

D1255/D1255B



Security Systems

EN | Installation Instructions
Keypads

BOSCH

1.0 Description

The D1255/D1255B Keypad is an SDI Bus compatible device used with Bosch Security Systems control panels. The D1255/D1255B features a keypad that illuminates when you press the keys, a 16-character English language display, and a built-in speaker that emits several distinct warning tones.

The D1255/D1255B Keypad is a low profile, surface-mounted unit.

The control panel supplies all power and data requirements for the D1255/D1255B using a simple four-wire connection. For specific control panel compatibility refer to *Table 6* on page 6.

Refer to the *Current Rating Chart for Standby Battery Calculations* provided in the following documentation, based on which control panel connected to the D1255/D1255B Keypad to determine if you need an additional power supply:

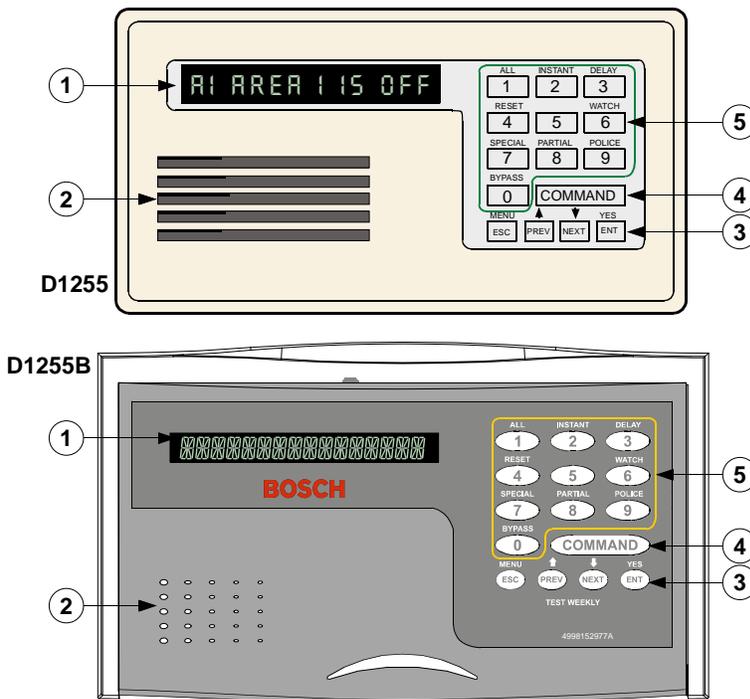
- *D9412G/D7412G Approved Applications Compliance Guide* (P/N: 43494) if using a D9412G or D7412G Control Panel.
- *D7212G Approved Applications Compliance Guide* (P/N: 4998138560) if using a D7212G Control Panel.

Configurations combining supervised and unsupervised keypads are also possible.

You can program the control panel to generate messages to the Central Station identifying the supervised keypad that is in trouble. If a keypad loses communication with the control panel for more than 60 sec, the keypad buzzes and CALL FOR SERVICE displays. The control panel transmits a serial device trouble report to the receiver. The keypad shows SDI FAILURE # if the Modem IIIa² communication format is used or TROUBLE ZN D if the BFSK communication format is used. For more information, refer to the *D6600 Computer Interface Manual* (P/N: 4998122703).

Depending on programming in the control panel, the D1255/D1255B permits remote control of relays and real time clock display; adding, deleting and changing passcodes; system tests, and more. Refer to the *Keypad and User Interface* sections of the *D9412G/D7412G Program Entry Guide* (P/N: 47775) for complete programming details on keypad options. You can initiate a variety of system commands with the touch of two or three keys at the D1255/D1255B keypad. To navigate through the system use the four keys near the bottom of the keypad (*Item 3 in Figure 1*).

Figure 1: D1255/D1255B Layout



- | | | |
|--------------------------|------------------|--------------------|
| 1 - Alphanumeric display | 3- Function Keys | 5 - Digital Keypad |
| 2 - Siren/Speaker | 4 - Command Bar | |

2.0 Digital Keypad

The D1255/D1255B Keypad features a digital keypad for accessing the menus, entering user passcodes and executing system commands in the control panel. As you press keys, the D1255/D1255B emits a muted beep tone (refer to *Section 2.3 Audible Tones*) to indicate that the entry is accepted. The keypad lights when you press keys, and remains lit for 20 sec.

When entering a passcode, press keys within 15 sec of each other. If 15 sec elapse between keystrokes, the entire entry clears, and you must start over. The keypad also "times out" on other functions if you wait 15 sec or more between key presses.

2.1 Keypad Function Keys

The D1255/D1255B has five function keys. These keys control your system.

Key	Description
COMMAND	Use the [COMMAND] bar in combination with one or two numeric keys to perform a function.
ENT/YES	Use the [ENT/YES] key to complete the entry of your passcode at the keypad. The [ENT/YES] key also selects the menu item shown during a menu selection.
PREV	When viewing a list, pressing the [PREV] key returns you to the previously shown item.
NEXT	Press the [NEXT] key to pass over the present item in a menu or list.
MENU/ESC	Use the [ESC/MENU] key to returns to the idle display.

2.2 Display

The D1255/D1255B Keypad displays the latest status conditions of the security system using words, numbers, and symbols in its display. When a series of events occur that affects the system, the D1255/D1255B displays each event in order of its priority.

For a complete listing and description of the D1255/D1255B 16-character displays and command functions available, consult the following documentation:

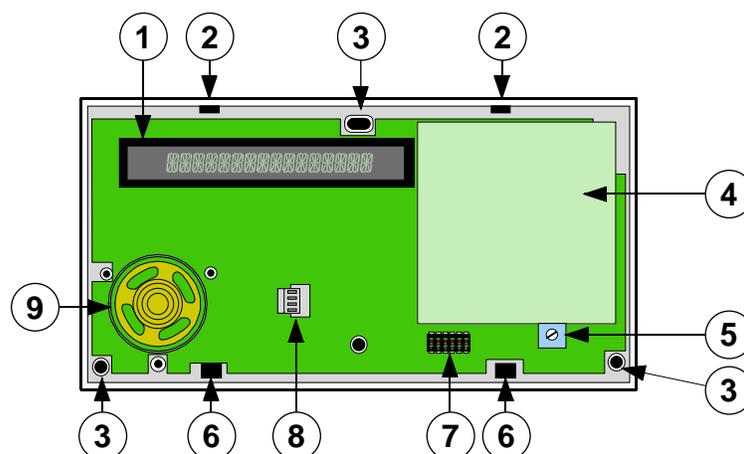
For the D9412G, D7412G, D7212G, D9124, D9412, D9112, D7412, and D7212 Control Panels consult *Security System User's Guide* (P/N: 71-06141-000) and the *D9412G/D7412G Program Entry Guide* (P/N: 47775).

2.3 Audible Tones

The D1255/D1255B Keypad has a built-in speaker that produces several distinct warning tones. The speaker volume is changed by adjusting the potentiometer (refer to *Item 5* in *Figure 2* on page 4). Turn the potentiometer clockwise to increase volume and counterclockwise to decrease volume. The speaker volume also changes as you adjust the brightness of the display. Refer to *Command 49 "Dim Display"* in the *Security System User's Guide* (P/N: 71-06141-000) for more information. You cannot connect external annunciation devices to the D1255/D1255B. The tones in *Table 2* are silenced by entering a programmed passcode with the appropriate authority.

Tone	Description
Burglary Signal	When an area is in alarm, the D1255/D1255B emits a steady, high-pitched "bell" tone.
Entrance Warning	The D1255/D1255B emits an intermittent beep tone during entry delay periods to remind the user to disarm the area. This is a programmable option.
Exit Warning	The D1255/D1255B emits an intermittent beep tone during exit delay and counts down the number of seconds left until arming takes place. This is a programmable option.
Fire Signal	When an area is in fire alarm, the D1255/D1255B emits a pulsed, high-pitched "bell" tone.
Invalid Key Buzz	Pressing an invalid key, or sequence of keys, causes the D1255/D1255B to emit a flat buzz tone.
Keypad Encoding Tone	The D1255/D1255B emits a muted beep tone as each key is pressed to indicate that the entry is accepted. To disable this feature refer to <i>Section 3.3.1 Setting the DIP Switches</i> on page 5.
Trouble Buzzer	When a trouble event occurs, such as a service alert, the D1255/D1255B emits a two tone warble until you enter COMMAND 4.
Watch Tone	When you activate the Watch feature, an intermittent beep tone (the same as the Entrance Warning Signal) alerts the user anytime a watch point is faulted. This option is programmable by point.

Figure 2: D1255/D1255B Internal Features



- | | |
|--|-------------------------------------|
| 1 - 16-Character Display | 6 - Bottom Tab Slot |
| 2 - Top Tab Slot | 7 - Dip Switch |
| 3 - Mounting Hole | 8 - Four-Wire Flying Lead Connector |
| 4 - Keypad | 9 - Speaker |
| 5 - Speaker Volume Control (Potentiometer) | |

3.0 Installation

3.1 Mounting the D1255/D1255B

The D1255/D1255B Keypad can be mounted using the following optional packages:

- D54B Keypad Flush Mount Kit (Brass)
- D54C Keypad Flush Mount Kit (Stainless)
- D55 Keypad Desk Stand - Desktop
- D56 and D56R Keypad Conduit Box

3.1.1 Mounting Locations



Do not mount the keypad in a location where it is exposed to direct sunlight. Direct sunlight can interfere with the D1255/D1255B display screen visibility and damage internal components.

Do not mount the D1255/D1255B in wet or moist locations.

3.2 Wiring

Data and power connections between the control panel and the D1255/D1255B require a four-wire flying lead. The D1255/D1255B includes a wiring assembly consisting of four color-coded flying leads and a female four-pin connector plug at one end.

The maximum recommended wire run for each D1255/D1255B is 2000 ft (610 m) with either 22 AWG (0.8 mm) gauge or 18 AWG (1.2 mm) gauge wire.

To wire the D1255/D1255B:

1. Power down the control panel.
2. Gently push in the two bottom tabs of the D1255/D1255B enclosure cover using a small flat-bladed screwdriver.
3. Lift the D1255/D1255B cover away from the base as the tabs are pushed back.
4. Set the address switches (refer to *Section 3.3.1 Setting the DIP Switches* on page 5).
5. Connect the flying leads of the wiring assembly (provided) to the wires from the control panel (*Table 3*).
6. Turn the keypad over and plug in the wiring connector through the opening in the back of the enclosure base.
7. Mount the keypad base in the desired location.
8. Secure the keypad in place from inside the enclosure base by inserting screws in the mounting holes.
9. Replace the cover by aligning and inserting the top two tabs of the enclosure cover into the top two tab slots of the enclosure base.
10. Hold the top edges of the enclosure cover and base in position.
11. Push the tabs inward.
12. Press the enclosure and cover together until the cover snaps into place.

- Press each key on the keypad toward the top of the keypad to ensure proper alignment and operation of each key through the mating keypad faceplate openings.

Table 3: Wiring Connections

Four-Wire Flying Leads from control panel	D1255/D1255B Flying Leads
DATA BUS B (30)	To Data Out (Green)
DATA BUS A (31)	To Data In (Yellow)
POWER + (32*)	To 12 VDC (Red)
COMMON – (29*)	To Common (Black)

* = only on the D9412G Control Panel

3.3 DIP Switch Settings and Associated Functions

Select the address of each keypad and silence the keypad encoding tone by setting the six-position DIP Switch (refer to *Item 7* in *Figure 2*) located under the D1255/D1255B Keypad cover.

3.3.1 Setting the DIP Switches

Switches 1 through 3 assign the address for the specific keypad. Leave Switches 4 and 6 in the ON position.



For supervised keypads, assign only one keypad to each address. Switch 5 toggles the encoding tone ON and OFF. With the encoding tone turned ON, the keypad sounds a beep every time a key is pressed.

Table 4: Switch Settings

Address #	Switch					
	1	2	3	4	5*	6
1	ON	ON	ON	ON		ON
2	OFF	ON	ON	ON		ON
3	ON	OFF	ON	ON		ON
4	OFF	OFF	ON	ON		ON
5	ON	ON	OFF	ON		ON
6	OFF	ON	OFF	ON		ON
7	ON	OFF	OFF	ON		ON
8	OFF	OFF	OFF	ON		ON

*Encoding Tone ON/OFF.

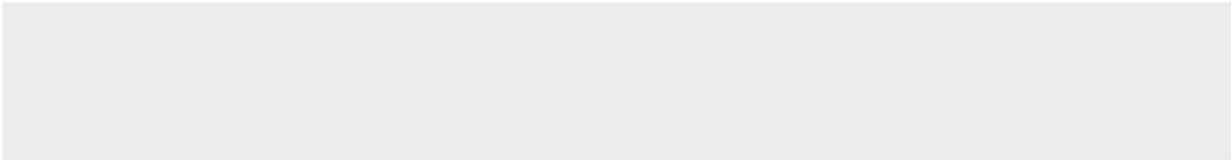
4.0 Specifications

Table 5: D1255/D1255B Specifications

Power	Nominal 12 VDC supplied by the control panel
Current Required	Idle: 104 mA, armed or disarmed. Maximum: 206 mA, with keypad lighted and warning tone ON.
Wiring	Four-wire expansion cable supplies Data In, Data Out, +12 VDC, and Common. Maximum resistance on the conductors connected to SDI BUS A and SDI BUS B is 25 Ω.
Dimensions H x W x D	4.6 in. x 8.1 in. x 0.8 in. (11.6 cm x 20.7 cm x 20.7 cm)
Color	D1255 PMS Warm Gray D1255B White and PMS 429 Gray
Display	16-character vacuum fluorescent display. Each character is a 14-segment unit. Soft blue color.
Operating Temperature	+32°F to +122°F (0°C to +50°C)
Relative Humidity	5% to 85% @ +86°F (+30°C)

Table 6: Control panel compatibility chart

Control panel	Maximum Number of Keypads	
	Supervised	Unsupervised
D9412G	8	32
D7412G	8	32
D7212G	8	32
D9124	8	32
D9412	8	32
D9112	8	32
D7412	8	32
D7212	8	32



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