

1 | Overview

The B201 2-wire Powered Loop Module provides a single powered initiating device circuit. The module supports 12 V compatible 2-wire smoke detectors. The B201 also supports connecting burg devices to the control panel.

The module connects to the control panel on-board inputs (using points 7 and 8 is recommended). Terminals A and COM are a direct connection (pass-thru) to point 7, and terminals B and PWR are a powered loop through point 8.

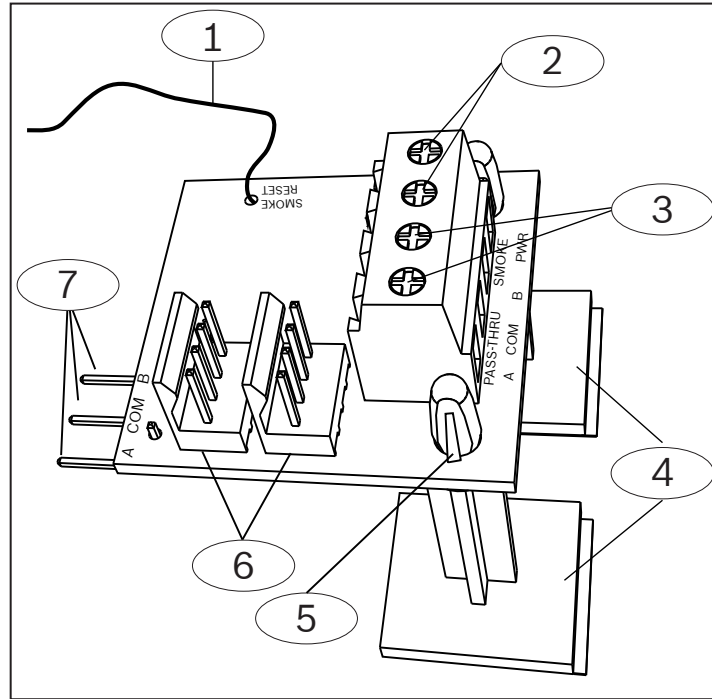


Figure 1.1: Module overview (with standoffs installed)

Callout – Description

1 – Smoke reset wire
2 – Wiring terminals (to smoke detector, burg device, or D132A)
3 – Non-powered terminals, direct pass-thru of point 7
4 – Standoffs with adhesive pads (shown installed)
5 – Standoff lock (positioned fully on top of the module board when properly installed)
6 – Interconnect wiring connectors (to control panel or other modules)
7 – Connection pins (to control panel terminal block)

2 | Installation

The module installs using the connection pins. The standoffs with adhesive pads (included) help secure the module in the enclosure.



CAUTION!

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 standoffs

Remove the supplied standoffs from packaging and gently insert the locking end of the standoffs through the holes as shown in *Figure 1.1*. Press the standoffs into the board until they security lock in place.

2.2 | Connect the module

Use the connection pins to connect the module to the desired inputs on the control panel (inputs 7 and 8 recommended).

1. Remove the backing from the standoffs to reveal the adhesive.
2. Align the module connection pins to the desired inputs. Refer to *Figure 2.1*.
3. Slide the module so that the connection pins are fully inserted. Refer to *Figure 2.2*.
4. Gently apply pressure to the standoffs to secure the adhesive to the enclosure.

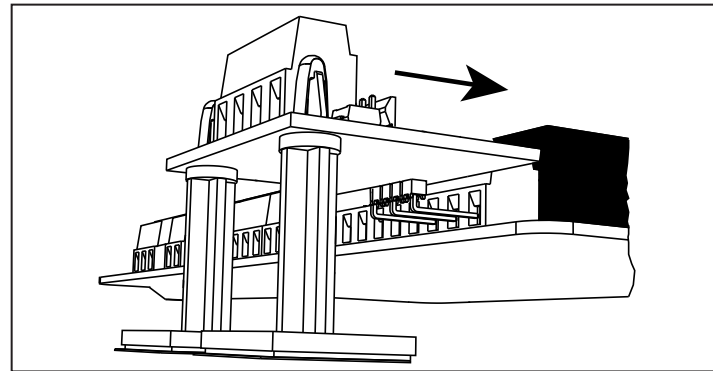


Figure 2.1: Installing the module

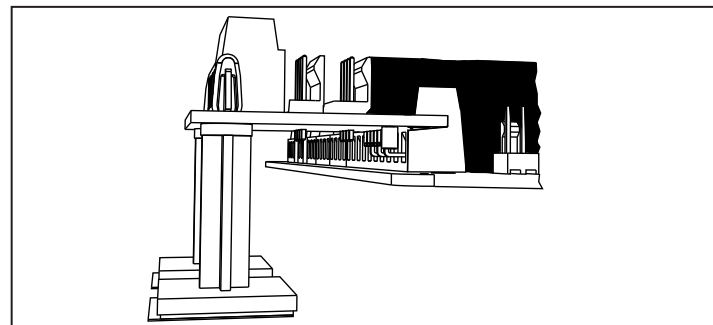


Figure 2.2: Module installed on the control panel

2.3 | Wire to the control panel and a 2-wire smoke detector

Complete a standard installation by wiring the module. Use the supplied interconnect cable to wire to the control panel. Interconnect wiring parallels the PWR, A, B, and COM terminals on the terminal strip. Refer to *Figure 2.3*.

1. Connect the smoke reset wire to OUTPUT B or C on the control panel. By default, OUTPUT C is programmed for Reset Sensors.
2. For power, connect the interconnect cable (included) from the module interconnect connector to the control panel interconnect connector.
3. Connect a 1 k Ω EOL resistor (supplied with the control panel) to A and COM, and connect the detector to B and PWR. Use a 1.8 k Ω resistor.

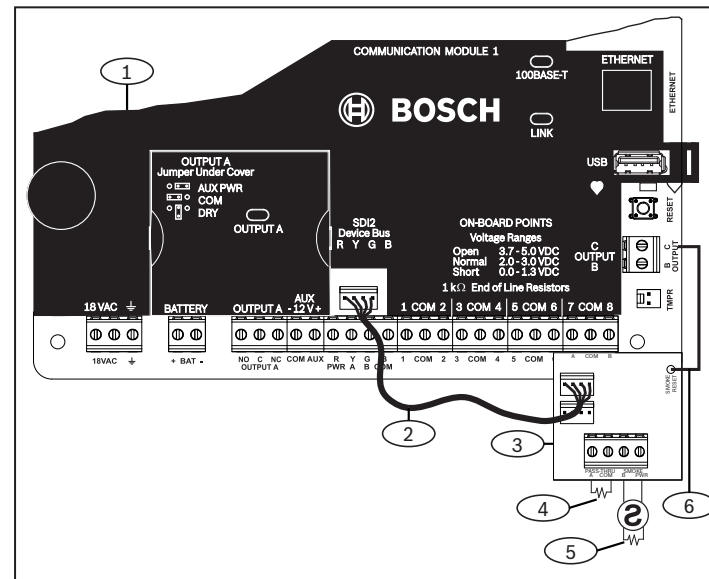


Figure 2.3: Wiring to the control panel and smoke detector (B5512 shown)

Callout – Description

1 – Control panel
2 – Interconnect wiring
3 – Module
4 – 1 k Ω EOL resistor (P/N: F01U026703)
5 – 1.8 k Ω EOL resistor (P/N: F01U009011)
6 – Smoke reset wire



NOTICE!

When connecting multiple SDI2 modules, you can use the unused interconnect connector to wire modules in series.

2.4 | Wire with a D132A

For installations requiring a D132A, refer to *Figure 2.4*.

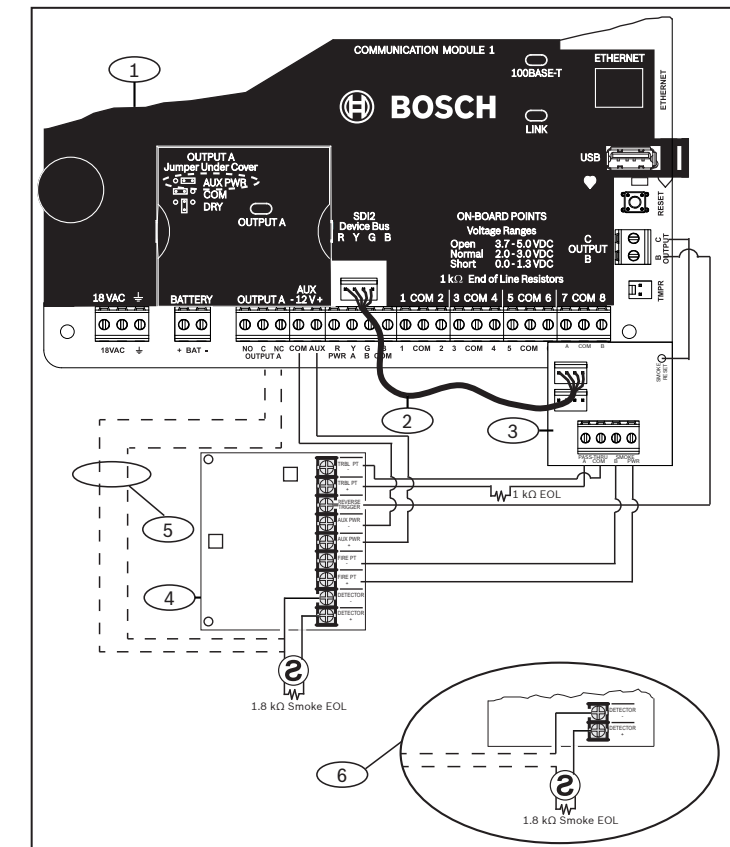


Figure 2.3: Wiring with a D132A (B5512 shown)

Callout – Description

1 – Control panel
2 – Interconnect wiring
3 – B201
4 – D132A
5 – Wiring for Pulsing or Temporal Code 3 (optional)
6 – Proper wiring from the D132A to the 2-wire smoke when configured with optional wiring (callout 5)

3 | Supervision

The powered loop uses a 1.8 k Ω EOL for loop supervision. The EOL also supervises the module because removal puts the point into trouble.

4 | Compatible detectors

Manufacturer	CTN	Detector identifier	Base	Base identifier	Detectors/ points
Bosch/ Radionics	D263/D263TH	B	N/A	N/A	20
	D263THS*/D263THC	B	N/A	N/A	20
	D285/D285TH	A or B	D287/D288	A	20
	D286	A or B	D287/D288	A	20
	D603/D604/D605	A or B	D287/D288	A	20
Detection Systems	DS230/DS230F/DS233F	A or B	MB2W or MB2WL	A	20
	DS250/DS250TH	A or B	MB2W or MB2WL	A	20
	DS260	A or B	MB2W or MB2WL	A	20
	DS282/DS282TH	B	N/A	N/A	20
	DS282THS/DS282THC	B	N/A	N/A	20
Bosch	F220-P/F220-PTH/F220-PTHC	A	F220-B6	A	20
	F220-135/F220-135F/F220-190F	A	F220-B6	A	20
ESL/UTC	429C	S10A	N/A	N/A	20
	429CRT	S11A	N/A	N/A	20
	429CST*	S11A	N/A	N/A	20
	429CT	S10A	N/A	N/A	20
	511C	S10A	N/A	N/A	20
	711U/711UT	S10A	701 E, 701 U, 702E, 702U	S00	20
	713-5U	S10A	701 E, 701 U, 702E, 702U	S00	20
	721 UT	S10A	702E, 702U	S00	20
System Sensor	2W-B, 2WT-B	A	N/A	N/A	20
	2WTA-B	A	N/A	N/A	20
	5151	A	B110LP, B110RLP, B401	A	20

* Compatible with the D132A Smoke Detector Reversing Relay Module.

5 | Configuration and test

Use Remote Programming Software (RPS) to program the control panel to use the module and connected points.

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

After module installation and any control panel programming, perform a complete system test. A complete system test includes testing the control panel, all devices, and communication paths for proper operation.

Copyright

This document is the intellectual property of Bosch Security Systems, Inc. and is protected by copyright. All rights reserved.

Trademarks

All hardware and software product names used in this document are likely to be registered trademarks and must be treated accordingly.

Bosch Security Systems, Inc. product manufacturing dates

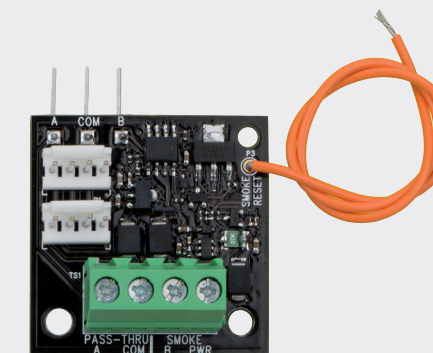
Use the serial number located on the product label and refer to the Bosch Security Systems, Inc. website at <http://www.boschsecurity.com/datecodes/>.

6 | Certifications

Region	
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 System
	UL 985 - Household Fire Warning System Units
	UL 1076 - Proprietary Burglar Alarm Units and Systems
	UL 1023 - Household Burglar-Alarm System Units
	UL 1610 - Central-Station Burglar-Alarm Units
	FCC Part 15 Class B
Canada	CAN/ULC-S304 Central and Monitoring Station Burglar Alarm Units
	CAN/ULC S545 Residential Fire Warning System Control Units
	ULC/ORD-C1023 Household Burglar Alarm System Units
	CAN/ULC-S303 Local Burglar Alarm Units and Systems
	ULC/ORD-C1076 Proprietary Burglar Alarm Units and Systems

7 | Specifications

Dimensions	1.42 in x 1.42 in x 1.48 in (36 mm x 36 mm x 37.6 mm)
Voltage (input)	12 VDC nominal
Current	18 mA in standby mode 35 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
2-wire smoke loop thresholds	- Alarm: >13.5 mA - Supervised + detectors: 5 mA – 10.5 mA - Trouble: < 4 mA
2-wire smoke loop wiring	50 Ω 0.65 mm (22 AWG) – 1500 ft (457 m) 1.02 mm (18 AWG) – 3900 ft (1188 m)
Compatibility	B5512/B5512E v2.01 or higher B4512/B4512E v2.01 or higher B3512/B3512E v2.01 or higher



2-wire Powered Loop Module B201



en Installation Guide

Bosch Security Systems, Inc.
130 Perinton Parkway
Fairport, NY 14450
USA
www.boschsecurity.com

