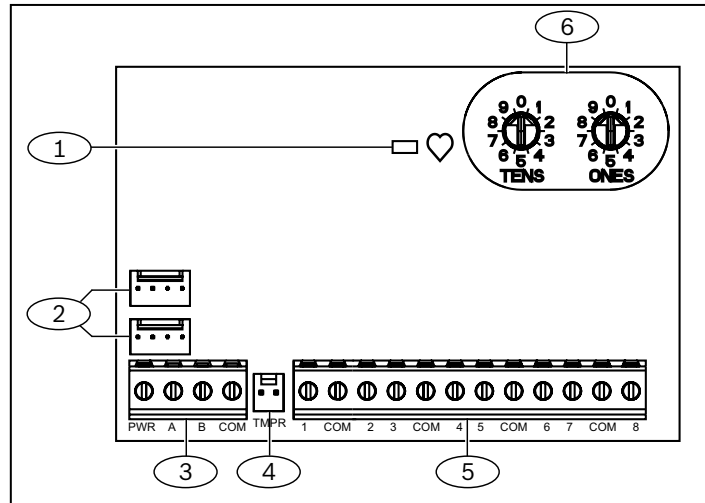


1 | Overview

This module is an 8 point supervised expansion device that connects to control panels through the SDI2 bus.



Callout – Description

- 1 – Heartbeat LED
- 2 – SDI2 interconnect wiring connectors
- 3 – SDI2 terminal strip
- 4 – Tamper switch connector
- 5 – Terminal connector
- 6 – Address switches

2 | SDI2 address settings

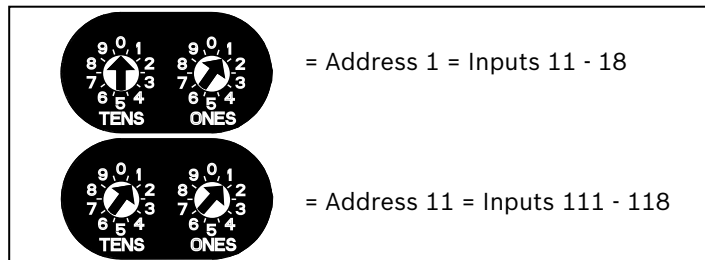


NOTICE!

The module reads the switch setting only during power up. Cycle the power to the module to enable the new setting.

Set the switches per the control panel configuration. Each B208 module must have a unique address.

For single-digit address numbers 1 through 9, set the tens switch to 0 and the ones digit to the appropriate number. The following illustration shows the address switches setting for addresses 1 and 11.



2.1 | Valid addresses and input numbers per control panel

Control panel	Valid B208 addresses	Corresponding point numbers
B9512G	01 - 59	11 - 18, 21 - 28, 31 - 38, 41 - 48, 51 - 58, 61 - 68, 71 - 78, 81 - 88, 91 - 98, 101 - 108, 111 - 118, 121 - 128, 131 - 138, 141 - 148, 151 - 158, 161 - 168, 171 - 178, 181 - 188, 191 - 198, 201 - 208, 211 - 218, 221 - 228, 231 - 238, 241 - 248, 251 - 258, 261 - 268, 271 - 278, 281 - 288, 291 - 298, 301 - 308, 311 - 318, 321 - 328, 331 - 338, 341 - 348, 351 - 358, 361 - 368, 371 - 378, 381 - 388, 391 - 398, 401 - 408, 411 - 418, 421 - 428, 431 - 438, 441 - 448, 451 - 458, 461 - 468, 471 - 478, 481 - 488, 491 - 498, 501 - 508, 511 - 518, 521 - 528, 531 - 538, 541 - 548, 551 - 558, 561 - 568, 571 - 578, 581 - 588, 591 - 598
B8512G	01 - 09	11 - 18, 21 - 28, 31 - 38, 41 - 48, 51 - 58, 61 - 68, 71 - 78, 81 - 88, 91 - 98
B6512	01 - 09	11 - 18, 21 - 28, 31 - 38, 41 - 48, 51 - 58, 61 - 68, 71 - 78, 81 - 88, 91 - 96
B5512	01 - 04	11 - 18, 21 - 28, 31 - 38, 41 - 48
B4512	01 - 02	11 - 18, 21 - 28
D9412GV4	01 - 24	11 - 18, 21 - 28, 31 - 38, 41 - 48, 51 - 58, 61 - 68, 71 - 78, 81 - 88, 91 - 98, 101 - 108, 111 - 118, 121 - 127, 131 - 138, 141 - 148, 151 - 158, 161 - 168, 171 - 178, 181 - 188, 191 - 198, 201 - 208, 211 - 218, 221 - 228, 231 - 238, 241 - 247
D7412GV4	01 - 07	11 - 18, 21 - 28, 31 - 38, 41 - 48, 51 - 58, 61 - 68, 71 - 75
D7212GV4	01 - 03	11 - 18, 21 - 28, 31 - 38

To calculate the point numbers for each address, multiply the address number by 10 for the base number, and then use numbers 1 through 8 in the ones place for the point numbers. For examples, refer to Section 5.

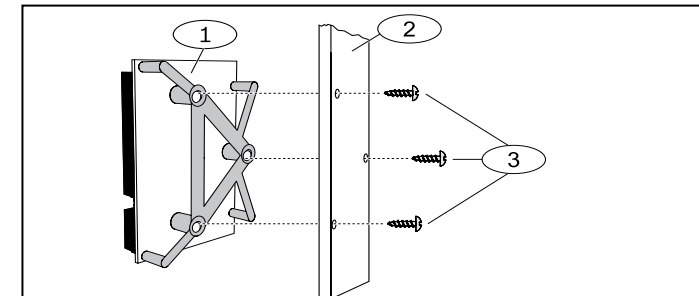
3 | Installation



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 | Install the module in the enclosure



Callout – Description

- 1 – Module with mounting bracket installed
- 2 – Enclosure
- 3 – Mounting screws (3)

3.2 | Install and wire the tamper switch

- Put the ICP-EZTS Tamper Switch (P/N: F01U009269) into the enclosure's tamper switch mounting location. For complete instructions, refer to *EZTS Cover and Wall Tamper Switch Installation Guide* (P/N: F01U003734).
- Connect the wiring onto the module's tamper switch connector.

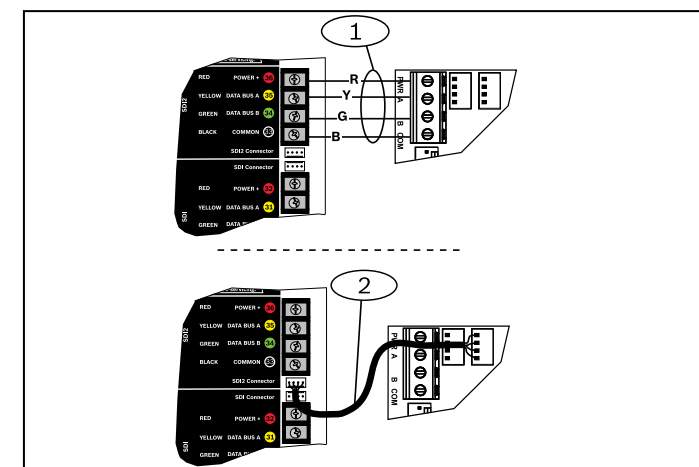
3.3 | Attach to the control panel

Use either the module's terminal strip labeled with PWR, A, B, and COM, or the module's interconnect wiring connectors (wire included) to attach to the control panel. Interconnect wiring parallels the PWR, A, B, and COM terminals on the terminal strip. Refer to the following illustrations for wiring.



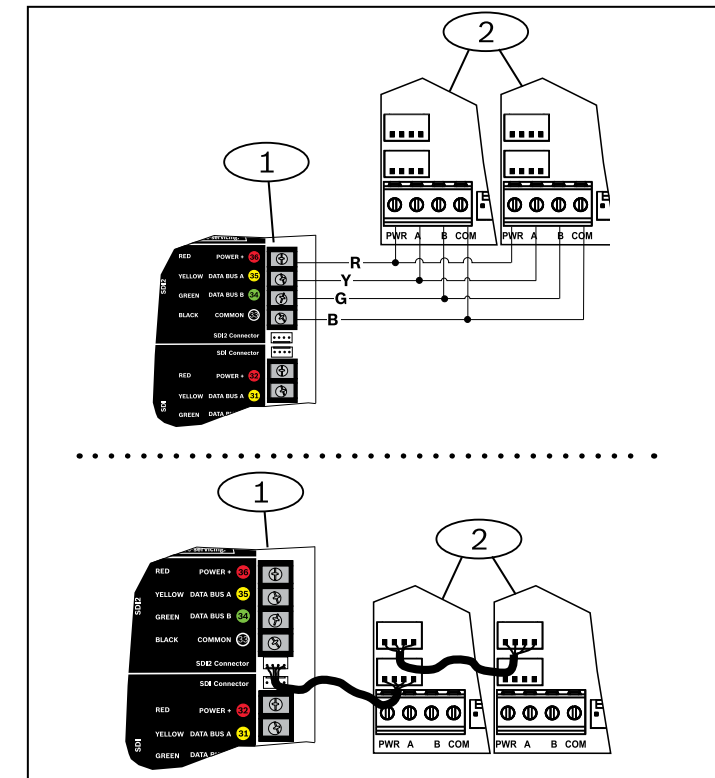
NOTICE!

Use the terminal strip wiring **or** interconnect wiring connector to the control panel. Do not use both. When connecting multiple modules, combine terminal strip and interconnect wiring connectors in series.



Callout – Description

- 1 – Terminal strip wiring (SDI2)
- 2 – Interconnect cable

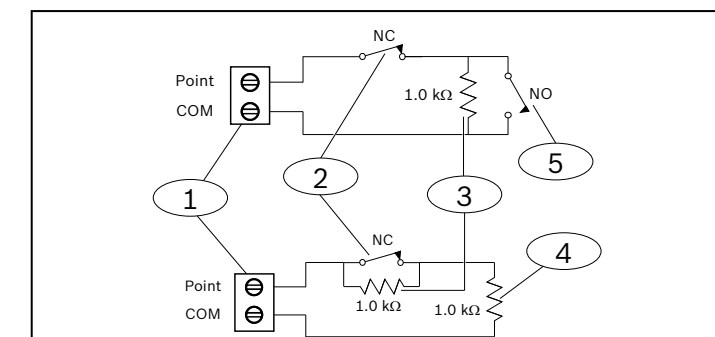


Callout – Description

- 1 – Bosch control panel
- 2 – B208 modules

3.4 | Sensor loop wiring

Wire resistance on each sensor loop must be less than 100 Ω with the detection devices connected. The terminal strip supports 12 to 22 AWG (0.65 to 2 mm) wires. The B208 detects open, short, normal, and ground fault circuit conditions on its sensor loops and transmits the conditions to the control panel. Each sensor loop is assigned a point number and transmits to the control panel individually. Run wires away from the premises telephone and AC wiring. For the 1 k Ω dual EOL resistor circuit style order ICP-1K22AWG-10, a package of 10 1.0 k Ω EOL resistors.



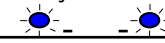
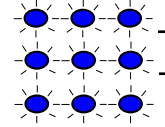


Callout – Description

- 1 – Point sensor loop terminals
- 2 – Normally closed device (contact)
- 3 – 1 k Ω resistor at device
- 4 – 1 k Ω resistor at end-of-line (EOL)
- 5 – Normally open device (contact)

Dual EOL requires B208 firmware v1.05.001 or higher. Dual EOL meets the requirement of double protection for medium to high risk ULC installations.

4 | LED descriptions

The module includes one heartbeat LED to indicate that the module has power and to indicate the module's current state. Refer to *Table 4.1*.

Flash Pattern	Function
Flashes once every 1 sec 	Normal operation state.
3 quick flashes every 1 sec 	Communication error state: Indicates an SDI2 communication error.
ON Steady 	LED trouble state: Not powered (for OFF Steady only), or some other trouble condition prohibits the module from controlling the heartbeat LED.
OFF Steady 	

5 | Point number examples

For B208 address **01** the point numbers for the input devices are 11 through 18:

Terminal no	1	2	3	4	5	6	7	8
Input no	11	12	13	14	15	16	17	18

For B208 address **11** the point numbers for the input devices are 111 through 118:

Terminal no	1	2	3	4	5	6	7	8
Input no	111	112	113	114	115	116	117	118

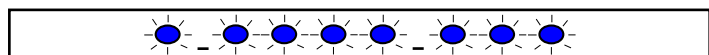
6 | Show the firmware version

With a tamper switch:

1. Open the enclosure door.
2. Push and release the switch

Without a tamper switch:

1. Quickly short the tamper pins.
2. Refer to the illustration below.



When the tamper switch is on, the heartbeat LED stays OFF for 3 seconds before showing the firmware version. The LED flashes the major, minor, and micro digits of the firmware version, with a 1 second pause after each digit.

For example, the version 1.4.3 shows as LED flashes: [3 second pause] * _****_*** [3 second pause, then normal operation].

7 | Certifications

Region	
USA	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 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
	CSFM - California Office of The State Fire Marshall
	FCC Part 15 Class B
	FDNY - Fire Department of New York
FM 3010 - Fire Alarm Signaling Systems	
Canada	CAN/ULC S303 - Local Burglar Alarm Units and Systems
	CAN/ULC S304 - Signal Receiving Centre and Premise
	ICES-003 - Information Technology Equipment (ITE)
	ULC-ORD C1023 - Household Burglar Alarm System Units
	ULC-ORD C1076 - Proprietary Burglar Alarm Units and System

8 | Specifications

Dimensions	2.5 in x 3.8 in x 0.60 in (63.75 mm x 96 mm x 15.25 mm)
Voltage (operating)	12 V nominal
Current (maximum)	35 mA
Operating temperature	+32°F to +122°F (0°C to +50°C)
Relative humidity	5% to 93% at +90°F (+32°C) non-condensing
Loop inputs	Up to eight inputs. Input contacts may be Normally Open (NO) or Normally Closed (NC). NOTICE! Normally Closed (NC) is not permitted in Fire installations.

Loop End-of-Line (EOL) resistance	1 kΩ, 2 kΩ, No EOL (Dual 1 kΩ + 1 kΩ)
Loop wiring resistance	100 Ω maximum
Loop states (Single EOL resistor circuit style)	Short: 0 - 1.1 VDC Normal: 1.25 - 1.9 VDC Open: 2.25 - 5 VDC
Terminal wire size	12 AWG to 22 AWG (2 mm to 0.65 mm)
SDI2 wiring	Maximum distance - Wire size (Unshielded wire only): 1000 ft (305 m) - 22 AWG (0.65 mm) 1000 ft (305 m) - 18 AWG (1.02 mm)
Compatibility	B9512G/B9512G-E B8512G/B8512G-E B6512 B5512/B5512E B4512/B4512E D9412GV4 D7412GV4 D7212GV4 (Refer to the control panel installation document for number of supported devices.)

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HU-hu: A honosított dokumentációt lásd a <https://hu.boschsecurity.com/hu/oldalok>.

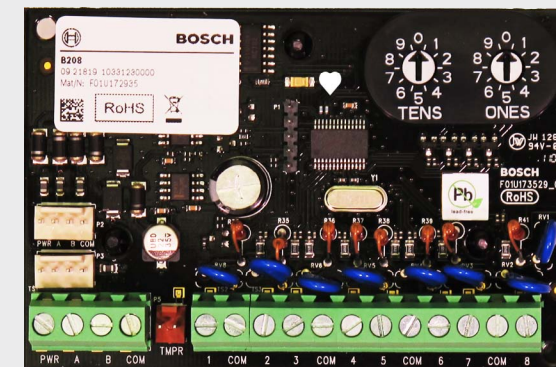
IT-it: Andare a <https://it.boschsecurity.com/it/> per la documentazione in questa lingua.

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Octo-input Module B208



en Installation Guide

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