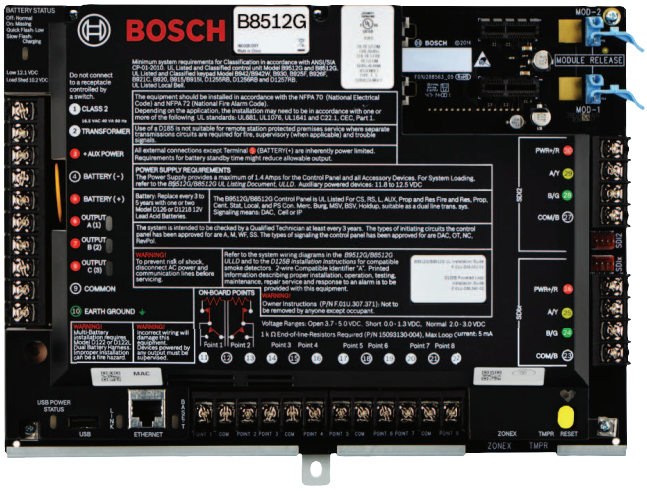
# B8512G IP control panel, 8 areas, 99 points

G Series




- Fully integrated intrusion, fire, and access control allows users to interface with one system instead of three
- Provides up to 99 points using a combination of hardwired or wireless devices for installation flexibility, and up to 8 areas and 8 doors for up to 500 users
- On-board Ethernet port for Conettix IP alarm communication and remote programming, compatible with modern IP networks including IPv6/IPv4, Auto-IP, and Universal Plug and Play
- Installer-friendly features for simple installation and communications, including plug-in PSTN and cellular communication modules

The B9512G Control Panel and the B8512G Control Panel are the new premier commercial control panels from Bosch. B8512G control panels integrate intrusion, fire, and access control providing one simple user interface for all systems.
With the ability to adapt to large and small applications, the B8512G provides up to 99 individually identified points that can be split into 8 areas.
The control panel communicates via the built-in Ethernet port or via compatible plug-in modules that can send events over the public switched telephone network (PSTN) or over cellular network communications.
For users, programmable keypad shortcuts, situation sensitive on-screen help, and a bilingual user interface make system operation simple and easy.
With the B8512G, you can:

- Monitor alarm points for intruder, gas, or fire alarms.
- Program all system functions local or remote using Remote Programming Software (RPS) or by using basic programming through the keypad.
- Add up to 8 doors of access control using the optional B901 Access Control Module.

The B8512G is a direct replacement for previous control panel models D7412GV4, D7412GV3, D7412GV2, and D7412G.

## Functions

### Programmable outputs

- Four alarm-output patterns
- Programmable bell test

### Output Profiles

Output Profiles support custom programming and provide a way for outputs to operate based on unique application requirements.
Once an Output Profile is created, it can be reused and assigned to multiple outputs enabling quick output programming.
You can create Output Profiles that define how an output operates when specific events occur. Output Profiles provide a way to assign and use consistent output effects throughout the system.

### Point response

- 63 point profiles
- Selectable point response time
- Selectable EOL values and configuration
- Cross point capability
- Fire alarm verification
- Dangerous gas indicator includes carbon monoxide
- Watch mode
- Selectable point response time

### User interface

- Supervision of up to 16 keypads

- Custom keypad text is fully programmable through RPS
- Full function menu including customizable shortcuts
- Authority by area and 32 character name for each user
- 14 custom authority levels to restrict system features that each user can access
- Programmable primary and secondary language by user and keypad
- 12 available languages (any two can be concurrently used)

**User interface languages**
The following table shows the available languages per keypad type.

| | B915/ B915I | B920/ B925F/ B926F / B926M | B921C | B930 | B940W/ B942/ B942W |
|---|---|---|---|---|---|
| English | ✔ | ✔ | ✔ | ✔ | ✔ |
| Chinese | ✔ | | | | ✔ |
| Dutch | ✔ | ✔ | ✔ | ✔ | ✔ |
| French | ✔ | ✔ | ✔ | ✔ | ✔ |
| German | ✔ | ✔ | ✔ | ✔ | ✔ |
| Greek | ✔ | | | | ✔ |
| Hungarian | ✔ | ✔ | ✔ | ✔ | ✔ |
| Italian | ✔ | ✔ | ✔ | ✔ | ✔ |
| Polish | ✔ | | | | ✔ |
| Portuguese | ✔ | ✔ | ✔ | ✔ | ✔ |
| Spanish | ✔ | ✔ | ✔ | ✔ | ✔ |
| Swedish | ✔ | ✔ | ✔ | ✔ | ✔ |

**Area configurations**
Link multiple areas to a shared area such as a lobby or common entryway. The shared area then automatically turns On (arms) when all associate areas are armed and turns Off (disarms) when any one associate area is disarmed. For higher security applications, the Area Re-Arm feature guarantees that areas are always rearmed, and are disarmed for no longer than a specific, configurable, amount of time (for example, service time).

**Custom functions**
For added convenience, the installer can program custom functions that allow customers to complete complex tasks with one simple action. For example, a custom function can bypass a group of points and arm the system, allowing the user to perform these functions with one easy command. Users can activate custom functions with a keypad, keyfob, token, or card, or the control panel can activate a function in reaction to a faulted point, or automatically through a scheduled event (SKED).

**Passcode security**
- Two-man rule. Requires two people with two unique passcodes to be present at the time of opening.
- Early ambush. Allows users to verify that the facility is safe by requiring two passcodes. The control panel sends a duress event if the user does not enter the passcode a second time after inspecting the premises.
- Dual authentication. Requires two forms of identification before processing certain system commands, including turning off the system and opening doors. A standard system user must have a passcode, a credential (token or card), and appropriate command authority permissions.

**Door control**
Using the B901 Access Control Module or D9210C Access Control Interface Module, the control panel provides a fully supervised access control solution. The solution offers 14 programmable levels of access authority. Authority for door access is controlled by the user level, the group of the user, the time of day, the door state, and the area armed (On/Off) state.

**Easy exit control**
The control panel changes from one On (armed) state to another without turning off (disarming) the system. For example, if you change the state from Part On (Perimeter Arm) to All On (Master Arm), the control panel complies and reports the change. Easy exit control reduces the number of keystrokes, simplifying system operation.

**Programmable passcode-controlled menu list**
Passcode-controlled shortcuts provide users only with the options and information pertinent to them, simplifying system operation.

**Flexible control**
The system provides the flexibility to choose added convenience or high security. For example, you can restrict to a keypad's immediate local area turning on (arming) and turning off (disarming) the system with a passcode, even if the user has access to other areas. This is particularly useful for high security areas, where a user may have access to the area, but would prefer to only turn off (disarm) the area individually rather than with the rest of the system.

**Monitor Delay/Delayed Response**
Create a special point profile that delays the reaction of a point for a specified time (up to 1 hour in minutes and seconds). This delay provides time for the specified condition to reset before activating any

annunciation. The system can annunciate locally and send a report, if desired. When the system is armed, the point can respond like a normal point - providing dual functionality. Use this feature to ensure that perimeter doors have not been propped open, or to monitor critical areas such as computer rooms and safes, for example.

**System users**
The system supports up to 500 users. Each user can have a personalized passcode, a wireless keyfob, and an access credential to control the system. You can assign passcodes to one of 14 customized authority levels in each area that can be restricted to operate only during certain times. You can program a primary and secondary language for each user and by keypad (select from English, Chinese, French, Greek, Hungarian, Italian, Polish, Portuguese, and Spanish). The keypad changes to the user's programmed language when the user enters his passcode or holds the Help key.

**Route groups and destinations**
The control panel can send reports to four different route groups using one primary and up to three backup destination devices for each route group.

**Reporting capabilities**
The control panel has flexible communications for most central station receivers with reporting capabilities such as:
- Individual point numbers
- Opening or closing reports by user and area number
- Remote programming attempts
- Diagnostic reports

**Destination test**
It is possible to send test reports to each and all destinations within each route group.

**Communication formats**
The control panel sends reports in these formats:
- Contact ID (PSTN)
- Modem4 (PSTN)
- Conettix Modem4
- Conettix ANSI-SIA Contact ID
- ANSI-SIA DC-09

**Notice**
**UL and ULC LISTED applications**
ANSI-SIA DC-09 format is not available for UL and ULC LISTED applications.

**IP communication**
The control panel can use IP to communicate with a CONETTIX B6800 Central Station Software Receiver, a CONETTIX D6600 or a CONETTIX D6100 IPv6 communications receiver/gateway. Use one of the following for IP:
- The on-board Ethernet connection
- Ethernet Communication Module: B426
- Plug-in cellular communicator: B444-G/B444-A/B444-V/B444-A2/B444-V2

Conettix IP communication provides a secure path that includes anti-replay/anti-substitution features, and enhanced security with up to AES 256-bit encryption (using Cipher Block Chaining (CBC)).
The control panel supports Domain Name System (DNS) for both remote programming and central station communication. DNS provides ease of use, eliminating the need to use static IP addresses as your reporting destination, and accommodates a simple solution for central station disaster recovery.
The control panel supports both IPv6 and IPv4 networks.

**Communication paths**
The control panel accommodates up to four separate phone and four separate network paths to the central station receiver. When resetting alarms or turning a system on and off, the user is identified by name and number.

**Personal notification**
The control panel can send text messages and emails for personal notification over Ethernet or using a cellular communicator. You can configure up to 32 destinations using a combination of cellular phone numbers and email addresses. The control panel sends notifications in the user's programmed primary language.

**Firmware updates**
Remote firmware updates are available. Alternatively, the firmware can be updated on-site using a USB stick containing the new panel firmware version.

**A wide variety of input options**
Each point:
- Single 1 kΩ, single 2 kΩ, dual 1 kΩ (1 kΩ + 1 kΩ), and No EOL (end-of-line) (EOL) resistor options (for on-board and B208 inputs)
- Programmable for Fire, Intrusion, Access, Gas, MNS, and Supervisory devices
- Supports hardwired and wireless devices
- Supports IP cameras by Bosch as point and output devices
- Can be defined as perimeter or interior to support Part On (Perimeter only) arming.

**IP camera support**
The control panel can integrate directly with Bosch IP cameras, using them as fully supervised points and outputs.
Integration of cameras allows the camera's video motion detection to activate points on the control panel. The IP Camera Point Source now includes two wired inputs of an IP camera. The control panel's virtual outputs (IP camera output source) can be configured to trigger camera actions, including sending video snapshots via email.

**Security and fire detection**
The control panel provides eight on-board points, and up to 91 additional off-board points (depending on model and expansion interfaces). You can program individual points to monitor some types of burglar alarms, fire alarms, and supervision devices.

**Event log**
The event log stores up to 2048 local and reported events. The event log includes time, date, event, area, point, and user. View the event log from a keypad or use RPS to remotely retrieve event information. When the event log reaches a programmed threshold of stored events, it can send an optional report to a receiver.

**Scheduled events (SKEDs)**
The internal clock and calendar start individually scheduled events (SKEDs). SKEDs perform several functions such as turn on or off, relay control, or point bypassing.
The control panel offers:
- 40 scheduled events with up to 31 different functions
- 8 opening windows and 8 closing windows
- 8 user group windows
- Day-of-week, date-of-month, or holiday only schedules
- 4 holiday schedules of 366 days (leap year)

**Dual bus**
The dual SDI2 device bus design provides greater installation flexibility, such as bus isolation for Intrusion and Fire.

**ZONEX and POPEX retrofits**
To retrofit legacy Bosch control panels that use ZONEX and POPEX devices, the control panel is compatible with the B600 Retrofit (ZONEX) Module. The B600 adds two ZONEX buses to the control panel which can connect to existing legacy point bus (POPEX) devices (for example, the D8125).

**Programming**
Installers can perform limited programming on-site with a keypad (critical parameters; such as account IDs, central station and RPS IP addresses and phone numbers, reporting formats, and more). They can also do full programming on-site or remotely (attended or unattended) with RPS. A programmable system passcode prevents unauthorized remote programming.
The following table shows the available languages for RPS

| | RPS programming | RPS custom text* |
|---|---|---|
| English | ✔ | ✔ |
| Dutch | | ✔ |
| French | | ✔ |
| German | | ✔ |
| Hungarian | | ✔ |
| Italian | | ✔ |
| Portuguese | | ✔ |
| Spanish | | ✔ |
| Swedish | | ✔ |

* RPS custom text is text, that can be entered in RPS and which will then be displayed on keypads and on the mobile app.

**Diagnostics**
Keypads and RPS offer diagnostic help for monitoring and troubleshooting. The diagnostics features allow you to view the status of the wired and wireless devices. The features provide the status of the control panel and its connected devices, such as firmware version, power, and missing conditions. View the status of each area.

**3rd Party Integrations**
The control panel provides options for integration with software applications and solutions. Depending on the application, options include a Bosch SDK, RPS-API, Bosch proprietary MODE 2 or OPC interface. The OPC interface enables key DA (Data Access) and AE (Alarms & Events) to integrate with the Bosch BIS solution or 3rd party OPC Classic systems.

**Bosch Video Management System integration**
With Bosch Video Management System (Bosch VMS) and an intrusion system, the VMS operator has a single user interface to monitor and control the intrusion system combined with video surveillance. With Bosch VMS and a control panel, the operator can, for example:
- View videos triggered by intrusion events, including all relevant information such as areas, point, and user show in the display with the event.
- View areas, points, outputs, and doors - with their statuses - on the Bosch VMS map, providing the exact location in the system.
- Turn on (arm) and turn off (disarm) areas.
- Bypass and unbypass points.
- Lock and unlock doors (Bosch VMS 6.0 and higher).

Requirements to integrate Bosch VMS with a control panel:
- A licensed Bosch VMS system using Professional Editions v5.5 or higher or Bosch VMS Enterprise Edition v5.5 or higher.

- Expansion license to integrate the intrusion control panel. One license needed per control panel. Order number MBX-XINT-xx for the expansion license added to a Bosch VMS base license. Refer to the Bosch Video Management Software product page on the Bosch website, www.boschsecurity.com.
- Access to the control panel account and Remote Programming Software (RPS).

**Bosch Security Manager Mobile App**
The Bosch Security Manager app allows users to control their security systems remotely from their smart devices. Users can:

- Easily view their system's status at a glance via the advanced and colorful design of the app
- Turn the security system On or Off (either the entire system or specific areas)
- Receive and filter event-driven push notifications
- View full event history for their system
- Add, edit, and delete users in their system
- Control outputs and doors
- View live video from Bosch IP cameras
- Access their panels from any device just by logging into the app with a Bosch ID (panels are now linked to an account and not a device)

Full functionality requires panel firmware 3.10 or higher and integration with the new Installer Services Portal. App users must have a valid email account and must be invited to the app by their Bosch certified dealer.
For those without access to the Installer Services Portal, Remote Security Control will remain available.

**Installer Services Portal (North America)**
The Installer Services Portal offers secure and easy access for managing Bosch cloud and cellular communication services for remote programming and alarm reporting. The Bosch Cloud Remote Connect service eliminates the need to change local router settings, firewall rules or to use Domain Name Service (DNS). In addition to seamless integration with RPS for remote programming, the Remote Connect service fully supports the Bosch Security Manager mobile app.

**UL2050 (SCIF) Support**
The B8512G can be used in UL2050 SCIF applications. Validation numbers 4342 and 2332 can be found on the NIST Advanced Encryption Standard Algorithm Validation List.

## Regulatory information

| Region | Regulatory compliance/quality marks | |
|---|---|---|
| USA | ANSI-SIA | CP-01-2010-Control Panel Standard - Features for False Alarm Reduction |
| Europe | CE | EMC, LVD, RoHS |
| Brazil | ANATEL | 04450-16-01855 |
| USA | CSFM | California State Fire Marshal |
| | FCC | Part 15 Class B |
| | FDNY-CoA | Fire Department of New York City [B9512G, B8512G] |
| | FM | Central Station |
| | FM | Local Protective Signaling |
| | FM | Remote Station |
| Canada | IC | ICES-003 - Information Technology Equipment (ITE) |
| Australia | RCM | Regulatory Compliance Mark |
| | RCM | Regulatory Compliance Mark |
| | RCM | ACMA |
| USA | UL | Underwriters Laboratories |
| | UL | UL 294 - Standard for Access Control Units and Systems |
| | UL | UL 365 - Police Station Connected Burglar Alarm Units |
| | UL | UL 609 - Standard for Local Burglar Alarm Units and Systems |
| | UL | UL 636 - Holdup Alarm Units and Systems |
| | UL | UL 864 - Standard for Control Units and Accessories for Fire Alarm Systems (10th edition) |
| | UL | UL 985 - Household Fire Warning System Units (6th edition) |
| | UL | UL 1023 - Household Burglar Alarm System Units |
| | UL | UL 1076 - Proprietary Burglar Alarm Units and Systems |
| | UL | UL 1610 - Central Station Burglar Alarm Units |
| | UL | UL 1635 - Standard for Digital Alarm Communicator System Units |
| | UL | UL 2572 - Standard for Mass Notification Systems |
| Canada | ULC | Underwriters Laboratories of Canada |

| Region | Regulatory compliance/quality marks | |
|---|---|---|
| | ULC | CAN/ULC S303 - Local Burglar Alarm Units and Systems |
| | ULC | CAN/ULC S304 - Standard for Signal Receiving Center and Premise Burglar Alarm |
| | ULC | CAN/ULC S545 - Residential Fire Warning System Control Units |
| | ULC | CAN/ULC S559 - Fire Signal Receiving Centres and Systems |
| | ULC | ULC-ORD C1023 - Household Burglar Alarm System Units |
| | ULC | ULC-ORD C1076 - Proprietary Burglar Alarm Units and Systems |

## Installation/configuration notes

**Notice**

Not all products and features are available in all regions. Consult your local Bosch representative for availability details.

### Compatible products

#### Keypads

B915/B915I Basic Keypad (SDI2)

B920 Two-line Alphanumeric Keypad (SDI2)

B921C Two-line Capacitive Keypad (SDI2)

B925F Fire Keypad (SDI2)

B926F Fire Keypad (SDI2)

B926M Mass Notification Keypad (SDI2)

B930 ATM Style Alphanumeric Keypad (SDI2)

B940W Touch screen KP, White (SDI2)

B942/B942W Touch Screen Keypad (SDI2)

#### Power

D1640 16.5 VAC 40 VA Transformer

DE-45-18 Transformer

TR1850 18 VAC 50 VA Transformer

D126 Standby Battery (12 V, 7 Ah)

D1218 Battery (12 V, 18 Ah)

D122 Dual Battery Harness

D122L Dual Battery Harness with Long Leads

#### Enclosures

B18 Large Universal Enclosure (White)

B8103 Universal Enclosure (White)

D137 Accessory mounting bracket for enclosure

D8103 Universal Enclosure (Gray)

D8108A Attack Resistant Enclosure

D8108A-CE Attack Resistant Enclosure with Built-in Transformer

D8109 Fire Enclosure

#### Accessories

B56 Keypad Surface Mount Box

B96 Keypad Trim Bezel

B99 USB Direct Connect Cable

B501-10 Interconnect wiring cables (pack of 10)

D161 Dual Modular Telephone Cord (7 f)

D162 Modular Telephone Cord (2 ft)

D166 Telephone Jack (RJ31X)

#### Detectors

D7050 Series Addressable Photoelectric Smoke and Smoke Heat Detector Heads

FAA-350 Detector base, 6”, POPIT

F220-B6PM/S 12/24 VDC Addressable Detector Bases with POPITs

F220-B6 12/24 VDC Two-wire Base

F220-B6R Standard 12/24 VDC Four-wire Base)

F220-P Photoelectric Smoke Detector

F220-PTH Photoelectric Smoke Detector with +135°F (+57°C) Heat Sensor

F220-PTH Photoelectric Smoke Detector with +135°F (+57°C) Heat Sensor and Carbon Monoxide Sensors

F220-B6C 12/24 VDC Four-wire Base with Auxiliary Form C Relay

FCC-380 Carbon Monoxide Detector

FCH-T320 Heat Detector

FCP-OT320 Multisensor Detector Optical/Thermal

FCP-O320 Optical Smoke Detector

MX775i Addressable PIR Detector

MX794i Long Range Multiplex PIR Detector

MX934i Addressable PIR Detector

MX938i Addressable PIR Detector

ZX776Z PIR Detector

ZX794Z Long Range PIR Detector

ZX835 TriTech Microwave/PIR Detector

ZX935Z PIR Detector

ZX938Z PIR Detector

ZX970 PIR/Microwave Detector

Bosch conventional detectors, including Professional Series, Blue Line Gen2, Blue Line, Classic Line, Commercial Line, and Ceiling Mount motion detectors, as well as glass break, seismic, request-to-exit, photoelectric, heat, and smoke detectors.

### Modules

B201 2-Wire Powered Loop Module

B208 Octo-input Module

B299 POPEX Module

B308 Octo-output Module

B426 Conettix Ethernet Communication Module

B430 Plug-in Telephone Communicator

B444-A/A2 Plug-in cell module, AT&T LTE

B444-V/V2 Plug-in cell module, Verizon LTE

B444-G Plug-in cell module, global LTE

B450 Conettix Plug-in Communicator Interface

B520 Auxiliary Power Supply Module

B600 Retrofit (ZONEX) Module

B810 wireless receiver (RADION)

B820 SDI2 Inovonics Interface Module

B901 Access Control Module

### Applications

Remote Programming Software (RPS or RPS-LITE) v6.03 and higher

Bosch Video Management System v5.5 and higher

Bosch Security Manager

### Conettix receivers

CONETTIX B6800 Central Station Software Receiver

Conettix D6600 Communications Receiver/Gateway (with only D6641 line cards installed) with CPU version 01.10.00

Conettix D6100IPv6 Communications Receiver/Gateway with CPU version 61.10.00

Conettix D6100i Communications Receiver/Gateway with CPU version 61.10.00

### RADION wireless from Bosch

B810 wireless receiver (RADION)

RFBT-A/RFBT bill trap

RFDL-11-A/RFDL-11 TriTech motion detector

RFDW-RM-A/RFDW-RM recessed mount door/window contact

RFDW-SM-A/RFDW-SM surface mount door/window contact

RFGB-A/RFGB glass break detector

RFKF-A/RFKF two-button keyfob

RFKF-FBS-A/RFKF-FBS four-button keyfob

RFKF-TBS-A/RFKF-TBS two-button keyfob

RFPB-SB-A/ RFPB-SB single-button panic

RFPB-TB-A/RFPB-TB two-button panic

RFRP-A/RFRP repeater

RFHT-A Wireless heat detector

RFSM2-A Wireless smoke detector

RFCO-A Wireless CO detector

RFPR-12-A/RFPR-12 PIR motion detector

RFPR-C12-A/RFPR-C12 PIR curtain motion detector

RFUN-A/RFUN universal transmitter

### Inovonics Wireless

B820 SDI2 Inovonics Interface Module

ENKIT-SDI2 SDI2 Inovonics Interface and Receiver Kit. Includes B820 and EN4200

EN1210 Universal Transmitter (Single-input)

EN1210EOL Universal Transmitter with EOL Resistor

EN1210W Door-Window Transmitter with Reed Switch

EN1215EOL Universal Transmitter with Wall Tamper, Reed Switch, and EOL Resistor

EN1223D Water-resistant Pendant Transmitter (Double-button)

EN1223S Water-resistant Pendant Transmitter (Single-button)

EN1224-ON Multiple-Condition Pendant Transmitter

EN1233D Necklace Pendant Transmitter (Double-button)

EN1233S Necklace Pendant Transmitter (Single-button)

EN1235D Beltclip Pendant Transmitter (Double-button)

EN1235DF Fixed-location Transmitter (Double-button)

EN1235S Beltclip Pendant Transmitter (Single-button)

EN1235SF Fixed-location Transmitter (Single-button)

EN1247 Glass-break Detector Transmitter

EN1249 Bill Trap Transmitter

EN1242 Smoke Detector Transmitter

EN1260 Wall Mount Motion Detector

EN1261HT High Traffic Motion Detector

EN1262 Motion Detector with Pet Immunity

EN1265 360° Ceiling Mount Motion Detector

EN4200 Serial Receiver

EN5040-T High Power Repeater with Transformer

## Parts included

| Quantity | Component |
|---|---|
| 1 | Control panel |
| 1 | Hardware pack |
| 1 | Literature pack<br>• UL Installation Guide<br>• ULC Installation Guide<br>• Owner's Manual<br>• Release Notes<br>• SIA Quick Reference Guide |
| 1 | Literature CD containing product literature |

## Technical specifications

### Capacity

| | |
|---|---|
| Number of points | 99 |
| Number of areas | 8 |
| Number of events | 2,048 |
| Number of users | 501 |
| Number of outputs | 93 |
| Number of on-board outputs | 3 |
| Number of custom functions | 8 |
| Number of SKEDs | 40 |
| Number of IP cameras | 8 |

### Electrical

| | |
|---|---|
| Current consumption (mA) | 180 mA – 260 mA |
| Input voltage (VAC) | 16.50 VAC – 18 VAC |
| Maximum auxiliary output current (mA) | 1,400 mA |
| Nominal voltage (VDC) | 12 VDC |
| Output current (A) | 0 A – 2 A |

### Environmental

| | |
|---|---|
| Operating temperature (°C) | 0 °C – 49 °C |
| Operating temperature (°F) | 32 °F – 120 °F |

| | |
|---|---|
| Operating relative humidity, non-condensing (%) | 5% – 93% |
| **Mechanical** | |
| Color | Black |
| Dimensions (H x W x D) (cm) | 26.99 cm x 19.69 cm x 4.76 cm |
| Dimensions (H x W x D) (in) | 10.6250 in x 7.75 in x 1.8750 in |
| Dimensions (H x W x D) (mm) | 269.90 mm x 196.90 mm x 47.60 mm |
| Weight (g) | 880 g |
| Weight (kg) | 0.88 kg |
| Weight (lb) | 1.95 lb |
| **Network** | |
| Ethernet type | 10/100BASE-T |

## Ordering information

**B8512G IP control panel, 8 areas, 99 points**
Supports up to 99 points, 3 on-board outputs, and 8 areas for intrusion, commercial fire. On-board Ethernet.
Order number **B8512G | F.01U.296.327 F.01U.390.775 F.01U.396.919 F.01U.416.974**

## Accessories

**B520 Auxiliary power supply module, 2A 12V**
Provides auxiliary power to 12 VDC devices or to SDI2 modules.
Order number **B520 | F.01U.172.941**

**B208 Expansion module, SDI2, 8-input**
Provides 8 programmable inputs.
Order number **B208 | F.01U.397.024**

**B308 Expansion module, SDI2, 8-output**
Provides 8 programmable relays.
Order number **B308 | F.01U.397.025**

**B901 Door Controller**
Fully supervised, addressable SDI2/SDI bus device that allows access control integration for Bosch G and B Series Control Panels.
Order number **B901 | F.01U.323.803**

**B810 Wireless SDI2 bus interface**
Receives RF signals from RADION transmitters, repeaters, and glassbreaks. Operates at 433.42 MHz. For use with compatible SDI2 bus control panels.
Order number **B810 | F.01U.323.799 F.01U.383.394**

**D122 Dual battery harness**
Harness with circuit breaker. Connects two batteries (in parallel) to a compatible control panel.
Order number **D122 | 4.998.800.378**

**D122L Dual battery harness, long**
Harness with circuit breaker and leads measuring 35 in. (89 cm). Connects two batteries (in parallel) to a compatible control panel in a separate enclosure.
Order number **D122L | 4.998.140.606**

**D126 Battery, 12V 7Ah**
A rechargeable sealed lead-acid power supply used as a secondary power supply or in auxiliary or ancillary functions.
Order number **D126 | 4.998.125.825**

**D1218 Battery, 12V 18Ah**
The D1218 is a 12 V 18 Ah sealed lead-acid battery with two bolt-fastened terminals. It is used for standby and auxiliary power. It connects to a compatible control panel using a D122 or D122L Dual battery harness.
Order number **D1218 | 4.998.125.820**

**D137 Accessory mounting bracket for enclosure**
Used to mount accessory modules in B8103, D8108A, and D8109 enclosures.
Order number **D137 | F.01U.020.521**

**D1640 Transformer plug-in, 16V 40VA**
System transformer rated at 16.5 VAC, 40 VA.
Order number **D1640 | 4.998.125.832**

**D1640-CA Transformer, plug-in, 16V 40VA, Canada**
For use in Canada. System transformer rated at 16.5 VAC, 40 VA.
Order number **D1640-CA | F.01U.270.316**

**D9002-5 Mounting plate, 6 location 3-hole, 5 pcs**
5 pack of mounting skirts for B8103, D8103, D8108A, and D8109 enclosures. Each skirt can hold up to six standard 3-hole mounting modules.
Order number **D9002-5 | F.01U.217.699**

**D101 Enclosure lock and key set**
Short-body lock set with one key supplied. Uses the D102 (#1358) replacement key.
Order number **D101 | 4.998.800.200**

**D110 Tamper switch for enclosure, 2pcs**
Screw-on tamper switch that fits all enclosures. Shipped in packages of two.
Order number **D110 | 4.998.137.947 F.01U.246.707**

**ICP-EZTS Dual tamper switch**
Combination tamper switch with a wire loop for additional tamper outputs.
Order number **ICP-EZTS | F.01U.217.038**

**B8103 Universal enclosure, white**
White steel enclosure measuring 41 cm x 41 cm x 9 cm (16 in. x 16 in. x 3.5 in.).
Order number **B8103 | F.01U.300.149**

**D8108A Attack resistant enclosure, large**
Grey steel enclosure measuring 41.5 cm x 41.5 cm x 9 cm (16 in. x 16 in. x 3.5 in.).
UL Listed. Includes a lock and key set.
Order number **D8108A | 4.998.125.920**

**D8109 Fire enclosure, 16x16x3.5", red**
Red enclosure, 16in. x 16in. x 3.5in. (41cm x 41cm x 9cm), 16 gauge (1.5mm) cold-rolled steel, full-length hinge, D101F lock and 2 D102F keys, UL Listed for commercial fire/burglary applications.
Order number **D8109 | 4.998.800.205**

**D8004 Transformer enclosure kit, grey**
For applications that might require a remote transformer in an enclosure. Can be used with B Series control panels and D9412GV4/D7412GV4 control panels.
Order number **D8004 | 4.998.140.404**

**BATB-40 Battery box/enclosure, 22x21x7.25"**
22 x 20.75 x 7.25" (56 x 53 x 18.5 cm). Holds two dry or wet cell batteries. Optional BATB-SHELF battery shelf increases number of batteries. Suitable for residential/commercial fire or burglary applications.
Order number **BATB-40 | 4.998.137.930 F.01U.415.596**

**BATB-80 Battery box/enclosure, 22x21x7.25"**
22 in. x 20.75 in. x 7.25 in. (55.9 cm x 52.7 cm x 18.4 cm). Battery box/enclosure with shelf holds up to four dry or wet cell batteries. Suitable for residential/ comercial fire or burglary applications.
Order number **BATB-80 | 4.998.137.931**

**B99 USB direct connect cable**
Male A to Male A USB cable for local programming of control panels with on-board USB ports.
Order number **B99 | F.01U.278.853**

**B915 Basic Keypad**
Two-line alphanumeric basic keypad with language function keys.
Available languages: English, Chinese, Dutch, French, German, Greek, Italian, Hungarian, Polish, Portuguese, Spanish, Swedish.
Order number **B915 | F.01U.323.784 F.01U.385.667**

**B915I LCD keypad, icon keys, SDI2**
Two-line alphanumeric basic keypad with icon function keys.
Available languages: English, Chinese, Dutch, French, German, Greek, Italian, Hungarian, Polish, Portuguese, Spanish, Swedish.
Order number **B915I | F.01U.385.666 F.01U.315.437**

**B920 2 Line Alpha Numeric Keypad (SDI2)**
Two-line alphanumeric keypad
Available languages: English, Dutch, French, German, Hungarian, Italian, Portuguese, Spanish, Swedish.
Order number **B920 | F.01U.323.785 F.01U.385.668**

**B921C Two-line Keypad w/Touch keys, Inputs**
Two-line alphanumeric keypad with inputs and capacitive touch keys in black.
Available languages: English, Dutch, French, German, Hungarian, Italian, Portuguese, Spanish, Swedish.
Order number **B921C | F.01U.323.786 F.01U.385.734**

**B930 ATM Style-Alpha Numeric Keypad (SD12)**
Five-line ATM style alphanumeric keypad
Available languages: English, Dutch, French, German, Hungarian, Italian, Portuguese, Spanish, Swedish.
Order number **B930 | F.01U.323.787 F.01U.385.669**

**B940W Slim Touch Keypad**
SDI2 compatible touch screen keypad with function keys.
Available languages: English, Chinese, Dutch, French, German, Greek, Italian, Hungarian, Polish, Portuguese, Spanish, Swedish.
Order number **B940W | F.01U.358.360**

**B942 Touch Screen KP Prox/Input/Output, black**
Black SDI2 touch screen keypad with inputs and one output.
Available languages: English, Chinese, Dutch, French, German, Greek, Italian, Hungarian, Polish, Portuguese, Spanish, Swedish.
Order number **B942 | F.01U.323.788**

**B942W Touch screen KP, prox/input/output,white**
White SDI2 touch screen keypad with inputs and one output.
Available languages: English, Chinese, Dutch, French, German, Greek, Italian, Hungarian, Polish, Portuguese, Spanish, Swedish.
Order number **B942W | F.01U.323.789**

**B925F Fire and intrusion keypad, SDI2**
Two-line alphanumeric fire and intrusion keypad.
Order number **B925F | F.01U.303.219 F.01U.382.454**

**B926F Fire keypad, SDI2**
Two-line alphanumeric fire keypad
Order number **B926F | F.01U.382.455**

**B426 Ethernet Communication Module**
Supports two-way communications over Ethernet networks for compatible control panels
Order number **B426 | F.01U.324.383 F.01U.414.222**

**B442 Plug-in cellular module, GPRS**
Multi-function cellular communicator that provides IP communication over a (GPRS) cellular network
Order number **B442 | F.01U.283.090 F.01U.385.514**

**B443 Plug-in Cellular, HSPA+ (3G+)**
Multi-function 3G/4G cellular communicator providing IP communication over a GPRS/EDGE/UMTS/HSPA+ cellular network
Order number **B443 | F.01U.323.796 F.01U.385.515**

**B444 Plug-in cellular module, VZW LTE, hot**
Pre-activated 4G LTE cellular communicator for secure two-way IP communication on the Verizon Wireless LTE network.
Order number **B444 | F.01U.335.089**

**B444-C Plug-in cell module, VZW LTE, cold**
Non-activated 4G LTE cellular communicator for secure two-way IP communication on the Verizon Wireless LTE network.
Order number **B444-C | F.01U.349.007**

**B444-A Plug-in cell module, AMEC LTE**
This communication module provides secure two-way IP communication on North American wireless networks. Only available in Canada.
Order number **B444-A | F.01U.385.518**

**B444-V Plug-in cell module, VZW LTE**
This communication module provides secure two-way IP communication on the Verizon Wireless network.
Order number **B444-V | F.01U.385.517**

**B926M Mass notification keypad, SDI2**
Fully supervised SDI2 keypad for Mass Notification Systems and fire applications.
Order number **B926M | F.01U.391.460**

## Software Options

**D5500C-USB Kit with DVD and USB security dongle**
Remote Programming Software (RPS) with USB security key (dongle).
Order number **D5500C-USB | 4.998.143.724**

## Services

**EWE-GSERIE-IW 12 mths wrty ext G Series panel**
12 months warranty extension
Order number **EWE-GSERIE-IW | F.01U.352.287**

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# B930 ATM Style-Alpha Numeric Keypad (SD12)

www.boschsecurity.com

BOSCH
Invented for life

- 5-line ATM style LCD display with up to 32 character point, user, and area names
- Simple menu-style user interface with dedicated function buttons for common commands
- Programmable keypad shortcuts and situation sensitive on-screen help makes system operation simple and easy
- Highly visible on (arm)/alarm, ready to turn on (arm), power and gas alarm indicators
- Simple installation with self-locking base and chassis design, plus built-in bubble level

The B930 ATM Style Alphanumeric Keypad (SDI2) is a SDI2 bus compatible device. Each keypad has user adjustable options such as volume and display brightness. The B930 shows five-line system messages for all areas.
Available languages: English, Dutch, French, German, Hungarian, Italian, Portuguese, Spanish, Swedish.

## System overview

- For commercial use, install the keypad in building entrances and areas with unrestricted access. Mounting a keypad near exterior doors in hotel or business lobbies allows people to identify the type and location of the emergency.
- For residential use, install the keypad near the front and rear entrances to the home. Install additional keypads in a kitchen or in a bedroom.
- Use multiple keypads in a large building with many separate areas of security. Program multiple keypads to control multiple areas.
- Audible tones from the keypad sounder alert personnel to fire events and assist fire fighters in locating the keypad.

## Functions

**LCD Display**
The keypad uses words, numbers, and symbols to show the status of the security system. When several events occur, the keypad shows each event in order of priority. The display shows five lines, 21 characters per line.

**Keys**
Each keypad has 10 numeric keys, 5 navigation keys, and eight softkeys. When pressed, keys enable keypad backlighting and emit a muted beep. Use the eight softkeys to select a menu and associated functions.

**Audible tones**
The keypad has a built-in speaker that produces several distinct warning tones. The tones are differentiated so that the user can recognize an event simply by hearing its associated tone. The keypad backlight illuminates when it emits an audible tone. Users can use a passcode to silence the tone.

### Status indicators
The status indicators on the keypad provide a quick visual reference for system status.

| | |
|---|---|
| ✓ | The indicator lights when the system is ready to turn on (arm). |
| 🔒 | The indicator lights when the system is on (armed). |
| ⚠ | The indicator lights when there is a trouble condition. |
| GAS | The indicator lights when dangerous gases are present including carbon monoxide (NFPA 720). |
| ⏻ | The indicator lights when the system has power. |

### Audible tones
The keypad has a built-in speaker that produces several distinct warning tones. The keypad backlight illuminates when it emits an audible tone. You can use a passcode to silence the tone.
The tones include:
- 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. The keypad emits an intermittent beep tone during entry delay periods to remind the user to disarm the area.
- Exit warning. The keypad emits an intermittent beep tone during exit delay.
- Invalid button buzz. When an invalid button, or sequence of buttons, is pressed, the keypad emits a flat buzz tone.
- Keypad encoding tone. The keypad emits a muted beep tone as each button is pressed to indicate that the entry was accepted.
- 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. A single clean tweedle tone alerts the user anytime a watch point is faulted.

## Certifications and approvals

| Region | Regulatory compliance/quality marks | |
|---|---|---|
| Australia | RCM | ACMA |
| Europe | CE | EMC, RoHS [B915, B920, B930, B430, B208, B308, B901] |
| USA | UL | |
| | UL | UL 365 - Police Station Connected Burglar Alarm Units |
| | UL | UL 609 - Standard for Local Burglar Alarm Units and Systems |
| | UL | UL 636 - Holdup Alarm Units and Systems |
| | UL | UL 985 - Household Fire Warning System Units (6th edition) |
| | UL | UL 1023 - Household Burglar Alarm System Units |
| | UL | UL 1076 - Proprietary Burglar Alarm Units and Systems |
| | UL | UL 1610 - Central Station Burglar Alarm Units |
| | CSFM | California State Fire Marshal |
| | FCC | Part 15 Class B |
| Canada | ULC | CAN/ULC S303 - Local Burglar Alarm Units and Systems |
| | ULC | CAN/ULC S304 - Standard for Signal Receiving Center and Premise Burglar Alarm |
| | ULC | CAN/ULC S545 - Residential Fire Warning System Control Units |
| | ULC | ULC-ORD C1023 - Household Burglar Alarm System Units |
| | ULC | ULC-ORD C1076 - Proprietary Burglar Alarm Units and Systems |
| | ULC | Underwriters Laboratories of Canada S1871-20121210 |
| | IC | ICES-003 - Information Technology Equipment (ITE) |

## Installation/configuration notes

### Mounting considerations
Mount in indoor, dry locations.

### Power supply
A compatible control panel supplies the power and data requirements to the keypad through a four-wire connection.

### Enclosure and wiring
The sliding self-locking enclosure has an integrated bubble level and custom gap-free, lift-gate style terminal blocks to make installation easier.

### Compatible control panels
B9512G/B9512G-E
B8512G/B8512G-E
B6512
B5512/B5512E firmware v2.02 and higher
B4512/B4512E firmware v2.02 and higher
B3512/B3512E firmware v2.02 and higher
D9412GV4/D7412GV4 firmware v2.02 and higher

## Parts included

| Quantity | Component |
|---|---|
| 1 | Keypad |
| 1 | Hardware pack |

| Quantity | Component |
|---|---|
| 1 | Installation Guide |
| 1 | User's Quick Reference Guide |

## Technical specifications

### Properties

| | |
|---|---|
| Dimensions | 6.2 in x 5.5 in x 1 in<br>(158 mm x 140 mm x 26 mm) |
| Weight | 14.1 oz (0.40 kg) |
| Material | Acrylonitrile butadiene styrene (ABS)<br>Poly(methyl methacrylate) (PMMA) |
| Display window | 5 line display<br>21 characters per line |
| Indicators | Illuminated keys<br>Status indicators<br>Warning and indicating tones |

### Environmental considerations

| | |
|---|---|
| Relative humidity | 5% to 93% at +32°C (+90°F) non-condensing |
| Temperature (operating) | 0°C to +50°C (+32°F to +122°F) |

### Power requirements

| | |
|---|---|
| Current | 35 mA in standby mode<br>80 mA in alarm mode |
| Voltage (input) | 12 VDC nominal |

### Wiring

| | |
|---|---|
| Terminal wires | 12 AWG to 22 AWG (2 mm to 0.65 mm) wire |

## Ordering information

**B930 ATM Style-Alpha Numeric Keypad (SD12)**
Five-line ATM style alphanumeric keypad
Available languages: English, Dutch, French, German, Hungarian, Italian, Portuguese, Spanish, Swedish.
Order number **B930**

### Accessories

**B56 Keypad surface mount box**
Surface mount box for mounting a keypad to concrete or block.
Order number **B56**

**B96 Trim plate for keypad**
Cover the wall footprint of previous keypads when replacing them with the new, slim design of B Series keypads. The white trim bezel is 8.6 in x 6.3 in x 0.12 in (22 mm x 16 mm x 3 mm).
Order number **B96**

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# D161 Dual Modular Telephone Cord

www.boschsecurity.com

BOSCH
Invented for life

- Connects an RJ31X Telco block to an RJ38X Telco jack
- 2.1 m (7 ft.) for longer distances

## Certifications and approvals

| Region | Certification | |
|---|---|---|
| USA | CSFM | see our website |

## Parts included

| Quantity | Component |
|---|---|
| 1 | Telephone cord |

## Technical specifications

| | |
|---|---|
| Length | 2.1 m (7 ft.) |
| Color | Gray |

## Ordering information

**D161 Dual Modular Telephone Cord**
A 2.1 m (7 ft.), 8-conductor fully modular plug-in cord.
Order number **D161**