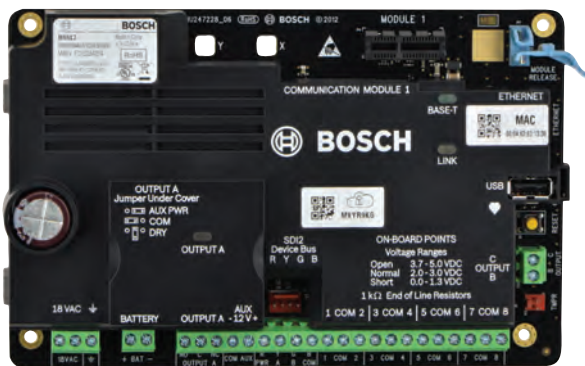


# B3512 Control Panels

www.boschsecurity.com



**BOSCH**  
Invented for life



- ▶ Provides up to 16 points using 8 on-board and 8 wireless points for installation flexibility with perimeter and interior control. Supports keypad points.
- ▶ 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 on-board USB for easy on-site RPS programming, plus support for Remote Connect Service (not available in Europe, the Middle East, or Africa), and plug-in PSTN and cellular communication modules for simple installation and communications
- ▶ Remote Security Control (RSC) app which allows users to control their security systems - and view system cameras - remotely from mobile devices such as phones and tablets
- ▶ Programmable keypad shortcuts, situation sensitive on-screen help, and a bilingual user interface make system operation simple and easy

The B3512 Control Panel integrates intrusion and residential fire, providing one simple user interface for both systems. The B3512 provides up to 16 individually identified points in a single area. The control panel can communicate through its built-in Ethernet port (not applicable to “E” control panels), or through compatible plug-in modules that can send events over the public switched telephone network (PSTN) or over cellular network communications. With the B3512, you can monitor doors, windows, and motion within areas like showrooms or those that hold inventory. Each user can have a personalized passcode, a wireless keyfob, and a credential to control the system.

Use programmable authority levels with restricted privileges to provide service, security, and cleaning personnel with full or limited access. Use the three programmable outputs to turn on lights or lock and unlock doors. Users can:

- Turn on the system to secure the stock room while you conduct daily business.
- Perform tests to ensure your system is working properly.
- Set your system to alarm immediately if a door opens.
- Activate the Watch feature so a tone sounds whenever a customer enters.
- Set a schedule for your system to automatically turn on at closing time.

- Use wireless security options to customize your system.

Central monitoring stations provide 24-hour system monitoring with access to vital services. Professional security personnel can test the system, monitor system activity, and alert the police, fire department, or other emergency response teams if necessary.

## Functions

### Programmable outputs

- Three programmable on-board outputs; one high current using a relay, and two trigger outputs
- Output A, with a contact rating of 3 Amps, can supply up to 1.0 A total current from AUX PWR
- Outputs B and C sink up to 50 mA at 12 VDC
- Four alarm-output patterns
- Programmable bell test

### System response

- High-performance micro-controller provides industry leading system response
- 20 custom point indexes
- Selectable point response time
- Cross point capability
- Fire alarm verification
- Dangerous gas indicator includes carbon monoxide (NFPA 720)
- Watch mode
- A scheduled event (SKED) to perform several functions, such as turn on (arm) the system, turn off (disarm) the system, bypass and unbypass points, and control relays

### User interface

- Supervision of up to 4 keypads
- Custom keypad text is fully programmable through RPS
- Full function menu including custom functions
- Authority by area and 32 character name for each user
- 14 custom authority levels control user's authority to change, add, or delete passcodes to disarm or bypass areas; and to start system tests
- Programmable primary and secondary language by user and keypad; select from English, Spanish, French, and Portuguese

### Area Re-Arm

For higher security applications, this 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 one custom function. A custom function allows customers to complete complex tasks with fewer keystrokes. For example, a custom function can bypass a group of points and arm the system, allowing the user to perform this function with one easy command. Installers can use custom functions to control a

particular room. Customers activate a custom function with a keypad, with a keyfob, by faulting a point, or automatically as 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.

### 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.

### Monitor Delay/Delayed Response

Create a special point index 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 10 users. Each user can have a personalized passcode, a wireless keyfob, and a credential to control the system. You can assign passcodes to one of 14 customized authority levels that can be restricted to operate only during certain times. Programmable primary and secondary language by user and keypad; select from English, Spanish, French, and Portuguese.

### Communication formats

The control panel prioritizes and sends reports to four route groups. Network and phone communications can use one of two communication formats: Modem4, Contact ID. Each group has a programmable primary and backup destination.

The control panel provides flexible communications for most central stations with reporting capabilities such as:

- Individual point numbers
- Opening or closing reports by user and area number
- Remote programming attempts
- Diagnostic reports

### IP communication

The control panel can use IP to communicate with a Conetix D6600 or a Conetix D6100IPv6 Communications Receiver/Gateway. Use one of the following for IP:

- The on-board Ethernet connection (the on-board Ethernet port is excluded on “E” versions).
- A B426.
- A plug-in cellular communicator (B440/B440-C/B441/B441-C/B442/B443/B444).

Conetix 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 16 destinations using a combination of cellular phone numbers and email addresses. The control panel sends notifications in the user’s programmed primary language.

### Bosch Remote Connect (Cloud)

Remote Connect simplifies connections from RPS, and the Remote Security Control app, using Bosch Cloud services. This service creates a secure connection to the control panel without specific router settings or the need for a static IP address or DNS.



#### Notice

The Bosch Remote Connect service is not available in Europe, the Middle East, or Africa.

### Firmware updates

The system allows remote firmware updates:

- Control panel updates. Remotely update the control panel firmware for easy feature enhancements without replacing ROM chips.

- Module update support. Remotely update the firmware on connected SDI2 modules for easy feature enhancements without visiting each individual module.

Firmware updates occur through Remote Programming Software (RPS) and the RPS Firmware Update Wizard. The Firmware Update Wizard uses the on-board USB connection or the on-board Ethernet (IP) connection (the on-board Ethernet port is excluded on “E” versions) to transfer firmware updates.

The control panel can optionally receive firmware updates from RPS. Use one of the following communication methods:

- B426
- Plug-in cellular communicator: B440/B440-C/B441/B441-C/B442/B443/B444



#### Notice

##### Data rate apply

Cellular firmware updates require more time than Ethernet updates and carrier data rates apply.

### A wide variety of input options

Each point:

- Accommodates normally-open (NO) and normally-closed (NC) devices with end-of-line (EOL) resistor supervision.
- Accepts programming for fire, gas, fire supervisory, or intrusion applications.
- Supports hardwired and wireless devices.

### Security and fire detection

The control panel provides 8 on-board points, and up to 8 additional wireless points. You can program individual points to monitor burglar alarms, fire alarms, and supervision devices.

### Event log

The event log stores local and reported events. The event log includes information such as 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.

The log stores up to 127 local and reported events.

### Scheduled events (SKEDs)

The internal clock and calendar start a scheduled event (SKED). A SKED performs functions such as turn on or off, relay control, or point bypassing.

- One scheduled event with up to 25 different functions
- Two opening windows and two closing windows
- Two user group windows
- Day-of-week, date-of-month, or holiday only schedules
- One holiday schedule of 366 days (leap year)

### 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.

### 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.

### Remote Security Control app

The Remote Security Control (RSC) app allows users to control their security systems remotely from their devices. Users can:

- Turn their security system On or Off
- Turn specific areas On or Off
- Control outputs for applications such as lighting control
- Grant access remotely by unlocking and locking doors

The app requires the installing dealer to create a Remote Access Profile for users, and to install the profile on their devices.

### 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.

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](http://www.boschsecurity.com).
- Access to Remote Programming Software (RPS).

### Certifications and approvals

Region	Regulatory compliance/quality marks	
USA	ANSI-SIA	CP-01-2010-Control Panel Standard - Features for False Alarm Reduction
Australia	RCM	ACMA

Region	Regulatory compliance/quality marks	
Europe	CE	EMC, LVD, RoHS [B6512, B5512, B5512E, B4512, B4512E, B3512, B3512E]
USA	UL	[B6512, B5512, B4512, B3512]
	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
	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
		CSFM
	FCC	Part 15 Class B
Canada	ULC	{B6512, B5512, B4512, B3512}
	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
	IC	ICES-003 - Information Technology Equipment (ITE)
Brazil	ANATEL	04712-16-01855 [B5512, B4512, and B3512 when used with B430 or B442]

### Installation/configuration notes



#### Notice

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

### Keypads

B942/B942W Touch Screen Keypad (SDI2)

B930 ATM Style Alphanumeric Keypad (SDI2)

B921C Two-line Capacitive Keypad (SDI2)

B920 Two-line Alphanumeric Keypad (SDI2)

B915/B915I Basic Keypad (SDI2)

#### Power

CX4010 Plug-in Transformer (18 VAC 22 VA 60 Hz)

ICP-TR1822-CAN Plug-in Transformer (110 VAC primary, 18 VAC 22 VA secondary)

DE-45-18 Transformer

D126 Standby Battery (12 V, 7 Ah)

D1218 Battery (12 V, 18 Ah)

D122 Dual Battery Harness

D122 Dual Battery Harness with long leads

#### Enclosures

B10 Medium Control Panel Enclosure

B11 Small Control Panel Enclosure

B12 Mounting Plate for D8103 Enclosure

B8103 Universal Enclosure (requires a B12)

D8108A Attack Resistant Enclosure (requires a B12)

D8109 Fire Enclosure (requires a B12)

D8108A-CE Attack Resistant Enclosure with Built-in Transformer (requires a B12)

B-ENCL-1 Metal Enclosure Kit (includes B12 and transformer)

#### Accessories

B56 Keypad Surface Mount Box

B96 Keypad Trim Bezel

B99 USB Direct Connect Cable

B501-10 Interconnect wiring cables (pack of 10)

#### Detectors

FCC-380 Carbon Monoxide Detector

F220-P: Photoelectric Smoke Detector

F-220-PTH: Photoelectric/Heat Detector

FCP-OT320 Multisensor Detector Optical/Thermal

FCP-O320 Optical Smoke Detector

FCH-T320 Heat 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

B426 Conettix Ethernet Communication Module

B430 Plug-in Communicator, Telephone

B440 Conettix Plug-in Cellular Communicator (using 3G)

B441 Conettix Plug-in Cellular Communicator (using CDMA)

B442 Conettix Plug-in Cellular Communicator (using GPRS)

B443 Conettix Plug-in Cellular Communicator (using HSPA+)

B450 Conettix Plug-in Communicator Interface

B520 Auxiliary Power Supply Module

B810 wireless receiver (RADION)

B820 SDI2 Inovonics Interface Module

D113 Battery Lead Supervision Module

D125B Dual Class B Initiating Module

D129 Class A Initiating Module

D130 Auxiliary Relay Module

D132A Smoke Detector Reversing Relay Module

D134 Dual Relay Module

D135A Low Battery Disconnect Module

D185 Reverse Polarity Signaling Module

D192G Class "B", Style Y Bell Circuit Supervision

#### Applications

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

Bosch Video Management System v5.5 and higher

Remote Security Control (RSC)

#### Conettix receivers

(Managed and configured with Conettix D6200 Programming/Administration Software v2.00)

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

RFSM-A/RFSM smoke 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

## Technical specifications

### Communications

Ethernet	10/100 full duplex (N/A for "E" control panels)
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### Environmental considerations

Relative humidity	5% to 93% at +90°F (+32°C), non-condensing
Temperature (operating)	+32°F to +122°F (0°C to +49°C)

### Number of...

Areas	1
Custom functions	1
Events	Up to 127
Passcode users	10, plus 1 Installer passcode
Points	16 (8 on-board, up to 8 wireless)
Programmable outputs	3 on-board
RF points	8
SKEDs	1

### Power Requirements

Current draw (maximum)	Idle 125 mA; Alarm 155 mA
Output (alarm)	1.3 A at 12 VDC
Output (auxiliary, continuous power, and switched auxiliary combined):	800 mA at 12 VDC nominal
Voltage (operating):	12 VDC nominal
Voltage (AC):	CX4010 UL Listed Class 2 Transformer 18 VAC 22 VA 60 HZ

## Ordering information

### B3512 IP control panel, 16 points

Supports up to 16 points, 3 on-board outputs, and 1 area for intrusion, residential fire. On-board Ethernet. Order number **B3512**

### B3512E Control panel, 16 points, no IP

The B3512E is available only in kits, with a minimum order quantity of 10. Order number **B3512E**

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**Accessories**
**Auxiliary power supply module, 2A 12V**

Provides auxiliary power to 12 VDC devices or to SDI2 modules.

Order number **B520**

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**2-Wire Powered Loop**

The module provides a single powered initiating device circuit. The module supports compatible 12 V 2-wire smoke detectors. It also supports connecting burglary devices to the control panel.

Order number **B201**

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**B810 RECEIVER-SDI2**

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**

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**D122 Dual Battery Harness**

Harness with circuit breaker. Connects two batteries (in parallel) to a compatible control panel.

Order number **D122**

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**Dual battery harness, 35", 12V**

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**

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**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**

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**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**

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**CX4010 Transformer, plug-in, 18V 22VA**

For use in North America. 110 VAC primary voltage input. 18 VAC, 22 VA secondary input.

Order number **CX4010**

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**ICP-TR1822-CAN Transformer, plug-in, 18V 22VA, Canada**

For use in Canada. 110 VAC primary voltage input. 18 VAC, 22 VA secondary input.

Order number **ICP-TR1822-CAN**

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**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**

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**B8103 Enclosure**

White steel enclosure measuring 41 cm x 41 cm x 9 cm (16 in. x 16 in. x 3.5 in.).

Order number **B8103**

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**D8103 Enclosure**

Grey steel enclosure measuring 41 cm x 41 cm x 9 cm (16 in. x 16 in. x 3.5 in.).

Order number **D8103**

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**D8108A Attack resistant enclosure, large, grey**

Grey steel enclosure measuring 41 cm x 41 cm x 9 cm (16 in. x 16 in. x 3.5 in.). UL Listed. Includes a lock and key set.

Order number **D8108A**

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**D8109 Fire Enclosure**

Red steel enclosure measuring 16 in. x 16 in. x 3.5 in. (41 cm x 41 cm x 9 cm). UL Listed. Includes a lock and key set.

Order number **D8109**

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**B10 Steel enclosure, medium, white**

White, steel enclosure. Accepts an optional lock and tamper switch. Measures 35.6 cm x 31.8 cm x 7.6 cm (14 in x 12.5 in x 3 in.).

Order number **B10**

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**B11 Steel enclosure, small, white**

White, steel enclosure. Accepts an optional lock and tamper switch. Measures 27.8 cm x 25.9 cm x 8.32 cm (10.9 in x 10.2 in x 3.3 in.).

Order number **B11**

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**Mounting plate for D8103 enclosure**

Required for mounting select control panels and other devices in B8103, D8103, D8108A, D8109, and BATB Battery Box enclosures.

Order number **B12**

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**D101 Lock and Key Set**

Short-body lock set with one key supplied. Uses the D102 (#1358) replacement key.

Order number **D101**

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**D110 Tamper Switch**

Screw-on tamper switch that fits all enclosures. Shipped in packages of two.

Order number **D110**

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**ICP-EZTS Dual Tamper Switch**

Combination tamper switch with a wire loop for additional tamper outputs.

Order number **ICP-EZTS**

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**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**

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**Basic Keypad**

Two-line alphanumeric basic keypad with English function keys.

Order number **B915**

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**LCD keypad, icon keys, SDI2**

Two-line alphanumeric basic keypad with icon function keys.

Order number **B915I**

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**2 Line Alpha Numeric Keypad (SDI2)**

Two-line alphanumeric keypad

Order number **B920**

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**B921C Two-line Keypad w/Touch keys, Inputs**

Two-line alphanumeric keypad with inputs and capacitive touch keys in black.

Order number **B921C**

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**ATM Style-Alpha Numeric Keypad (SD12)**

Five-line ATM style alphanumeric keypad

Order number **B930**

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**B942 Touch Screen KP Prox/Input/Output, black**

Black SDI2 touch screen keypad with inputs and one output.

Order number **B942**

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**B942W Touch screen KP, prox/input/output,white**

White SDI2 touch screen keypad with inputs and one output.

Order number **B942W**

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**Software Options****D5500CU Upgrade DVD**

RPS software is available for free download on the RPS product page. It is also available on DVD-ROM.

Order number **D5500CU**

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