

# B921C Two-line Capacitive Keypad with Inputs (SDI2)

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Invented for life

- ▶ 2-line LCD display with up to 32 character point, user, and area names
- ▶ Capacitive touch keys clean easily and are more resistant to wear than traditional mechanical buttons
- ▶ Situation sensitive on-screen help makes system operation simple and easy
- ▶ Highly visible on (arm)/alarm, ready to turn on (arm), power, trouble, and gas alarm indicators
- ▶ Four inputs provide simple, lower-cost point expansion

- Audible tones from the keypad sounder alert personnel to fire events and assist fire fighters in locating the keypad.

The B921C keypad is an SDI2 bus compatible device. The keypad features capacitive touch keys, instead of the mechanical buttons found on most keypads. With a smooth, sleek surface, the keypad is easy to clean, and fits with any modern decor. The keypad has user adjustable options such as volume and brightness. The keypad has three programmable emergency keys, and four inputs. The keypad also shows two-line system messages for all areas.

## 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.

## 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.

### Keys

Each keypad has 10 number keys, 7 function keys, and 6 navigation keys. When pressed, keys turn on keypad backlighting and emit the keypress tone (short beep). The function keys include programmable function keys and keys to initiate arming and bypassing with one keypress.






### 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.                                     |
|  | The indicator lights when dangerous gases are present including carbon monoxide (NFPA 720). |
|  | The indicator lights when the system has power.   |

### Certifications and approvals

| Region | Certification |  |
|--------|---------------|--|
| USA    | UL            | UL 365 - Police Station Connected Burglar Alarm Units        |
|        | UL            | UL 609 - Standard for Local Burglar 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                |
| Canada | CSFM          | see our website  |
|        | ULC           | CAN/ULC S545 - Residential Fire Warning System Control Units |
|        | ULC           | ULC-ORD C1076 - Proprietary Burglar Alarm Units and Systems  |
|        | 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

| Quant. | Component                 |
|--------|---------------------------|
| 1      | Keypad                    |
| 1      | Hardware pack             |
| 4      | 1k $\Omega$ EOL Resistors |
| 1      | Installation Guide        |

### Technical specifications

#### Properties

|                |   |
|----------------|---|
| Dimensions     | 6.2 in x 4.7 in x 1 in (158 mm x 120 mm x 26 mm)                          |
| Weight         | 11.3 oz (0.32 kg)   |
| Material       | Acrylonitrile butadiene styrene (ABS)<br>Poly(methyl methacrylate) (PMMA) |
| Display window | 2 line display<br>18 characters per line                                  |
| Indicators     | Illuminated keys<br>Status indicators<br>Warning and indicating tones     |
| Inputs         | 4 (four) 1k $\Omega$ supervised inputs                                    |

#### 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)            |
| Mounting considerations | Mount in dry indoor locations.            |

#### Power requirements

|                 |                                |
|-----------------|--------------------------------|
| Current         | Standby: 45 mA<br>Alarm: 85 mA |
| Voltage (input) | 12 VDC nominal                 |

#### Wiring

|                    |  |
|--------------------|--|
| Terminal wire size | 12 AWG to 22 AWG (2.0 mm to 0.65 mm)   |
| SDI2 wiring        | Maximum distance – wire size (unshielded wire only):<br>1000 ft (305 m) – 22 AWG (0.65 mm) |

## Ordering information

### **B921C Two-line Capacitive Keypad with Inputs (SDI2)**

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

Order number **B921C**

### **Accessories**

#### **B56 Keypad Surface Mount Box**

Surface mount box for mounting a keypad to concrete or block.

Order number **B56**

#### **B96 Keypad Trim Bezel**

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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