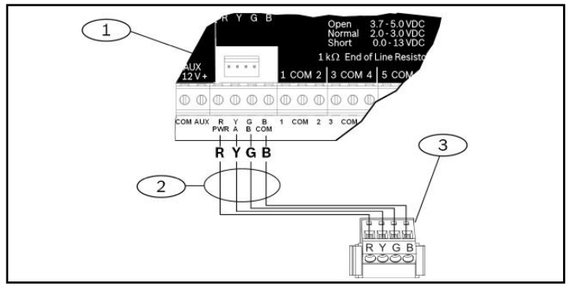
3.1 | Installing the keypad

You can surface install the keypad, or install it to standard electrical boxes, including single gang boxes.

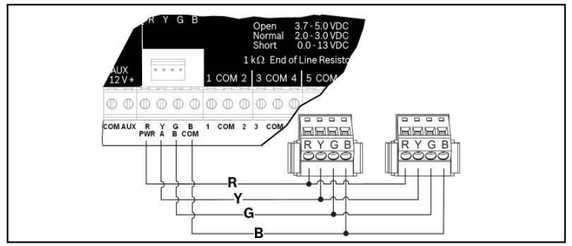
1. Use the base as a template to mark surface.
2. Pull the wiring through the opening in the base.
3. Use the mounting hardware to attach.

3.2 | Attaching to the control panel

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.



Callout – Description
1 – Control panel
2 – Terminal wiring
3 – Keypad's wiring terminal block



Reconnect the keypad to the base by sliding the keypad onto the base (reverse of *Step 2*). Apply power to the system.

4 | Display

Adjusting brightness:

1. Push [MENU] to open.
2. Push [NEXT] to go to the Press 5 for Settings Menu option, or press [5].
3. Push [NEXT] to go to the Press 4 for Keypad Config option, or press [4].
4. Push [1] to adjust the brightness.
5. Push [PREV] or [NEXT] to adjust the brightness. The changes apply immediately.
6. Push [ESC] to exit.

Adjusting nightlight (for control panels with version 2.01 or higher):

1. Push [MENU] to open.
2. Push [NEXT] to go to the Press 5 for Settings Menu option, or press [5].
3. Push [NEXT] to go to the Press 4 for Keypad Config option, or press [4].
4. Push [NEXT] to go to the Press 4 for Nightlight option, or press [4].
5. Push [PREV] or [NEXT] to toggle between Yes and No.
6. Push [ENTER] while viewing the option to save the programming.
7. Push [ESC] to exit.