

1 | Overview

The B915 and B915I keypads are SDI2 bus devices. The keypads connect to the bus using terminal wiring. You can connect more than one keypad to the control panel by wiring them in parallel.

You can program, diagnose, and troubleshoot the system from the control panel keypad, as well as remotely through Remote Programming Software (RPS).

The B915 function keys are labeled in English. The B915I function keys are labeled with icons.

The keypad display shows two-line system messages. Users can adjust the keypad display brightness level, and they can turn the keypad's nightlight feature on or off. Users can adjust keypad volume, and they can turn the key tone (short tone emitted when a key is pressed) on or off.

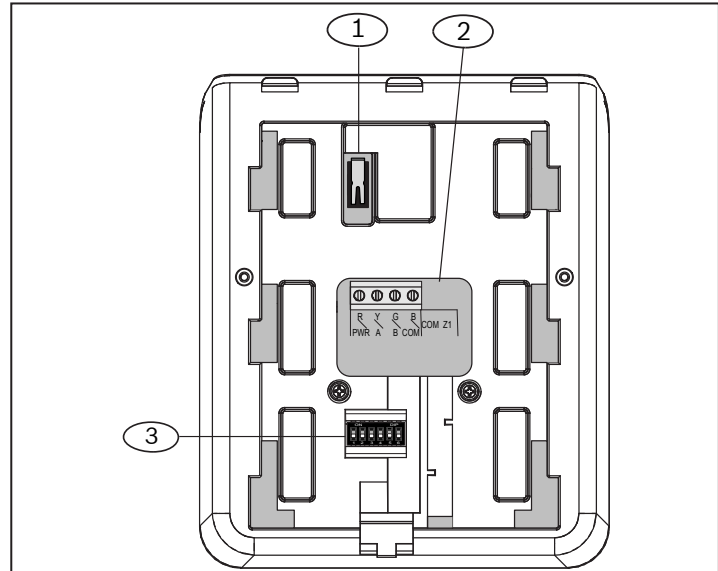


Figure 1.1: Keypad base overview

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

2 | SDI2 address switches

Address switches determine 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

- Removing the mounting plate from the back of the keypad:
- To release the retention clip, insert a slotted screwdriver under it. Do not pry upwards. Refer to *Figure 2.1*.
 - To unhook the mounting plate from the keypad, use your other hand and slide the mounting plate toward the bottom of the keypad. Refer to *Figure 2.1*.
 - Remove the mounting plate.

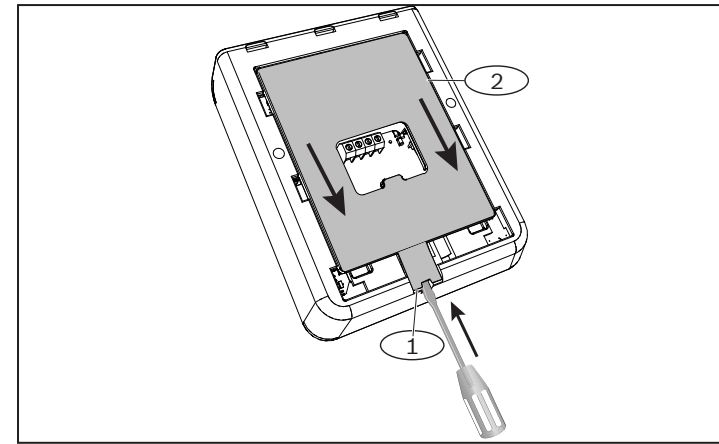


Figure 2.1: Removing mounting plate from keypad

Callout – Description
1 – Retention clip
2 – Mounting plate

2.2 | Setting the keypad address

The keypads have 6 DIP switches that support SDI2 addresses 00 to 32. To set the keypad addresses (per the control panel configuration), use the DIP switches. If multiple SDI2 keypads reside on the same system, each SDI2 keypad must have a unique address. *Figure 2.2* shows the address switch setting for address 01. Refer to *Table 2.1* for keypad address settings for address 00 to 32.

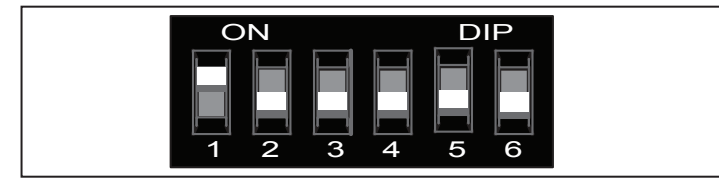


Figure 2.2: Address switches

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									

Table 2.1: Address switch settings

3 | Installing

After you set the address switches for the proper address, follow the steps below to install the keypad.

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 | Mounting the mounting plate

- Mounting the mounting plate on the wall:
- To mark the wall for mounting screw locations, a wire opening, and a level line, use the mounting plate as a template.
 - To mount the mounting plate to the wall, use the included mounting hardware.
 - Pull the wiring through the wire opening.

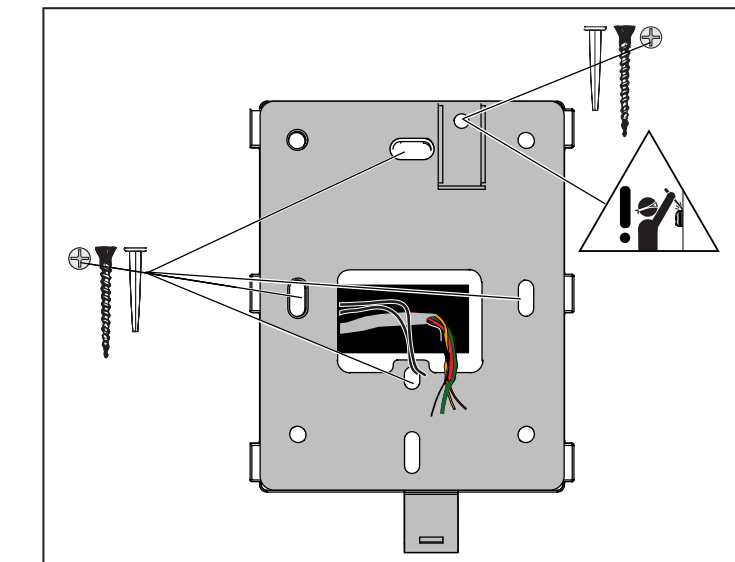


Figure 3.1: Mounting the mounting plate

3.2 | Installing the tamper screw

To provide tamper protection from prying the keypad from the wall, optionally install a screw into the tamper location. Refer to *Figure 3.1*.

3.3 | Wiring the keypad

Connect the wiring to the keypad terminals labeled R, Y, G, B before you mount the keypad on the mounting pad. Refer to *Figure 3.2*.

3.4 | Wiring to the control panel

When you wire the keypad to a control panel, use the control panel terminals labeled R, Y, G, B (PWR, A, B, COM). Refer to *Figure 3.2*.

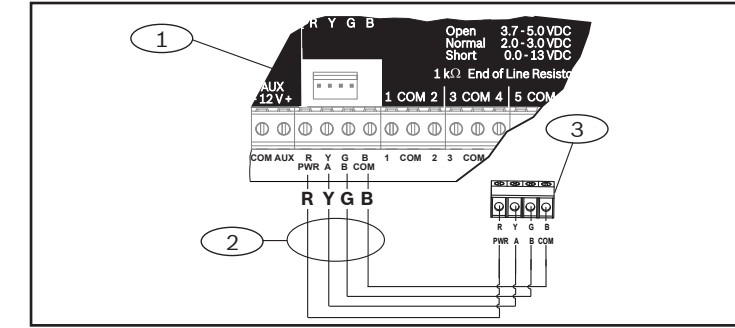


Figure 3.2: Wiring the keypad to the SDI2 bus connection (B5512 control panel shown)

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

You can connect keypads to the SDI2 data bus by parallel wire run from the control panel to each keypad, wire from keypad to keypad, or a combination of the two techniques. Refer to *Figure 3.3*.

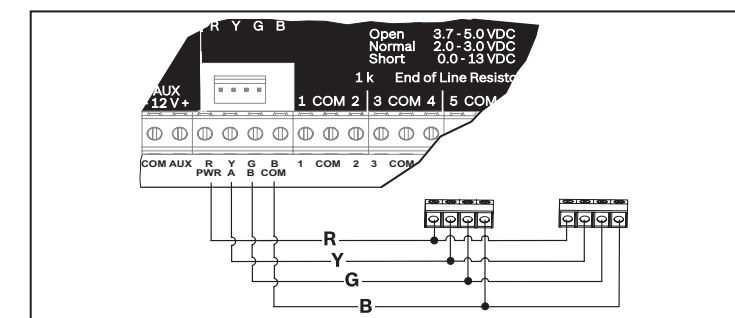


Figure 3.3: Installing multiple keypads using the SDI2 terminals

3.5 | Mounting the keypad

After wiring the keypad, mount it onto the mounting plate by seating the mounting hook openings over the mounting hooks, and then sliding the keypad down. Apply power to the system and test for proper operation.

4 | Status indicators

You can diagnose and troubleshoot the system using the keypad's status indicators. Refer to *Table 4.1*.





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

Table 4.1: Keypad status indicators

5 | Audible tones

The keypad has a built-in sounder that produces several distinct warning tones. Refer to *Table 5.1*. The keypad backlight illuminates when it emits an audible tone.

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.

Table 5.1: Keypad audible tones

6 | Supervision

The control panel supervises all keypads on the SDI2 bus. If a supervised keypad fails to respond to the control panel, the control panel declares a Missing Keypad Trouble. When the control panel can again communicate with the keypad, it restores the Missing Keypad Trouble. During a Missing Keypad Trouble, any connected keypad that maintained contact with the control panel shows the Missing Keypad Trouble as its idle text and shows the missing keypad's address. The communicating keypads also sound a trouble tone. Users can silence the trouble tone. If no other troubles exist, the tone silences when the missing keypad restores.

7 | Showing the firmware version

To show the keypad firmware version, remove and then restore power. The keypad shows the model number, keypad address, and firmware version for 10 seconds. You can momentarily remove power at the keypad (or at the control panel) by disconnecting and then reconnecting the wire from the "R" terminal.



NOTICE!

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

8 | Keypad cleaning

To clean your keypad, use a soft cloth or a non-abrasive cleaning solution (for example, a microfiber cloth and eyeglass cleaner). Spray the cleaner onto the cloth. Do not spray cleaners directly onto 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

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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



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