

# EURO mini

## Installation Manual



**Castle**

CE



RINS1211-9



---

<b><i>System Overview</i></b>	<b>4</b>
<b><i>Technical Specification</i></b>	<b>5</b>
<b><i>Overview</i></b>	<b>6</b>
The Control Panel	6
The Printed Circuit Board	7
The Tamper Spring and Connections	8
<b><i>Connections</i></b>	<b>9</b>
Transformer / Battery Connection	9
Keypad Connection	10
Reader Connection	11
External Reader Connection	12
Double Pole - Alarm Connections	13
Double Pole - Tamper Connections	13
DEOL: 4K7 Alarm, 2K2 Tamper	14
DEOL: 4K7 Alarm, 4K7 Tamper	14
Siren Connection	15
Speaker Connection	15
Output Connection/Example	16
<b><i>Compliance Statement and Warranty</i></b>	<b>17</b>
Compliance Statement	17
Warranty	17
<b><i>Input Table Appendix</i></b>	<b>18</b>

---

# System Overview

<b>Inputs on main control panel</b>	10 fully programmable inputs
<b>Input configuration</b>	Double end of line (4K7 Alarm, 2K2 Tamper) Double end of line (4K7 Alarm, 4K7 Tamper) Double Pole
<b>Input Types</b>	Unused, Fire, Hold Up, 24 Hour, Intruder, Final Exit, Entry Route, ER (FX in part), FX (ER in part), Keyswitch Latched, Keyswitch Pulsed
<b>Programmable Outputs</b>	PGM, Bell, Strobe + 4 Outputs on Inputs 7,8,9 and 10 (programmed either as an input or output)
<b>Output Types</b>	Not Used, Fire, Hold Up Any, Intruder Any, Tamper Any, Set Fail, Entry Deviation, Siren Any, Strobe Any, Exit Starts Any, Final Set Any, Strobe Set Fail, Keyswitch Unset, Entry/Exit, Lights, Restore 1, Restore 2, PIR Latch 1, PIR Latch 2, Mains Good, Detr Indn Enable, Follow Test, Off During Test, Detr Walk Test, Mains Fail, Battery Fault, Low Volts, Global Fault 1, Global Fault 2, Engineer Access
<b>Keypad</b>	Contemporary LCD Keypad 32 Character
<b>Number of Keypads</b>	4
<b>Arming Options</b>	Timed, Final Door, Timed/Final
<b>User Codes</b>	30 user codes, 1 Master Manager, 1 Engineer
<b>Logs</b>	500 Mandatory, 200 Optional
<b>Fuses</b>	AUX, Bell, RS485 Bus, Battery
<b>Tampers</b>	Case Tamper and Siren Tamper

# Technical Specification

<b>Electrical Specification</b>	
<b>Supply Voltage (A.C.)</b>	18VAC Nominal (+-20%), 50Hz (+-10%)
<b>Supply Voltage (D.C.)</b>	12VDC Nominal (10-15 Volt DC Range)
<b>Power Supply</b>	1A Regulated
<b>Supply Current</b>	<80mA Quiescent (DC supply, no active outputs)
<b>Internal battery charger</b>	800mA continuous, 13.68V nominal (fold-back current limited)
<b>Battery supply protection</b>	Reverse polarity protected
<b>Battery final disconnect voltage</b>	10.5V
<b>Zone inputs</b>	0-20V, normally closed, normally open, double balanced circuits
<b>PGM/SAB outputs</b>	Switched negative 1Ah (max)
<b>Shared PGM outputs</b>	Switched negative 50mA (max)
<b>SAB/AUX supply fuses</b>	800mA quick-blow
<b>Battery reverse protection fuse</b>	1.6A slow-blow
<b>Mains Fuse</b>	Mains Fuse - Anti-Surge 315mA

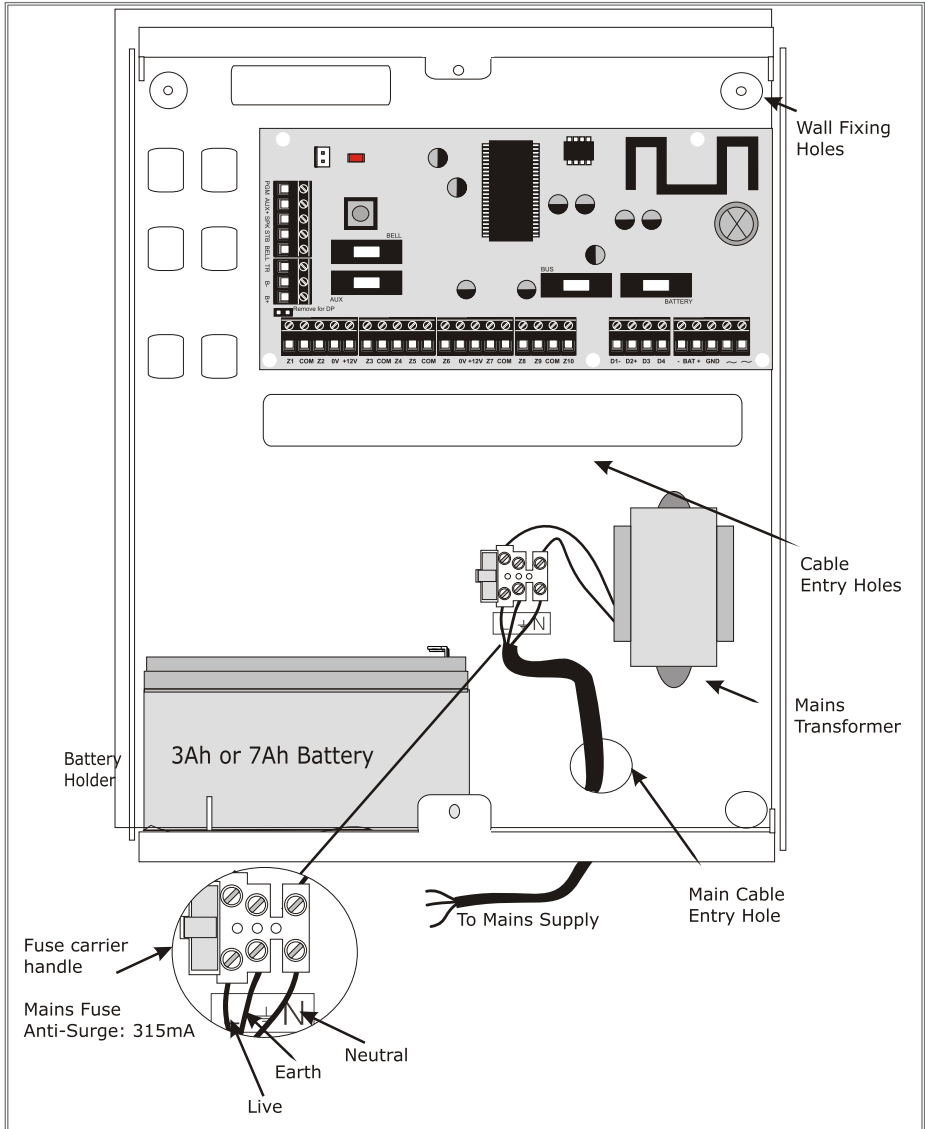
<b>Physical/Mechanical Specification</b>	
<b>Dimensions</b>	250 x 297 x 82mm
<b>Weight</b>	3.07 kilos

<b>Environmental Specification</b>	
<b>Operational temperature range</b>	-20°C to +60°C
<b>Storage temperature range</b>	-20°C to +60°C

Battery recommend 3Ah or 7Ah (Max)

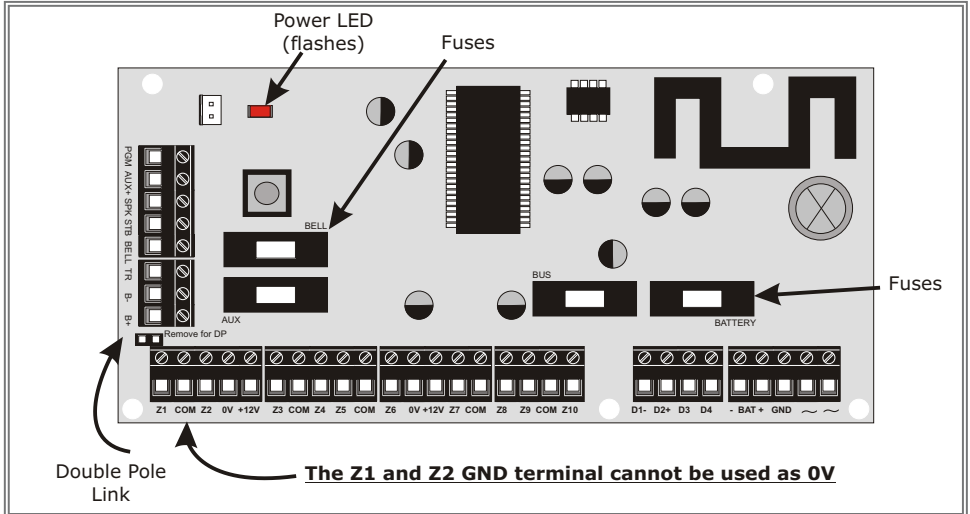
The EURO mini is already fully assembled in a metal case. The diagram below shows a basic overview of the different components.

### The Control Panel



The EURO mini printed circuit board is as follows:

### The Printed Circuit Board

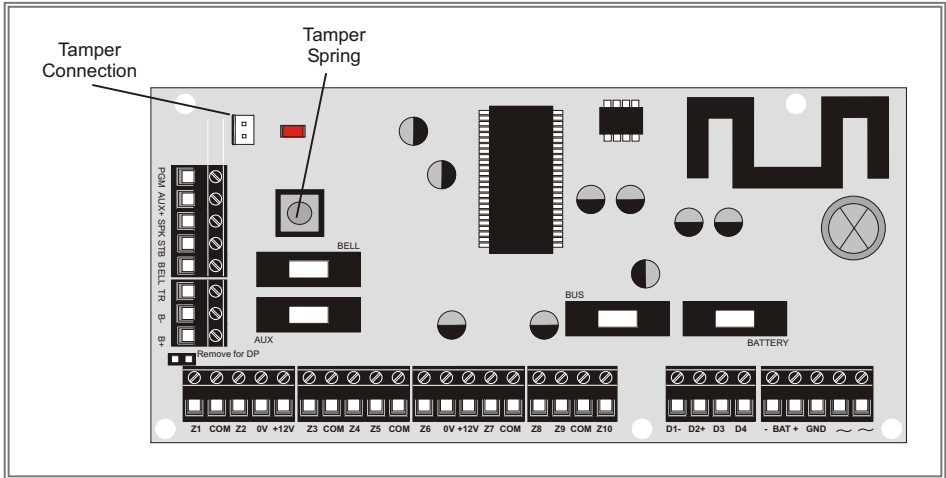


PGM	Output 1	Z6	Input 6
AUX+	+12V Supply	0V	0V/Common
SPK	Speaker Output	+12V	+12V Supply
STB	Output 2	Z7	Input 7 / Output 4
BELL	Output 3	COM	0V/Common
TR	Siren Tamper Return	Z8	Input 8 / Output 5
B-	0V	Z9	Input 9 / Output 6
B+	+12V Supply	COM	0V/Common
Z1	Input 1	Z10	Input 10 / Output 7
COM	<b>Common Only</b>	D1-	RS485 Bus: 0V
Z2	Input 2	D2+	RS485 Bus: +12V
0V	0V/Common	D3	RS485 Bus: Data A
+12V	+12V Supply	D4	RS485 Bus: Data B
Z3	Input 3	-BAT	Battery Negative
COM	0V/Common	BAT+	Battery Positive
Z4	Input 4	GND	Earth
Z5	Input 5	~	17V Input
COM	0V/Common	~	17V Input

The EURO mini printed circuit board is protected by a metal casing. The lid is tampered by a spring that is connected to the printed circuit board.

To disable the tamper spring, simply link out the tamper connections shown below.

### The Tamper Spring and Connections

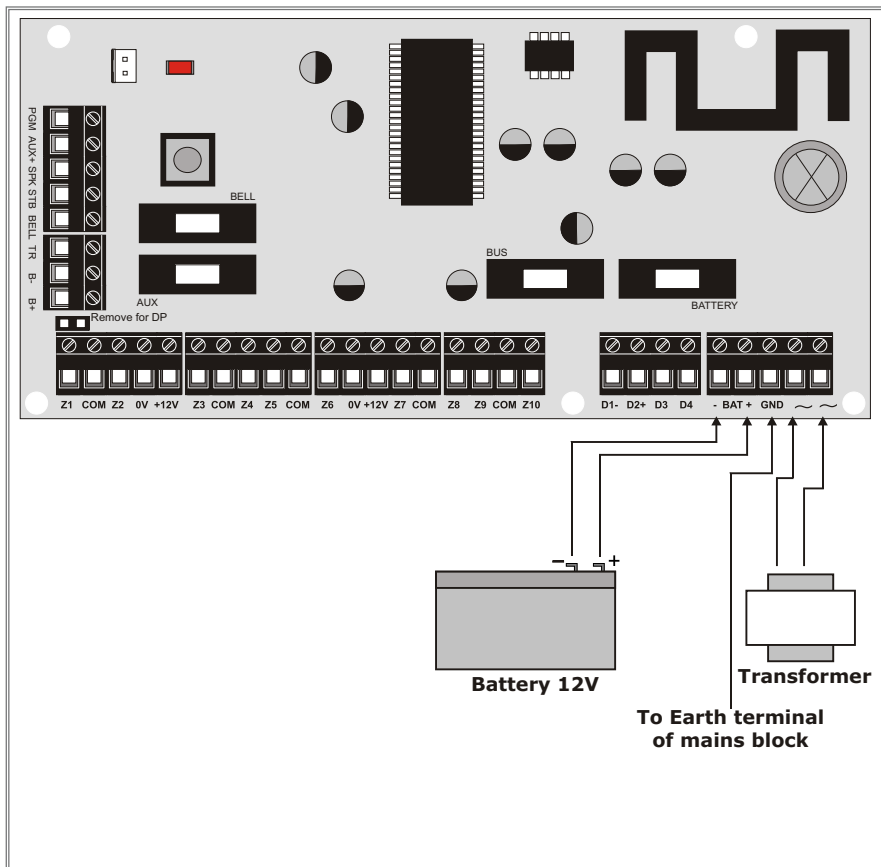




The transformer will be factory fitted to the connections shown below on the EURO mini.

It is recommended that a 3Ah or 7Ah battery should be used on the EURO mini. This connects to the Battery positive and negative terminals.

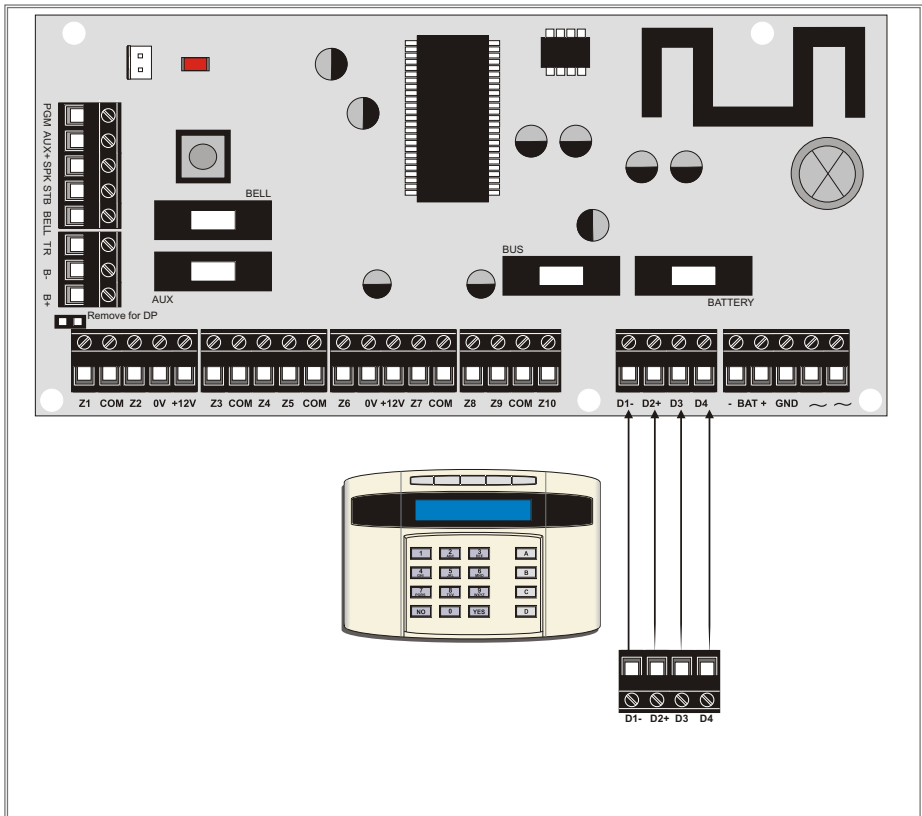
## Transformer / Battery Connection



A maximum of 4 keypads may be installed to the EURO mini. Each keypad (EUR-068 or EUR-069) connects to the RS485 terminal: D1-, D2+, D3 and D4.

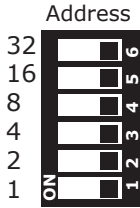
Each keypad must be individually addressed, starting with 00. To do this, press and hold the 'D' key, until 'KEYPAD CODE' is displayed. Enter '2000' and select the appropriate address. Press the 'YES' key to change any other required options, and the 'A' key to save the data.

## Keypad Connection



A maximum of 3 readers may be installed to the EURO mini if the EUR-068 is installed. Each connect to the RS485 terminal: D1-, D2+, D3 and D4.

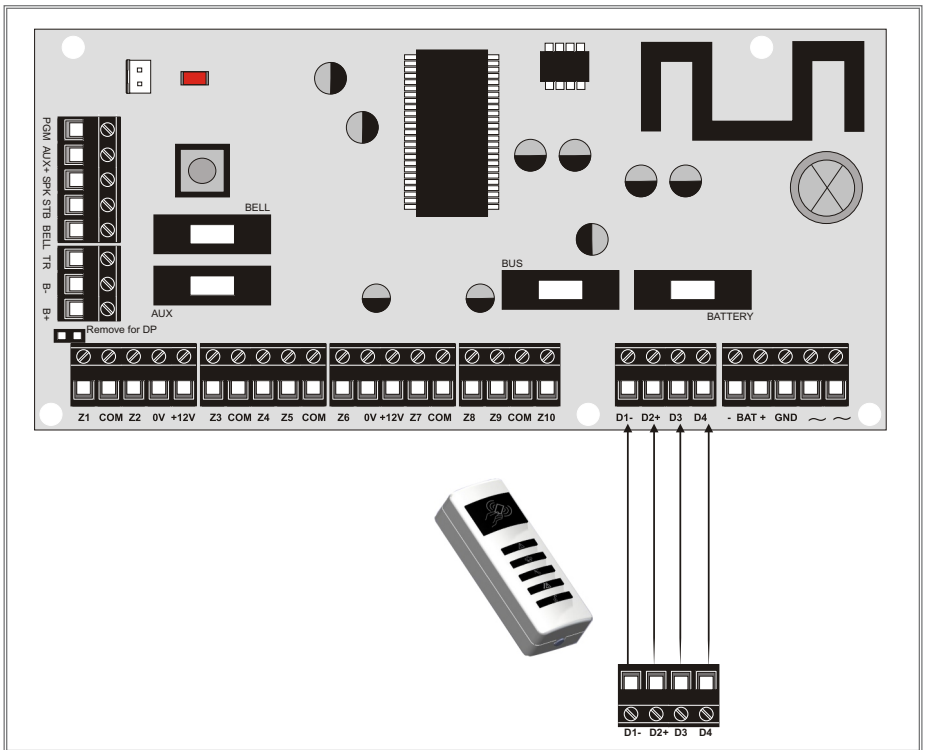
Each reader must be individually addressed, starting with 01. To do this, there are dip switches on the back of the reader.



To address the reader as 02 for example, dip switch "2" must be selected to the right (towards the address number)

To address the reader as 01 for example, dip switch "1" must be selected to the right (towards the address number)

## Reader Connection

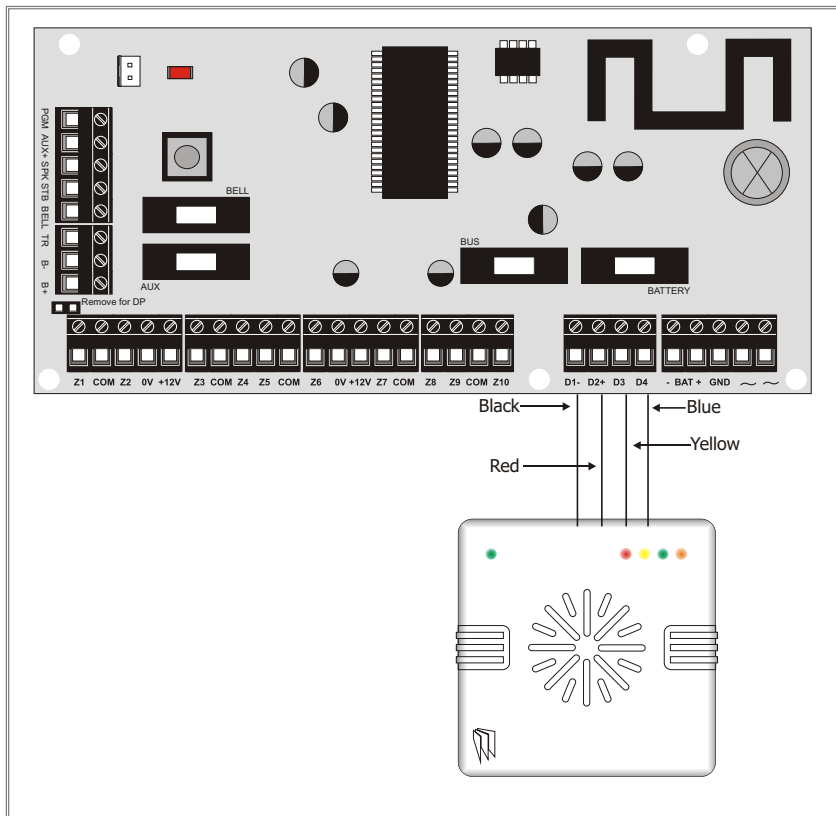


A maximum of 3 readers may be installed to the EURO mini if the EUR-068 is installed. Each connect to the RS485 terminal: D1-, D2+, D3 and D4.

Each reader must be individually addressed, starting with 01. To do this, certain cables need to be connected to a negative:

Address	Brown Cable	Orange Cable	Green Cable
1	GND (0V)	GND (0V)	Not Used
2	GND (0V)	GND (0V)	GND (0V)
3	GND (0V)	Not Used	Not Used

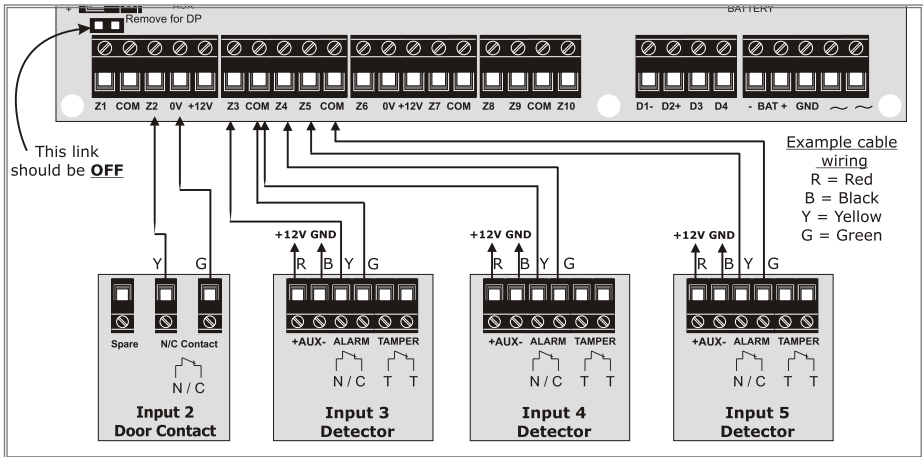
### External Reader Connection



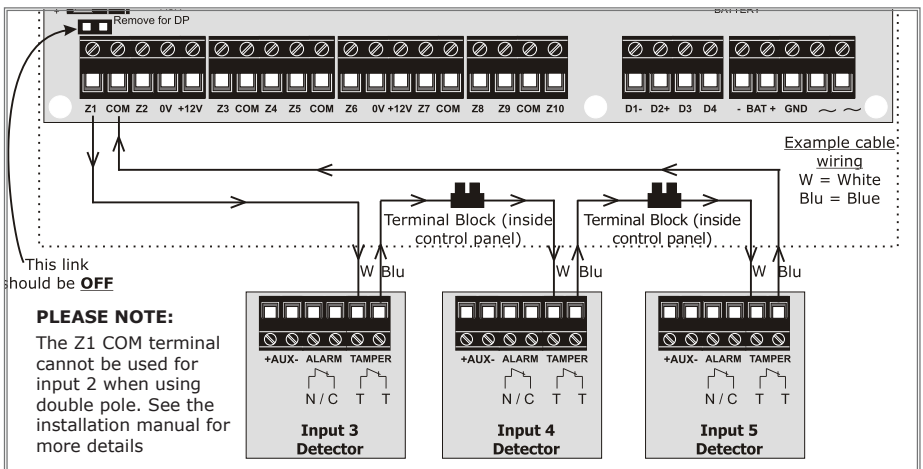
If double pole is used, the link above input 1 (shown below) needs to be open. Double pole requires no resistors, but it requires a dedicated tamper circuit (When a clean start 2002 is performed, input 1 is defaulted as tamper).

The first diagram below shows the connection of door contacts/detectors to the EURO mini, the second diagram shows how the tamper circuits of each detector should be connected. The diagrams are split for clearer wiring connections. Please note that any 'terminal blocks' used should be located inside the control panel.

### Double Pole - Alarm Connections

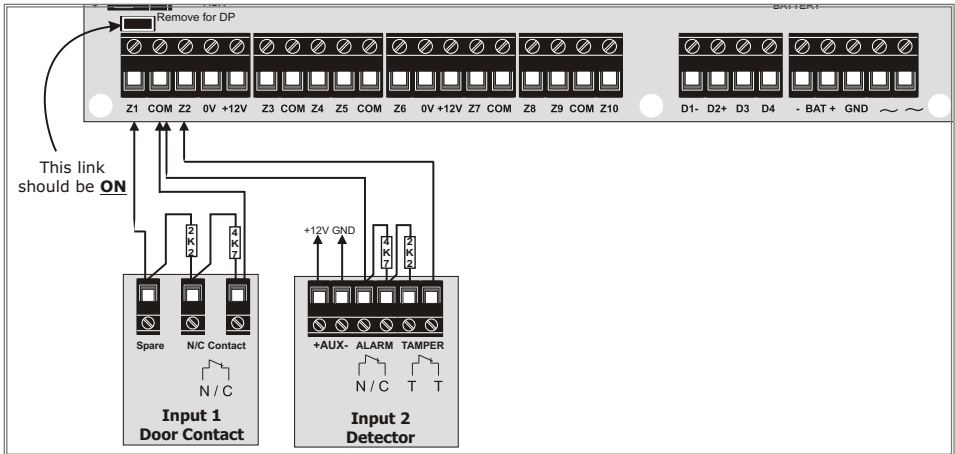


### Double Pole - Tamper Connections

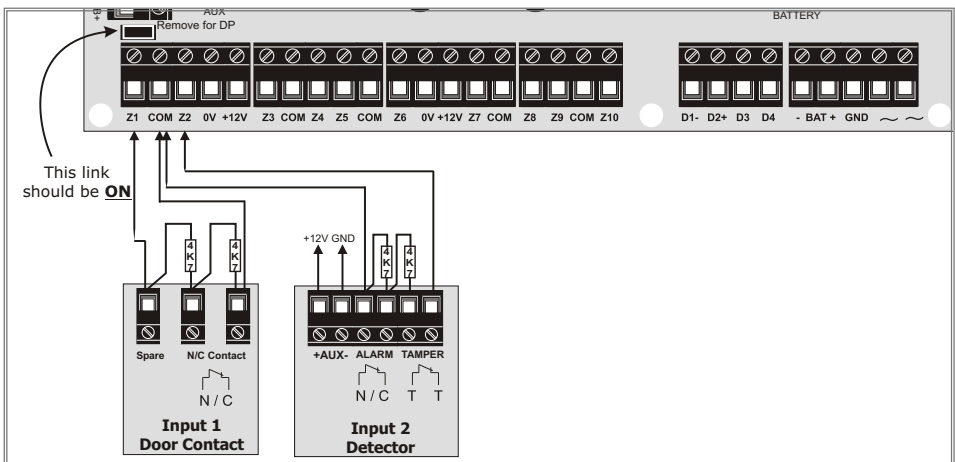


If double end of line is used, the link above input 1 (shown below) needs to be closed, and specific resistors need to be used depending on which mode is selected (see Choose Mode in the programming manual). There are 2 choices:

**DEOL: 4K7 Alarm, 2K2 Tamper**



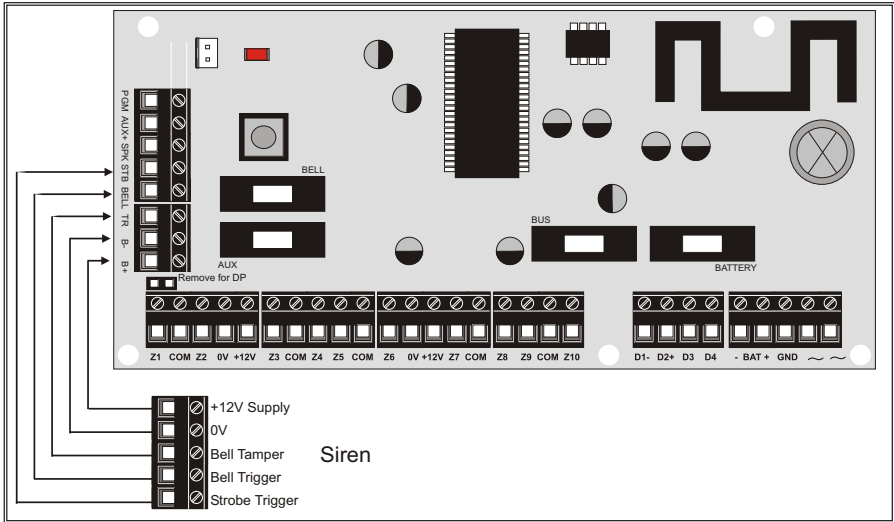
**DEOL: 4K7 Alarm, 4K7 Tamper**



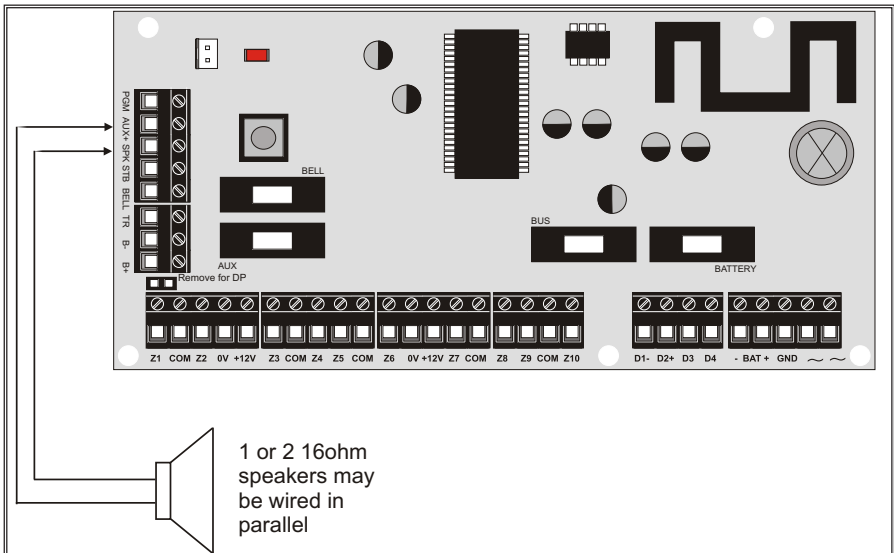
The connections for a +12V Siren are described below, at default all outputs are negative applied and this cannot be altered.

There is also a connection for 1 or 2 16ohm speakers, which will follow the keypad sounds.

### Siren Connection



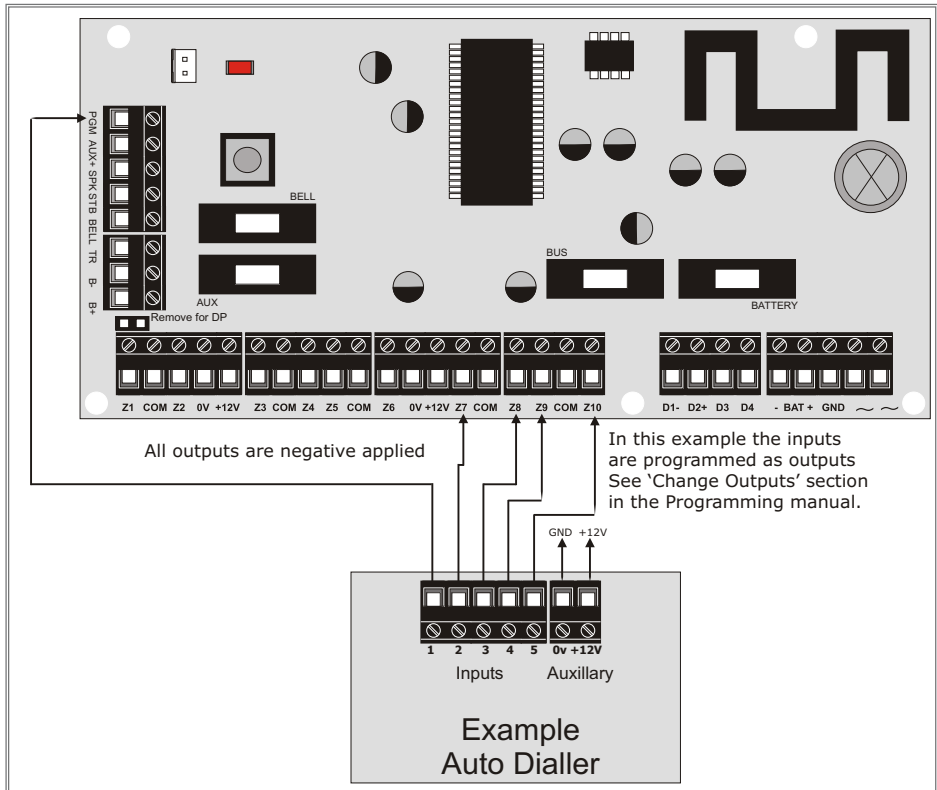
### Speaker Connection



The EURO mini supports up to 7 outputs. 4 of the outputs are shared with inputs on the system, therefore if the outputs are used (see Change Outputs in the programming manual), inputs 7 to 10 become disabled. All outputs on the system are negative applied and cannot be altered.

The example below shows how to connect a typical 12V dialler.

### Output Connection/Example





## **Compliance Statement**

The EURO mini complies with the requirements of the EMC Directive (2004/108/EC) and the Low Voltage Directive (2006/95/EC).

The EURO mini complies with EN50131-3:2009

Suitable for use in systems installed to PD6662:2010 at security grade 1 or 2X and environmental class 2.



**EN50131-3:2009**

**EN50131-1:2006+A1:2009**

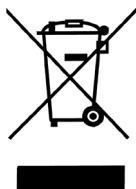
**PD6662:2010**

Security Grade 2x

Environmental Class 2

## **Warranty**

This product is sold subject to our standard warranty conditions and is warranted against defects in workmanship for a period of 2 years. In the interest of continuing improvement of quality, customer care and design, Pyronix Ltd reserves the right to amend specifications without giving prior notice.



For electrical products sold within the European Community. At the end of the electrical products life, it should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice in your country.

# Input Table Appendix

<b><i>Input Number</i></b>	<b><i>Input Type</i></b>	<b><i>Input Areas</i></b>	<b><i>Description</i></b>
<b>1</b>			
<b>2</b>			
<b>3</b>			
<b>4</b>			
<b>5</b>			
<b>6</b>			
<b>7</b>			
<b>8</b>			
<b>9</b>			
<b>10</b>			



# Contact Details

**Castle**  
Secure House  
Braithwell Way  
Hellaby  
Rotherham  
S66 8QY

**Customer Support:**  
+44(0)845 6434 999 (local rate)  
Or telephone: +44(0)1709 535225

**Opening Hours:**  
8.00am - 6.30pm  
Monday to Friday

**E-mail:**  
[support@castle-caretech.com](mailto:support@castle-caretech.com)

**Website:**  
[www.castle-caretech.com](http://www.castle-caretech.com)

