**Intrusion Alarm Systems | B942 Touch Screen Keypad**

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- Color graphic touch screen display uses a combination of simple icons and text for easy operation
- Built-in presence detector lights the display when user approaches keypad
- Built-in proximity reader allows use of a token or card as replacement for a passcode, or for use with dual authentication for high security areas
- Four inputs and one output provide cost effective expansion
- Slim, modern design blends with any decor

The keypad is an SDI2 bus compatible device. The keypad features an illuminated touch screen and graphical interface. With an elegant design and low profile, the keypad fits with any modern decor. Each keypad has user adjustable options such as volume and brightness. They have four inputs and one output. The keypad shows system messages for all areas.

**Keypad languages**
The following languages are available:
- English
- Chinese
- Dutch
- French
- German
- Greek
- Italian
- Hungarian
- Polish
- 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**

**Display**
The touch screen display uses icons, words, numbers, and symbols to show the status of the security system and for interacting with the security system. When several events occur, the keypad shows each event in order of priority. The keypad detects when a user approaches and automatically activates the display.
User icons and keys
The keypad greets the user with a home screen that shows the system status at one glance using a large icon. The user can change the system status by simply touching this home screen icon. The touch screen display also offers icons on the ribbon bar. These visually pleasing graphical icons are easy to use for accessing menus and other options. The keypad has a variety of keyboards for entering alphanumeric characters. The keypad screen has numeric keys and one function [CMD] key. When pressed, keys emit a muted beep. Use the keyboards for entering passcodes, activating commands, and entering alphanumerical characters.

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 or credential 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.
🔥 The indicator lights when dangerous gases are present including carbon monoxide (NFPA 720).
✨ The indicator lights when the system has power.

Proximity reader
The proximity reader allows users to use a token or card in place of a passcode to turn on or off the security system. The proximity reader supports EM4102 (125 kHz) credentials. The Bosch ACA-ATR13-RFID tag and Bosch ACD-ATR11ISO-RFID card are examples.

Certifications and approvals

<table>
<thead>
<tr>
<th>Region</th>
<th>Regulatory compliance/quality marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>RCM, ACMA</td>
</tr>
<tr>
<td>Europe</td>
<td>CE, RED, EMC, LVD, RoHS [B942 B942W]</td>
</tr>
<tr>
<td>USA</td>
<td>UL UL 365 - Police Station Connected Burglar Alarm Units</td>
</tr>
<tr>
<td></td>
<td>UL UL 609 - Standard for Local Burglar Alarm Units and Systems</td>
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<tr>
<td></td>
<td>UL UL 636 - Holdup Alarm Units and Systems</td>
</tr>
<tr>
<td></td>
<td>UL UL 985 - Household Fire Warning System Units</td>
</tr>
</tbody>
</table>

Installation/configuration notes

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

Mounting and wiring
Mount in dry indoor locations. Includes a slim mounting plate for recessing wiring, and a surface mounting plate for surface mounting and wiring.

Compatible control panels
B9512G/B9512G-E
B8512G/B8512G-E
B6512
B5512/B5512E firmware v2.03 and higher
B4512/B4512E firmware v2.03 and higher
B3512/B3512E firmware v2.03 and higher
D9412GV4/D7412GV4 v2.03 and higher

Technical specifications

Properties

<table>
<thead>
<tr>
<th>Dimension</th>
<th>158 mm x 120 mm x 16.5 mm (6.2 in x 4.7 in x 0.65 in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>0.32 kg (11.3 oz)</td>
</tr>
<tr>
<td>Material</td>
<td>Acrylonitrile butadiene styrene (ABS) Poly(methyl methacrylate) (PMMA)</td>
</tr>
</tbody>
</table>
Display window | Touch screen  
| Multi-line messages  

Indicators | Power indicator LED  
| Status indicators  
| Main icon  
| Warning and indicating tones  

Inputs | 4 (four) 1kΩ supervised inputs  

Output | 1 (one) NO (normally open) contact  

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 with proximity reader disabled Standby: 200 mA  
Alarm: 300 mA  
Current with proximity reader enabled Standby: 300 mA  
Alarm: 400 mA  
Voltage (input) | 12 VDC nominal  

Wiring  
Terminal wire size | 18 AWG to 22 AWG (1.02 mm to 0.65 mm)  
SDI2 wiring with prox detector disabled Maximum distance - wire size (unshielded wire only):  
200 ft (61 m) - 22 AWG (0.65 mm)  
520 ft (159 m) - 18 AWG (1.02 mm)  
SDI2 wiring with prox detector enabled Maximum distance - wire size (unshielded wire only):  
150 ft (46 m) - 22 AWG (0.65 mm)  
390 ft (119 m) - 18 AWG (1.02 mm)  

Inputs and output  
On-board points voltage ranges  
Open: 2.2 to 5.0 VDC  
Normal: 1.4 to 1.8 VDC  
Short: 0.0 to 1.0 VDC  
Short circuit current: 2.3 mA  
Relay contact rating | 24 VDC, 1 A, power factor: 1  

Ordering information  
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  
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  
B942-CHI Touch Screen KP Prox/Input/Output, black  
Black SDI2 touch screen keypad with inputs and one output.  
Available language: Chinese.  
Order number B942-CHI  
B942W-CHI Touch Screen KP Prox/Input/Output, white  
White SDI2 touch screen keypad with inputs and one output.  
Available language: Chinese.  
Order number B942W-CHI  

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  

GV4-ROM-KEY Kit for GV4 version 2.x ROM  
Firmware updates current D9412GV4/D7412GV4 v1.xx control panels to GV4 v2.xx.  
Order number GV4-ROM-KEY  

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