## **Controls and Displays**

|  | The 9940, 9941 and 9943 keypads have a two line by 20<br>character LCD display that shows "first to alarm" informa-<br>tion, level status, and programming commands. In addition<br>there are three LEDs with the following functions:Sales number<br>Security<br>Environmenta<br>Operating ter |  |   |
|--|---|--|---|
|  | ~   | Glows steadily when mains power is present.<br>Flashes when the system is working from bat-<br>tery backup.  | Humidity<br>Dimensions<br>Weight<br>Current consumption |
|  | $\triangle$   | Glows steadily when the system requires the user to acknowledge an alert.  |   |
|  | *   | Glows steadily if:<br>a) A fault or tamper circuit is active while the<br>system is unset.<br>b) The system needs an engineer or remote<br>reset.<br>c) A telephone line fault is present. |   |
| The 9940 keypad provides the following keys: |   |  |   |
|  | 9 - 0   | Used to key in access codes or select program-<br>ming commands.   | Compliance  |
|  | ~   | Used to enter programming and setting/unset-<br>ting commands.   |   |
|  | ×   | Used to set the system with individual zones (including 24 hour zones) temporarily omitted.  |   |
|  | ABCD  | Level or partition setting keys  | Inputs  |
|  | Alarm fun   | n, some control units may support the Dual Key<br>ction to allow users to start an alarm by pressing<br>ing pairs of keys:   | Name<br>Panic<br>Ext Tamper                             |
|  | 1 + 3   | Panic alarm  | ET  |
|  | 4 + 6   | Medical assistance   | Data, CLK   |
|  |   |  |   |

# **Specifications**

| 9940EN, 9941EN or 9943EN<br>Grade 3<br>Class II<br>-10° to +55°C |
|--|
| 96% RH   |
| 115mm W, 115mm H, 24mm D<br>0.2 kg                               |
| (9940) 30mA max continuous                                       |
| backlight off  |
| 70mA max continuous  |
| backlight on.  |
| (9941) 20mA max continuous                                       |
| backlight off  |
| 60mA max continuous  |
| backlight on.  |
| (9943) 30mA max continuous                                       |
| backlight off.   |
| 70mA continuous backlight on.<br>EN51031-1                       |
| For further detail and   |
| Declaration of Conformity  |
| please go to www.  |
| coopersecurity.co.uk.  |
| CF Telefication  |
| CE reletication  |
| Used For:  |
| External wired DA button   |

| Used For:                       |
|---------------------------------|
| External wired PA button.       |
| External tamper switch or       |
| wiring.                         |
| Exit Terminate button.          |
| Signal from control unit keypad |
| bus.                            |
| DC power supply.                |
|                                 |

# **Compatible Equipment**

12V. 0V

9853, 9851, 9752, 9751, 9651 This product conforms to the EMC (89/336/EEC) and LVD (73/23/EEC) directives. For a full declarations of conformity, please visit www.coopersecurity.co.uk.

# 9940, 9941 and 9943 Keypad Installation Instructions

### Introduction

The 9940, 9941 and 9943 keypads are designed to work with 9853, 9851, 9752, 9751 and 9651 alarm system control units. These keypads are a direct replacement for the 9930, and offers the advantage of smaller size and improved appearance.

The 9940 and 9943 keypada have a proximity tag reader coil fitted inside the case and can work with the same proximity tags as the 934 proximity reader module. The 9941 has no detector coil fitted. The 9943 can also be connected to an external prox reader.

## Installation

To install the keypad:

- 1. Ensure that all power (mains and battery) is removed from the control panel.
- 2. If fitted, remove the two screws located under the bottom edge.
- 3. Separate the cover and back plate of the keypad.
- Mount the keypad using M4/M3.5 screws. Mounting and cable holes on the back plate are shown in Figure 1.
- 5. Connect all required wiring, as shown overleaf.
- 6. Use the links to set the address of the keypad and to make any changes to standard operation.

7. Clip the cover onto the base and refix the screws. Note: The power LED is operated by the control unit and may not be permanently lit. The control unit shows a mains fail condition as an alert on the display.

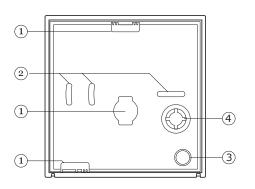
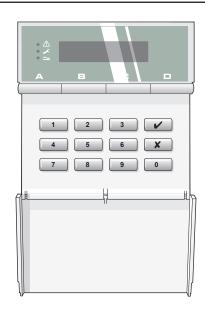


Figure 1: Cable entry (1), mounting holes (2), back tamper aperture (3), sounder aperture (4)



# 9940 Mounting Locations

The 9940 and 9943 keypads contain a coil that detects proximity tags employed by users to set and unset the system. The coil works at a low radio frequency and has a spherical detection area, which extends for approximately 120mm from the keypad. Proximity tags can be detected through wood, brick, plaster, glass and plastic.

Excessive interference with external devices may lead to poor read performance. Follow these simple guidelines to prevent interference:

- Avoid mounting the keypad near magnetic devices, such as motors, door releases, entry phones, loudspeakers and PA systems.
- Avoid microwave devices such as ovens or detectors.
- Avoid mounting the keypad near large metal structures. Do not screw the keypad to a metal frame.
- Do not mount two readers back to back, even if there is a wall between them. This also applies to the AX10 reader: do not mount the 9943 back to back with the AX10.
- Warn users that holding a mobile phone in the same hand as a tag may seriously affect the reading performance.

If you are in doubt, test the operation of the keypad before finally fixing it in position.

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Fire alarm

7 + 9

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Cooper Security Ltd., Security House, Vantage Point Business Village, Mitcheldean, Gloucestershire, GL17 0SZ England

www.coopersecurity.co.uk

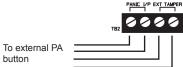
Product Support (UK) Tel: +44 (0)870 7575400 Available between: 08:15 and 17:00 Monday to Friday Product Support Fax: +44 (0)1594 545401.

Part No. 11815702 issue 1.

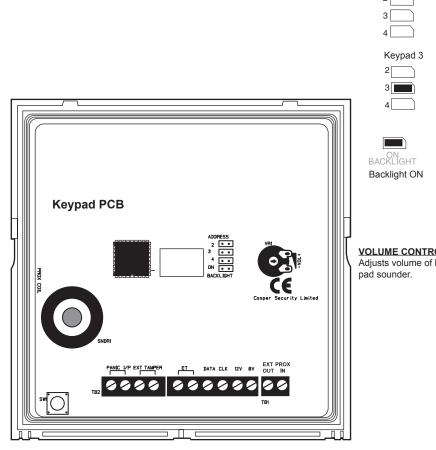
4th December 2007



# **External Panic Attack Button**



If the panic attack does not contain a tamper switch, link the pair of "EXT TAMPER" terminals. Separately link both pairs of terminals if no panic button is used.



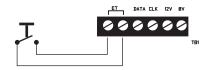
# Keypad 1 Keypad 2 ADDRESS 2 2 3 Keypad 4 2 3 BACK LIGHT ON BACKLIGHT Backlight OFF seconds. **VOLUME CONTROL** Adjusts volume of key-

Set the address of the keypad to 2, 3 or 4 by fitting the jumper across the appropriate link. Leave the link off to set the address to 1. No two keypads may have the same address. Re-apply power after changing the address.

Jumper not fitted (default) - Display and keypad back lights are normally off. When a key is pressed, the lights will switch on at full brightness for 5

Jumper fitted – Display and keypad back lights are permanently on.

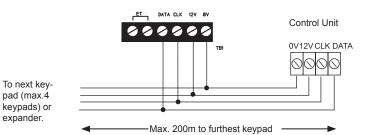
# Lockswitch/ET button Wiring



Lock Switch OR Exit terminate button (NO, push to make)

### **Keypad Wiring**

expander.



Cooper Security recommend that you use 8-core 7/0.2 or 16/0.2 alarm cable for wiring keypads

You can connect the keypads in either a star or bus configuration. If you are intending to use long cable runs then Cooper Security recommend that you use star wiring with no more than 200m of cable per branch.

# **External Prox Wiring (9943 only)**

Connect AX10 proximity reader to this terminal as shown.

