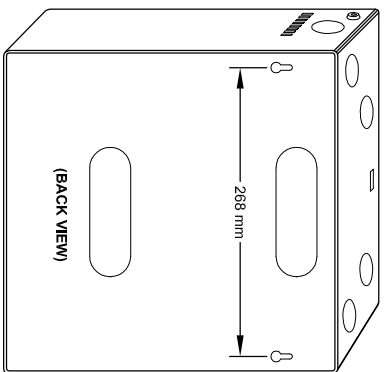
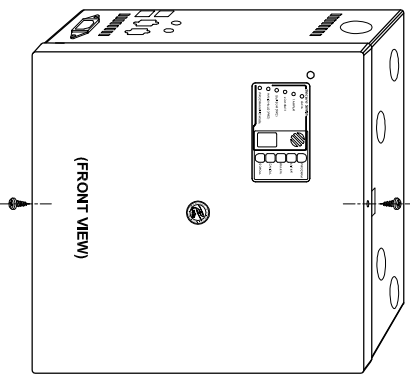


Quick Installation Guide

1 Installing the Main Panel



IMPORTANT — If you are using wireless system, please do not install the main control unit in a concealed location.

2 Wiring Requirement

- Minimum Requirement (Wired System)**
- 1) AC power source (AC 110V ~ 240V 50/60Hz)
 - 2) Telephone line

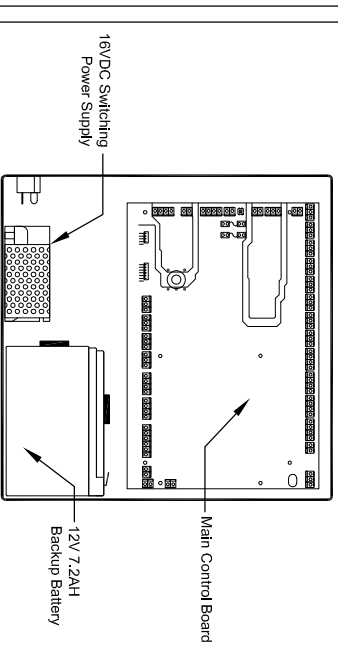
Computer/CCTV Output Connectivity

- 1) RS232 (4 core alarm cable)
- 2) Camera output (Co-axial cable)

Alarm & Automation wires

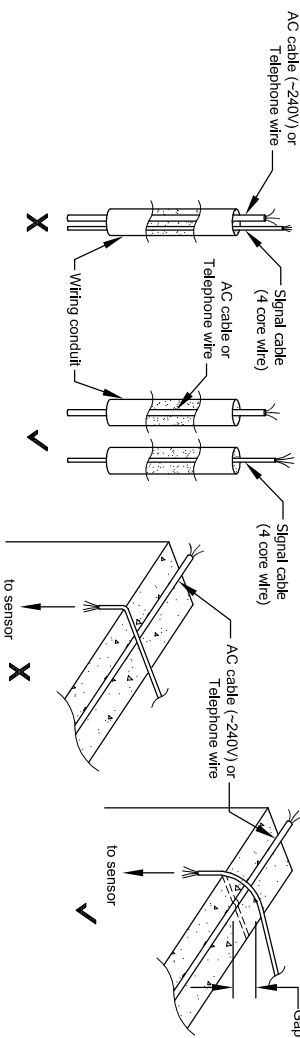
- 1) Siren & strobe light
- 2) Security zone cable
- 3) Other application (Bell, auto gate or etc..)

3 Internal Arrangement Diagram

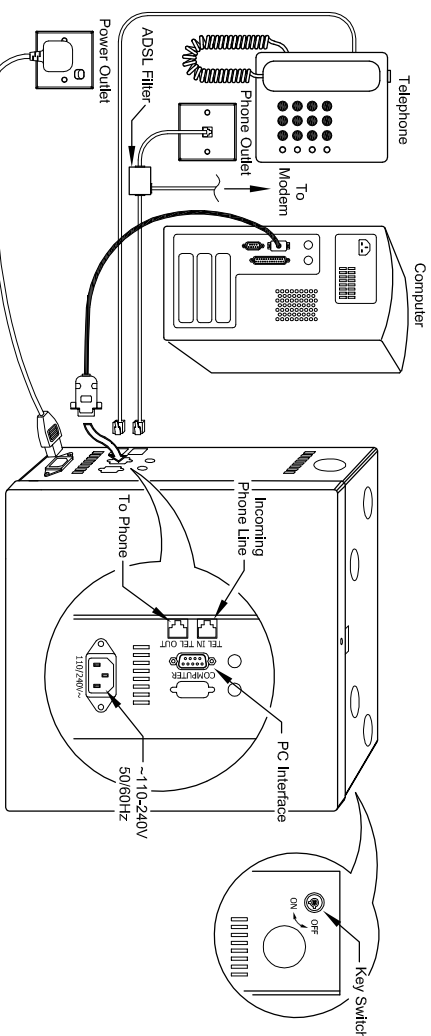


WARNING

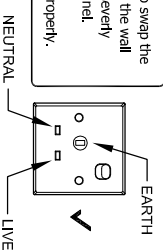
Do not house the AC wire(s) and signal wire(s) (zone wired, keypad wired, siren wired, RS232 wired or etc) in the same tube. The electro magnetic interference may cause the zone(s) to false trigger and damage the Main Control Panel.



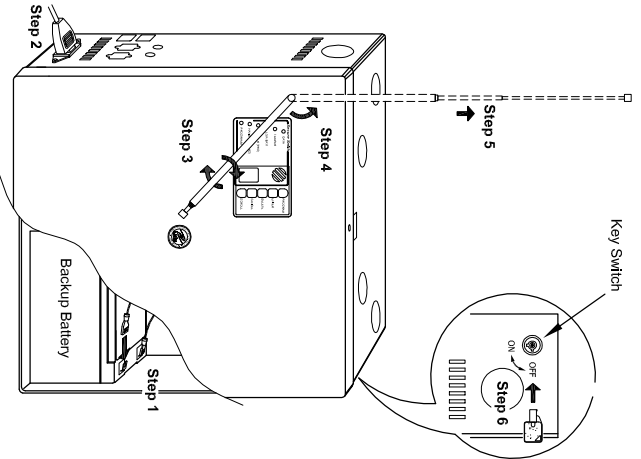
4 Main Control Unit Outline Connection



WARNING
Please take extra care not to swap the LIVE & NEUTRAL, point from the wall power outlet. Doing so will severely damage the Main Control Panel. Earth cable must be provided properly.



5 Turn On Main Control Unit



6 Technical Data

Power & General

Input power	Approximate 16V DC Regulated
Current consumption	150mA
Maximum power output (Include siren, strobe light and 12 VDC output)	12VDC 1000mA
Backup battery	12V 7.2AH
Operation temperature	0°C ~ 50°C
Voltage surge protection	Telephone & power (275V RMS voltage clamping)

Power Line Carrier (PLC) Automation Module

Maximum automation unique ID	3839
PLC transmission distance	250 Meters
PLC transmission frequency	250KHz
PLC transmission method	Pulse code modulation over power line (PCM over PLC)

Camera Module

Maximum camera channel input	8
Camera input sensitivity	1 V Peak to Peak
Video output	1 analog output SECAM, NTSC, PAL (Colour OR B/W)

DRF Transmitter

Maximum of wireless transmitter	128 units
Cover Distance	60M (Line of Sight)
Digital radio frequency (D-RF)	320 MHz

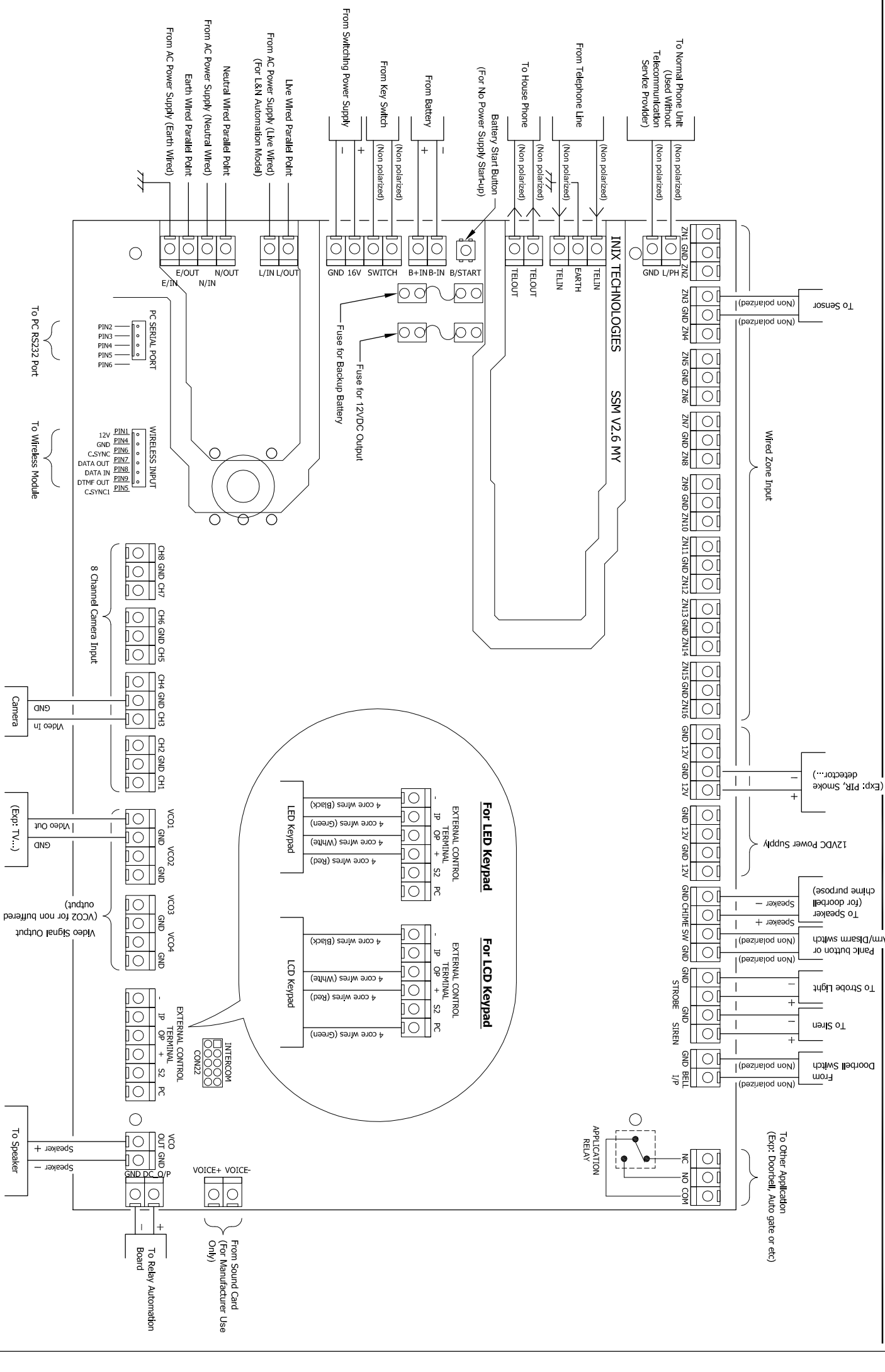
Wired Security Zone

Maximum wired security zone	8 / 16
Wired security detection system	Open short or voltage level detection
Wired sensor logic	Normal open or Normal close

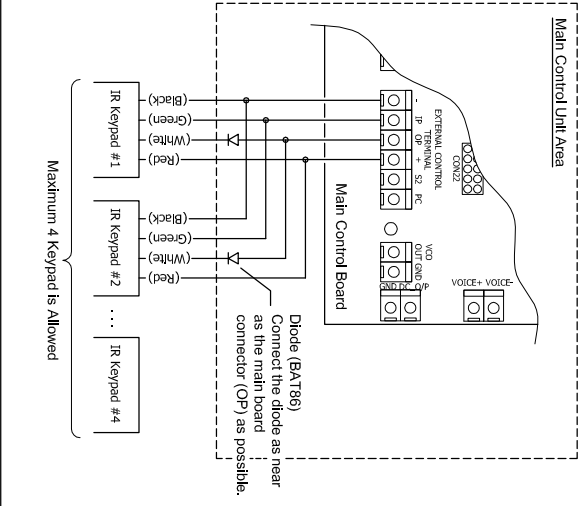
Other

Capture interval	20ms
Dialling method	DTMF tone or pulse dial
Maximum Expansion Module Support (Keypad, Proximity Card Reader, Wired Expansion Module...)	4
PC Link up Interface	RS232

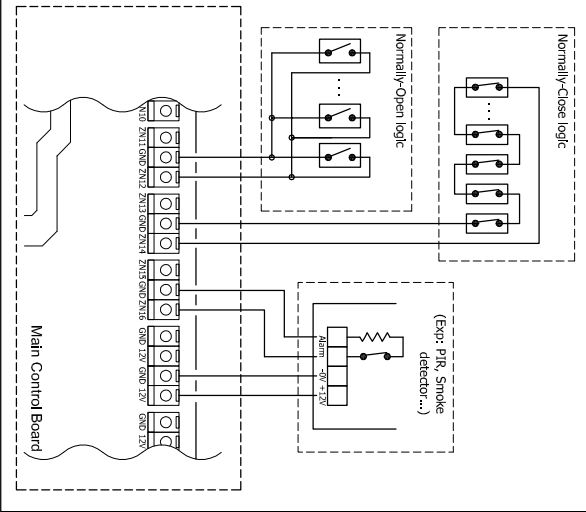
7 Main Control Unit Connector Pin-out



8 Connecting IR Keypad



9 Connecting Security Zone



11 Register Wireless Transmitter to Wireless Module

Step 1: Enter PROGRAMMING MODE

Step 2: Choose zone number

Step 3: Trigger the transmitter sensor

Step 4: Save transmitter

Step 5: Exit PROGRAMMING MODE

TIP: Press & hold until the PROGRAMMING MODE LED is light on.

TIP: The dot is used to indicate +10 digit. (Exp: 2 = 12)

TIP: Press & hold until the PROGRAMMING MODE LED is light on.

TIP: LED will light up if the signal is receive from sensor.

TIP: To discard the currently captured signal please press the "CANCEL" button.

TIP: Knock the vibration or release the magnetic to trigger the transmitter.

TIP: To continue registration for the other transmitter, kindly repeat Step 2. You may register more than one transmitters per zone.

Indicator	Description
0	Remote fob
1-6	Wireless Zone 1 to zone 16
7	Wireless Doorbell
8	Wireless phone monitor

10 To Initiate (Reset) The DRF Wireless Transmitter

Step 1: Open up the cover

Step 2: Put in battery (23A type)

IMPORTANT: It is advised to replace the battery at least once a year.

Step 3: Press RESET button to initialize the Transmitter

Step 4: Calibrate Transmitter Sensitivity (Vibration type only)

Step 4A: LED light on (Waiting for CALIBRATE)

Step 4B: Knock the vibration by hard or soft for assign the sensitivity level

TIP: VIBRATION TYPE ONLY, during initializing period (indicated by a light on green LED), you may knock the vibration sensor for the sensitivity calibration. To recalibrate the sensitivity you may repeat Step 3.

12 Delete Wireless Transmitter from Wireless Module

Step 1: Enter PROGRAMMING MODE

Step 2: Choose zone number

Step 3: Delete transmitter in this zone

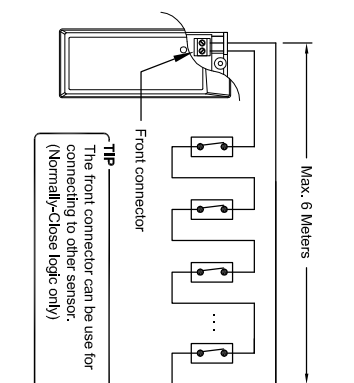
Step 4: Exit PROGRAMMING MODE

TIP: Press & hold until the PROGRAMMING MODE LED is light on.

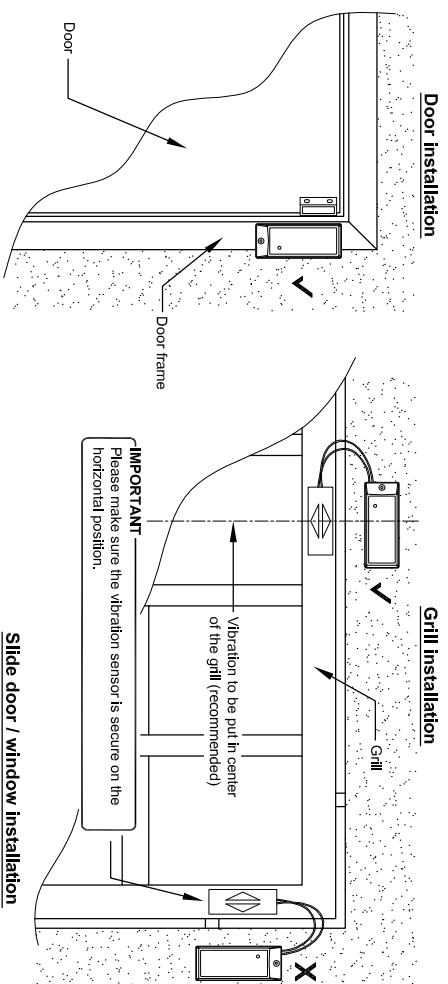
TIP: Press to scroll until the Zone number you want to delete.

TIP: Once you delete the particular zone, all the transmitter registered in the zone will be delete as well.

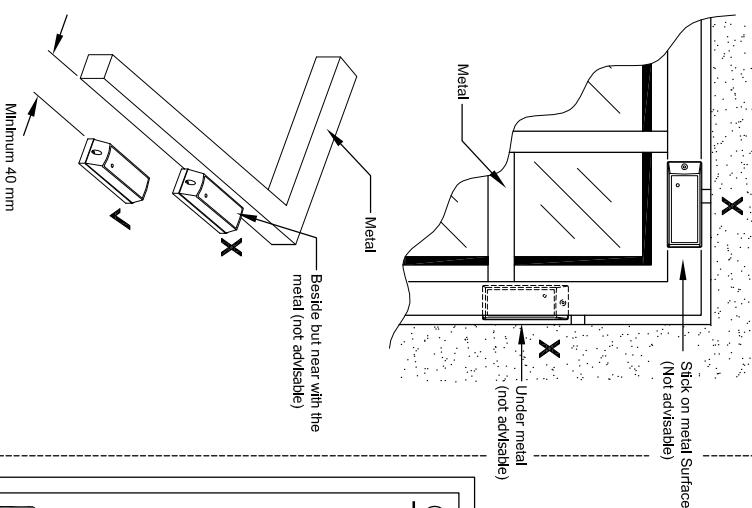
13 Front Connector of Transmitter



14 Installing Transmitter & Sensor

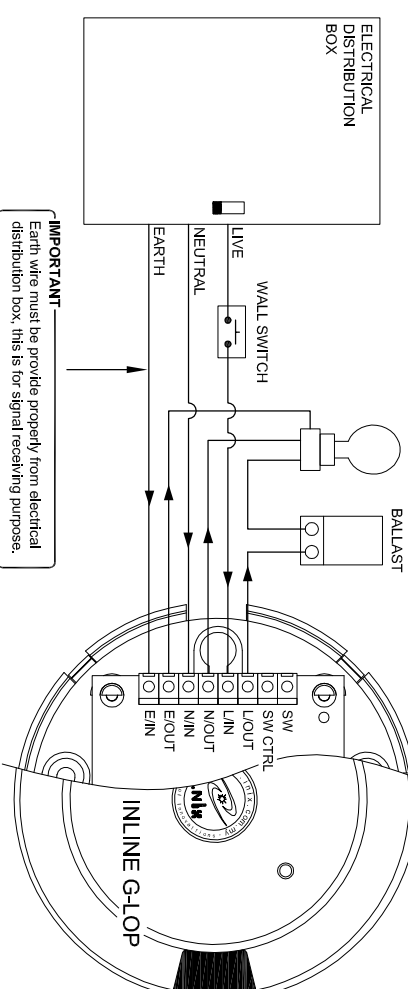


IMPORTANT User are strongly advised not to install the transmitter near any metallic material or in any metallic enclosed environment. These environment/space will greatly reduce the effectiveness of the transmitter.

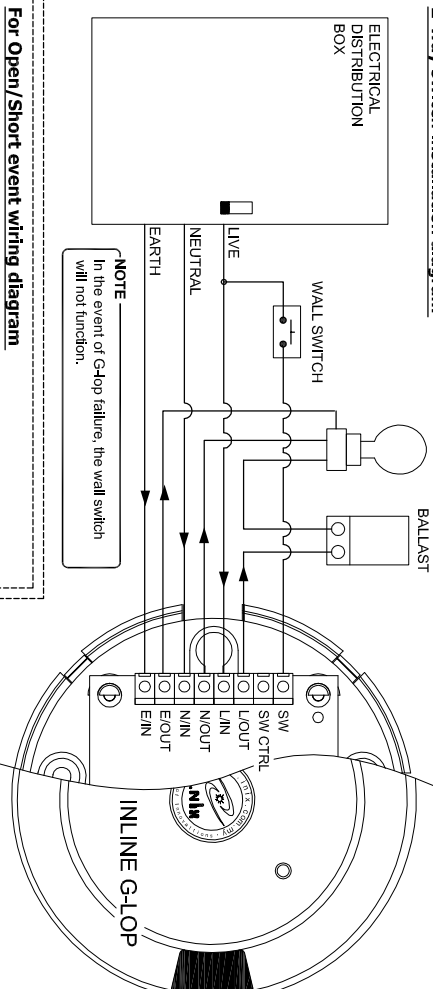


16 G-lop Wiring Diagram

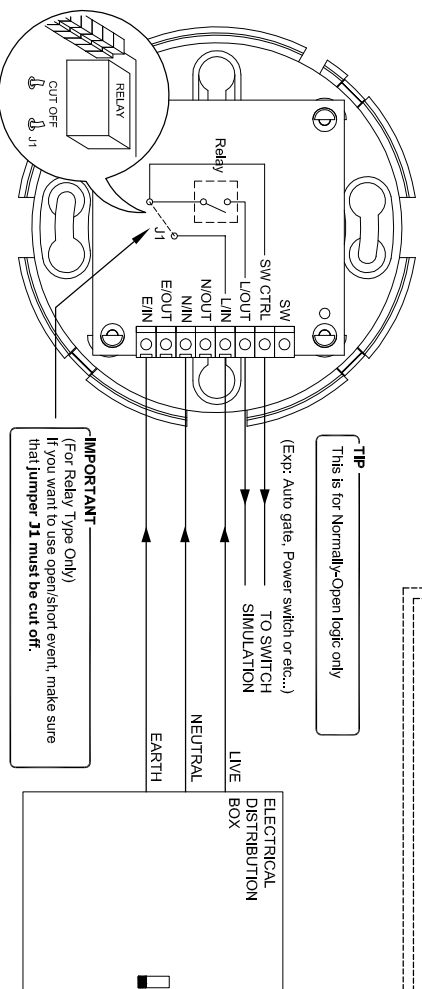
1-way installation diagram



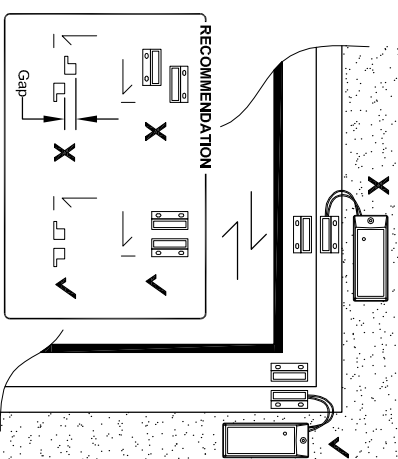
2-way switch installation diagram



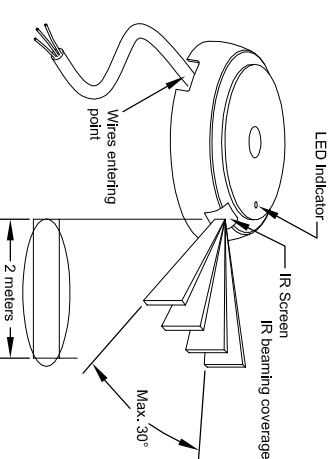
For Open/Short event wiring diagram



15 Introduction Inline G-lop



LED Indicator

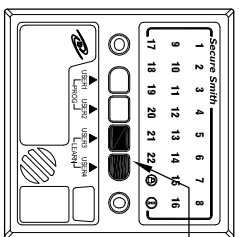


Note To assign ID for G-lop, kindly refer to section(8) (Assign ID for G-lop)

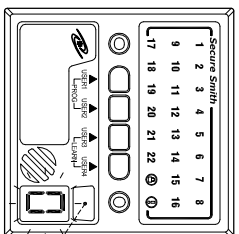
17 IR Keypad

Learn IR signal from your own IR remote control

Step 1: Activate learning mode

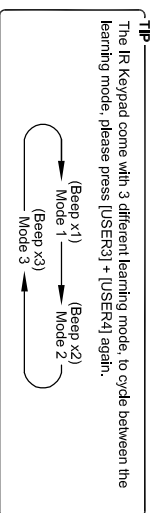


Press [USER3] + [USER4] together with short press activate LEARN mode



Step 2: Point the IR remote control (TV, DVD remote or etc.) to the IR keypad and enter the key follow by the number indicator. (From '0' to 'C')

Indicator	Description
0~9	Numerical key
*	Asterisk (*) key
#	Hash (#) key
C	Camera key

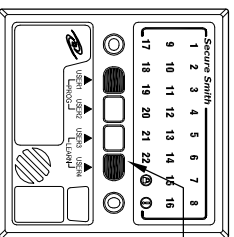


TIP
The IR Keypad come with 3 different learning mode, to cycle between the learning mode, please press [USER3] + [USER4] again.

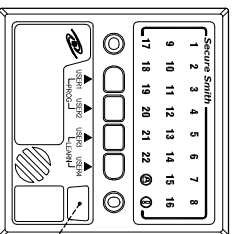
Assign ID for IR Keypad

If you have more than one IR Keypad installed, you need to assign individual ID for each of the IR keypad.

Step 1: Login setting mode.



Press [USER1] & [USER4] together with short press to login Setting Mode.



Step 2: Enter login password (Default: 1234).

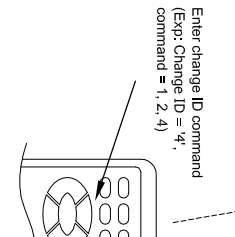
Enter password to login Setting Mode (Default password is 1,2,3,4)

Step 3: Upon successful login, indicator by the rapid blinking, enter the command below to assign the ID for the particular keypad.

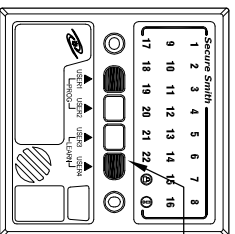
Command: [1], [2], [ID] & [Save]
Exp: 1) To assign ID = 4 to IR Keypad
Command = [1], [2], [4]
2) To assign ID = 1 to IR Keypad
Command = [1], [2], [1]

The indicator will blink rapidly if the login password is accepted.

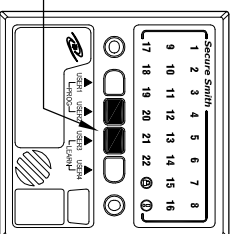
Step 4: Save setting.



Enter change ID command (Exp: Change ID = '4', command = 1, 2, 4)



Press [USER1] & [USER4] together with short press to Save.

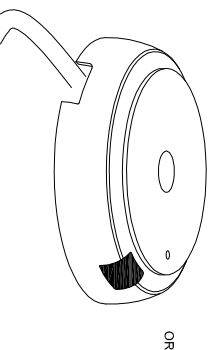
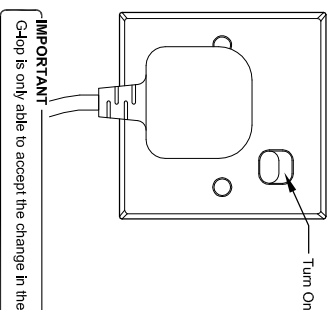


Step 5: Exit setting mode.

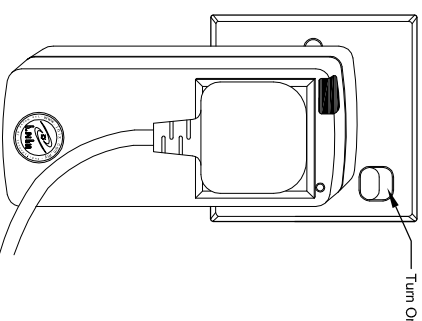
Press [USER2] & [USER3] together with short press to Exit.

18 Assign ID for G-lop

Step 1: Power up G-lop

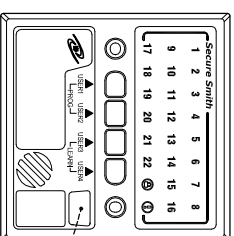


OR



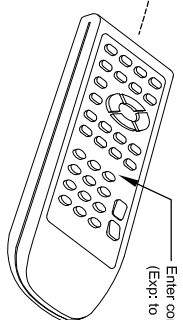
IMPORTANT
G-lop is only able to accept the change in the ID within the period of 1 minute after powering up.

Step 2: Login setting mode. (Kindly refer to section 17 login Setting Mode process)
Step 3: Enter the command below to assign the ID for the G-lop.



Command: [0], [9], [ID], [ID], [ID] & [Save]
Exp: 1) To assign ID = 2 to G-lop
Command = [0], [9], [0], [0], [0], [2]
2) To assign ID = 13 to G-lop
Command = [0], [9], [0], [0], [1], [1], [13]

Enter command (Exp: to assign G-lop ID = '12' command = 0,9,0,0,1,2)



Step 4: Save setting & exit. (Kindly refer to section 17 Save Setting & Exit process)

19 Do & Don't List

Environment & Wiring

- If you are using wireless system, please do not install the main control unit in a concealed location.
 - Please do not house the AC wire(s) and signal wire(s) in the same conduit. (Kindly refer to section 2)
 - Please take extra care not to swap the LIVE & NEUTRAL point from the wall power outlet. (Kindly refer to section 4)
 - Please make sure the EARTH point is provided properly from the power outlet. (This is for G-lop automation signal transmission purpose)
- Installation**
- Please do not take more the 1000mA continuous from DC output (include siren & strobe light) on Main Control Board.
 - Please install ADSL filter to Main Control Unit TEL IN terminal. (For ADSL line user only, kindly refer to section 4)
 - Please do not swap the battery terminals. (Kindly refer to section 7)
 - Please do not reverse wiring polarity. (Kindly refer to section 7)
- DFF Transmitter**
- Wiring to front connector is maximum 6 meters only. (Kindly refer to section 13)
 - User are strongly advised not to install the transmitter near any metallic material. (Kindly refer to section 14)

G-lop installation

- Earth wire must provide properly for the G-lop signal receiving purpose.
- Please do not put the G-lop in hot environment (Maximum 50°C)
- Please make sure the Live, Neutral and Earth are connected to the G-lop accordingly.
- Please take extra care not to overload the G-lop. (Kindly refer to the G-lop specs).
- If you want to use G-lop Open/Short event, please cut the jumper at the both end point. (Kindly refer to section 16)