Windcrest

2 Wire Autodialler System with Fire Fighting Intercom

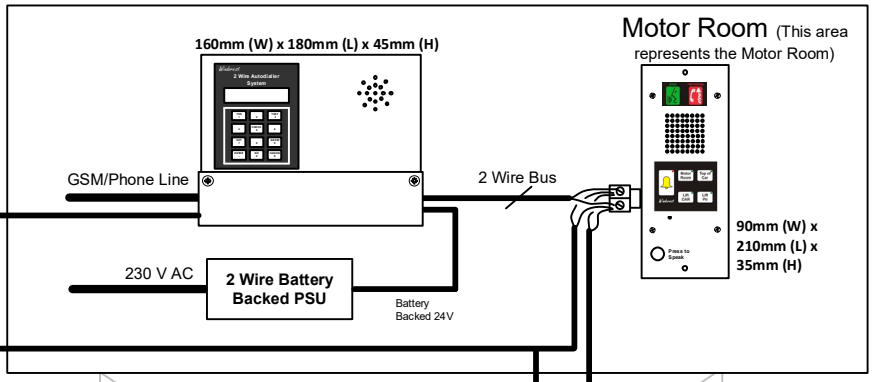
EN 81-28 & EN 81-72

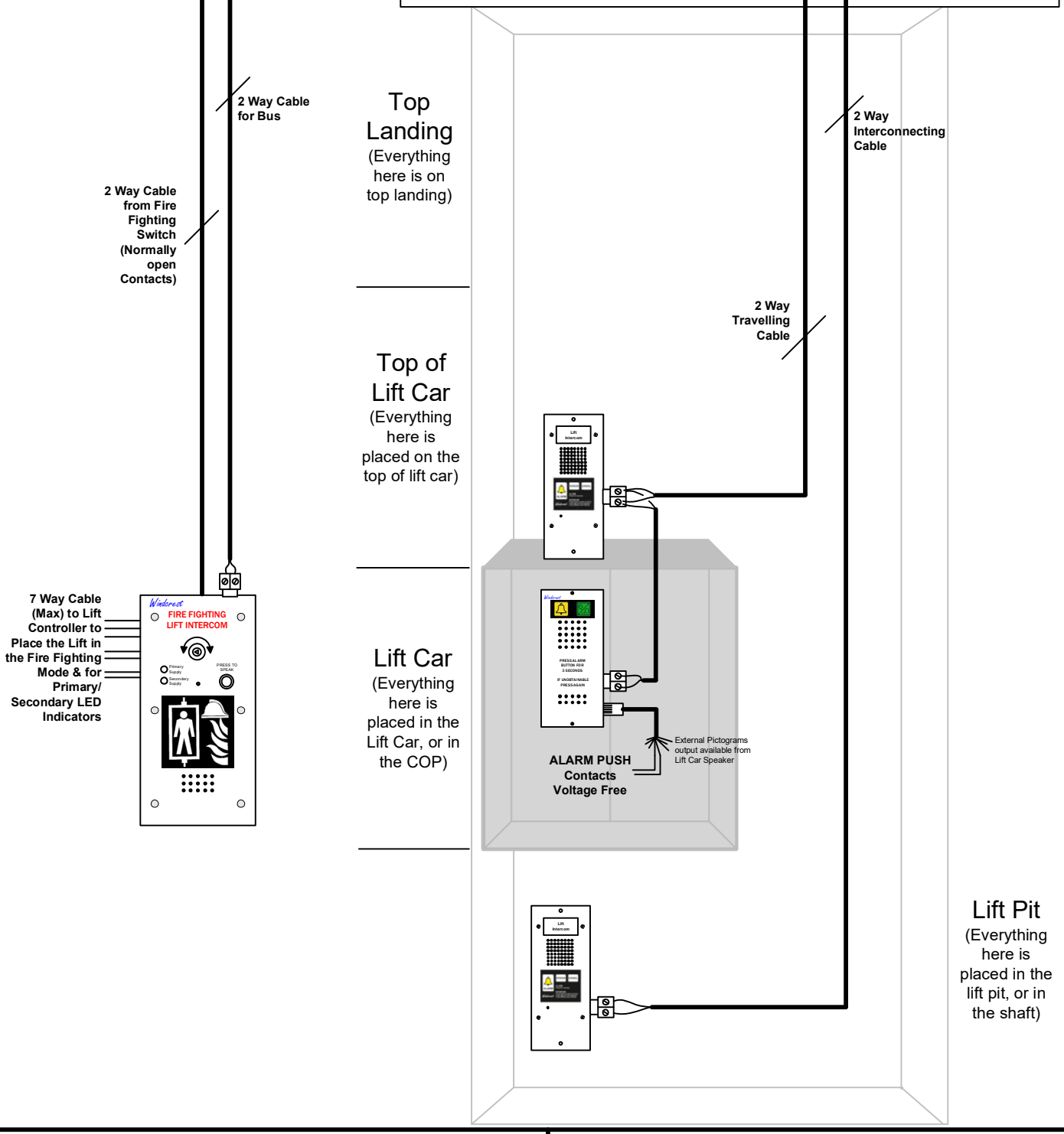
Compliant

Cable description	Single core wire	Multicore cable	or Cable used in special cases only

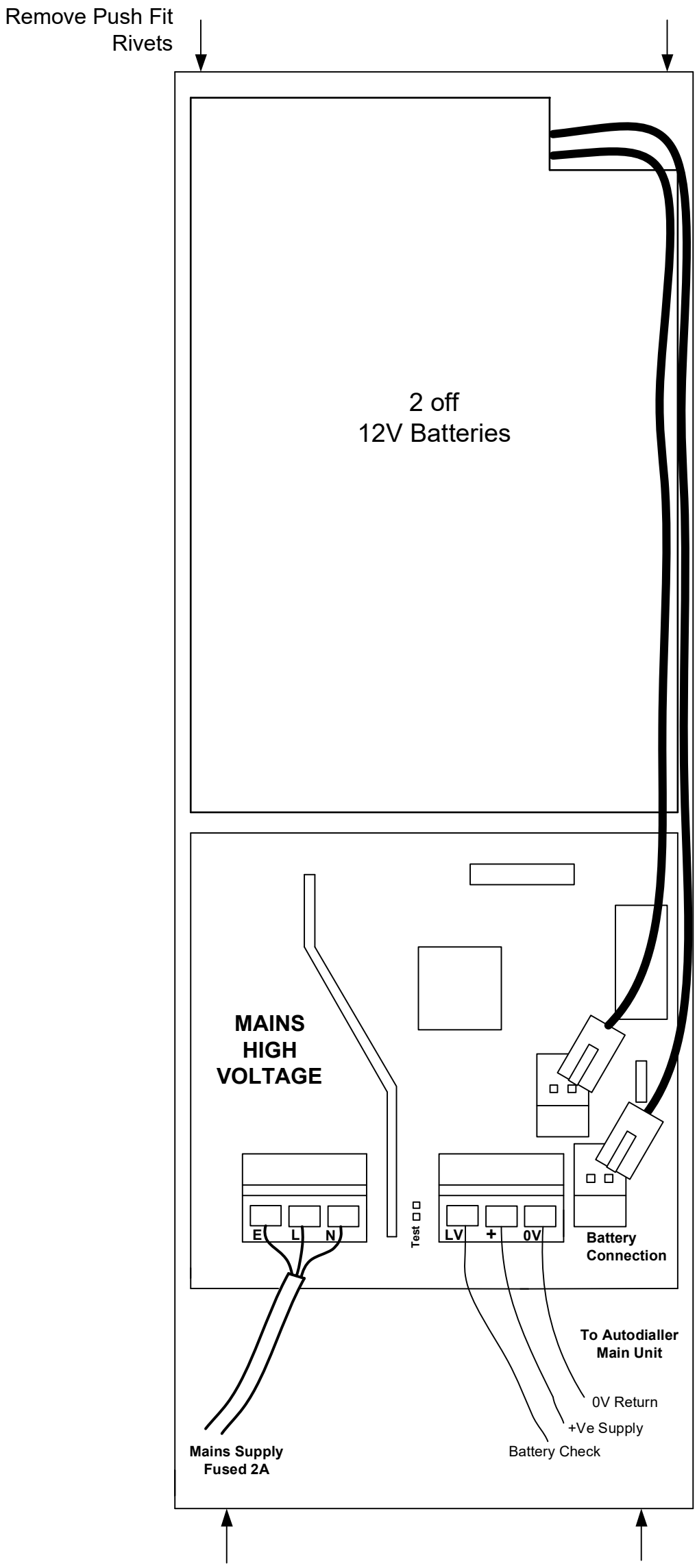
NOTE:

1) All cable wires used for bus connection should be screened & twisted and of min. 0.75mm^2 of conductor and if the cable length is more than 100M use 1.5mm^2 of conductor wires. Max. 250M of cable.





Windcrest 2 Wire Autodialler System	Part No.: 2WAD EN4-FF STD	Page 1
	01/11/2017	Version: 1



**WARNING:-
ISOLATE MAINS
PRIOR TO
OPENING THE
PSU BOX.**

Connect the wires to the 2 Wire Main Unit as follows and then connect the Battery.

PSU	2 Wire Main Unit
"+"	"Supply +"
"0V"	"Supply –"
"LV"	" BB "

Connections

Connect Mains via the 3 way connectors. Use Cable Ties to secure the wires together and ensure no wire "whiskers".

NB: The Power supply unit has been designed to supply power only for the Autodialler and no extra power is available for additional equipment. Over loading may damage the power supply.

All wiring must be carried out the competent engineer and ensuring that the PSU box is connected to the safety Earth in compliance with the normal electrical installation regulations.

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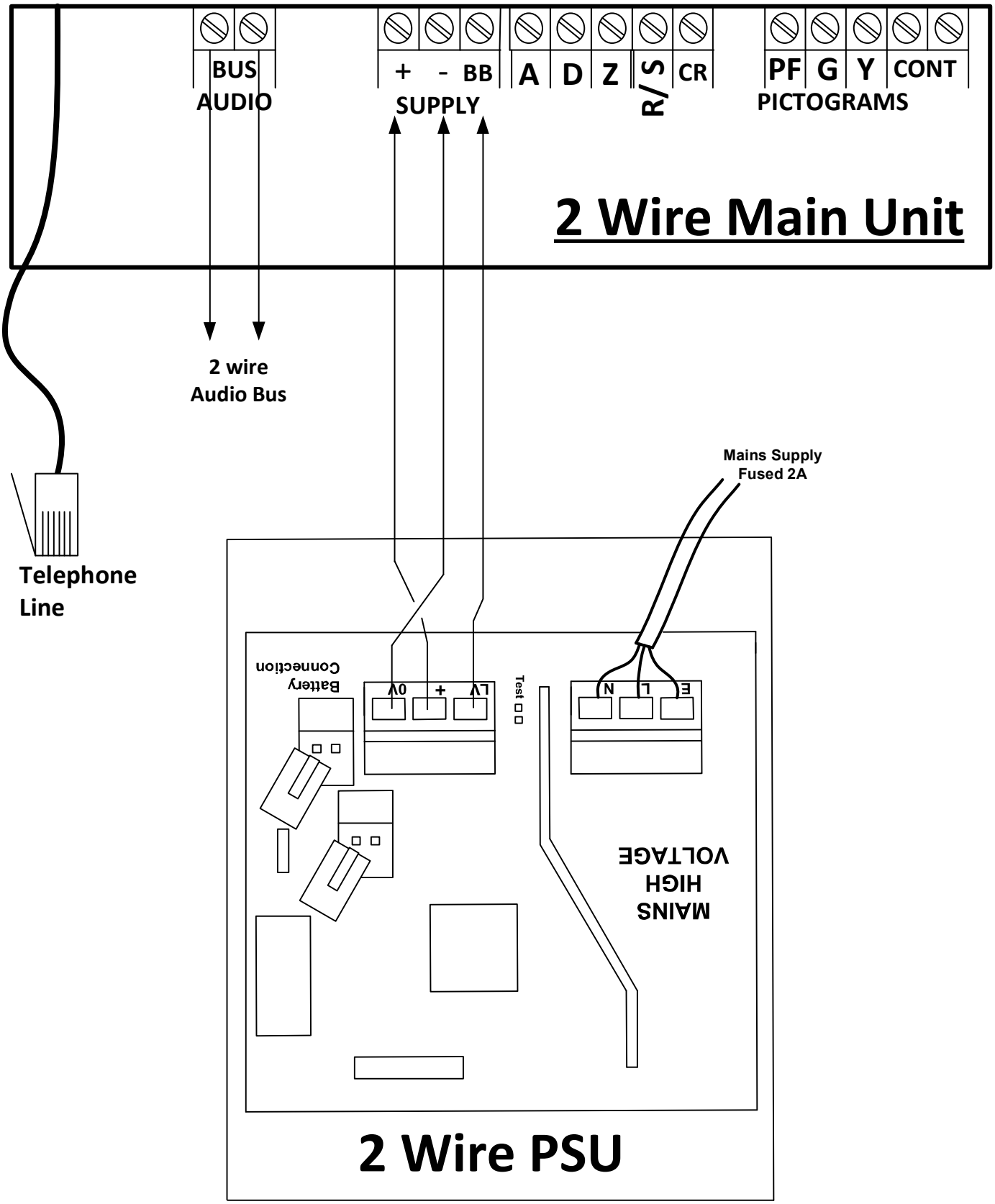
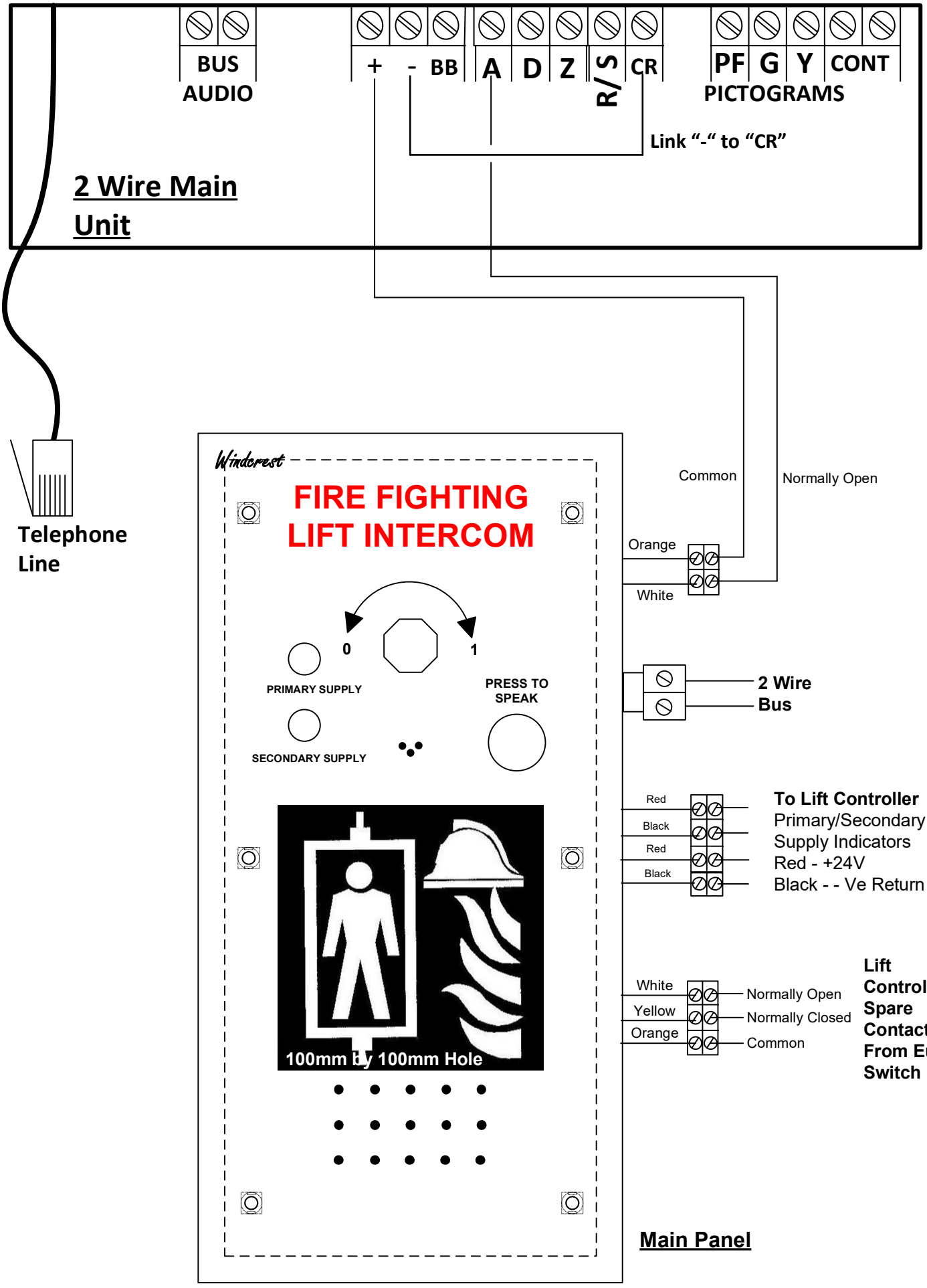


PSU Connections	Drawing No: 2W_CON Issue No:1 Date:10/09/18	Page 3
	Windcrest **(UK) Ltd**	**Tel: 0208 795 0333** **Fax: 0208 795 0444**



Wiring of FF Panel with 2 Wire Main Unit

Drawing No: 2W_FF_CON Issue No:1 Date:10/09/18 Page 4

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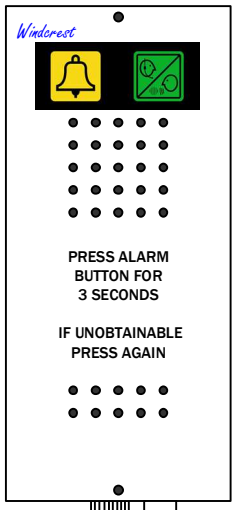
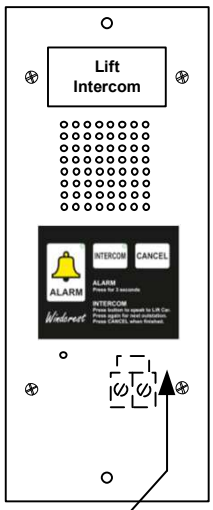
NB:- The Lift Car Speaker Box detects the Alarm Push contacts, i.e. Normally Open/ Closed when powered Up, therefore the sequence must be as follows:-

1) Disconnect RJ45 & 2 Wire bus from the Lift Car Speaker.
2) Connect Alarm Push to the RJ45 Cable wires.
3) Connect RJ45 Cable to the Lift Car Speaker.
4) Connect 2 Wire Bus.

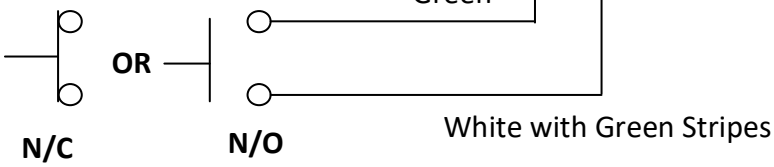




If Green LED does not illuminate swap the BUS wires around.

2 Wire Bus Network

NB:- All unused wires must not be shorted with each other. Shorting may result in permanent damage of the speaker box.



Lift Alarm Push

Note:- The RJ45 Cable is supplied with the unit. However, if any other RJ45 cable to be used for the unit, the plug must be made as per the above drawing. Incorrectly made plug will result in damaging of the unit and will violate warranty terms.

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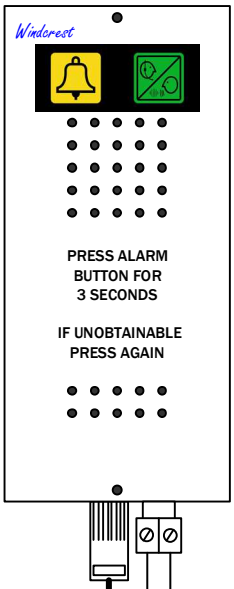
NB:- The Lift Car Speaker Box detects the Alarm Push contacts, i.e. Normally Open/ Closed when powered Up, therefore the sequence must be as follows:-

1) Disconnect RJ45 & 2 Wire bus from the Lift Car Speaker.

2) Connect Alarm Push to the RJ45 Cable wires.

3) Connect RJ45 Cable to the Lift Car Speaker.

4) Connect 2 Wire Bus.



2 Wire Bus Network

Lift Power Supply

+12/24V 50mA MAX

0V

Orange

+Ve

+Ve

-Ve

-Ve

Blue

White with Orange Stripes

NB:- All unused wires must not be shorted with each other. Shorting may result in permanent damage of the speaker box.

Green

OR

N/C

N/O

White with Green Stripes

Lift Alarm Push

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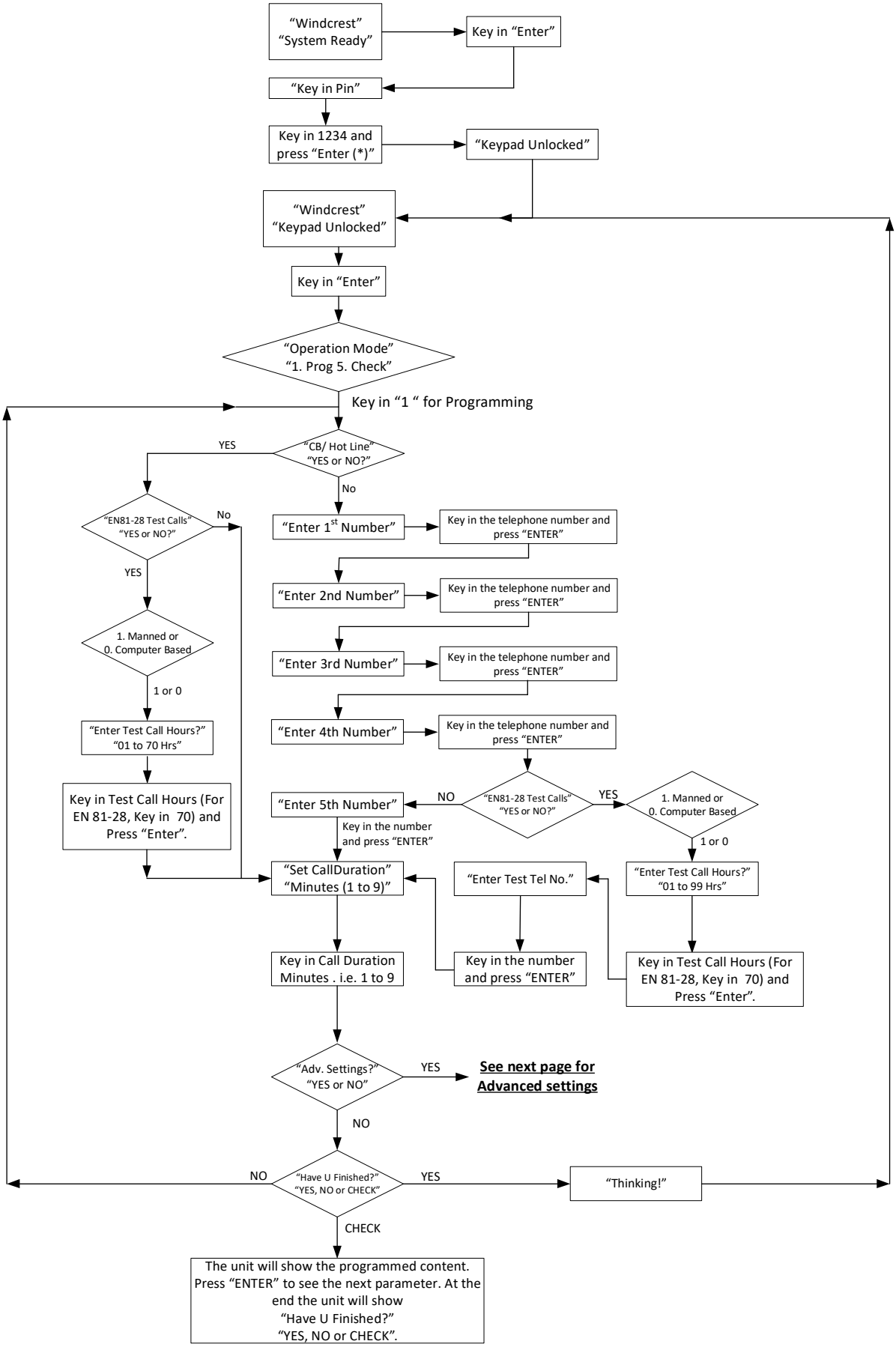

Basic Programming of the System

Drawing: 2WAD_BASIC_PROG
Date: 03/09/17

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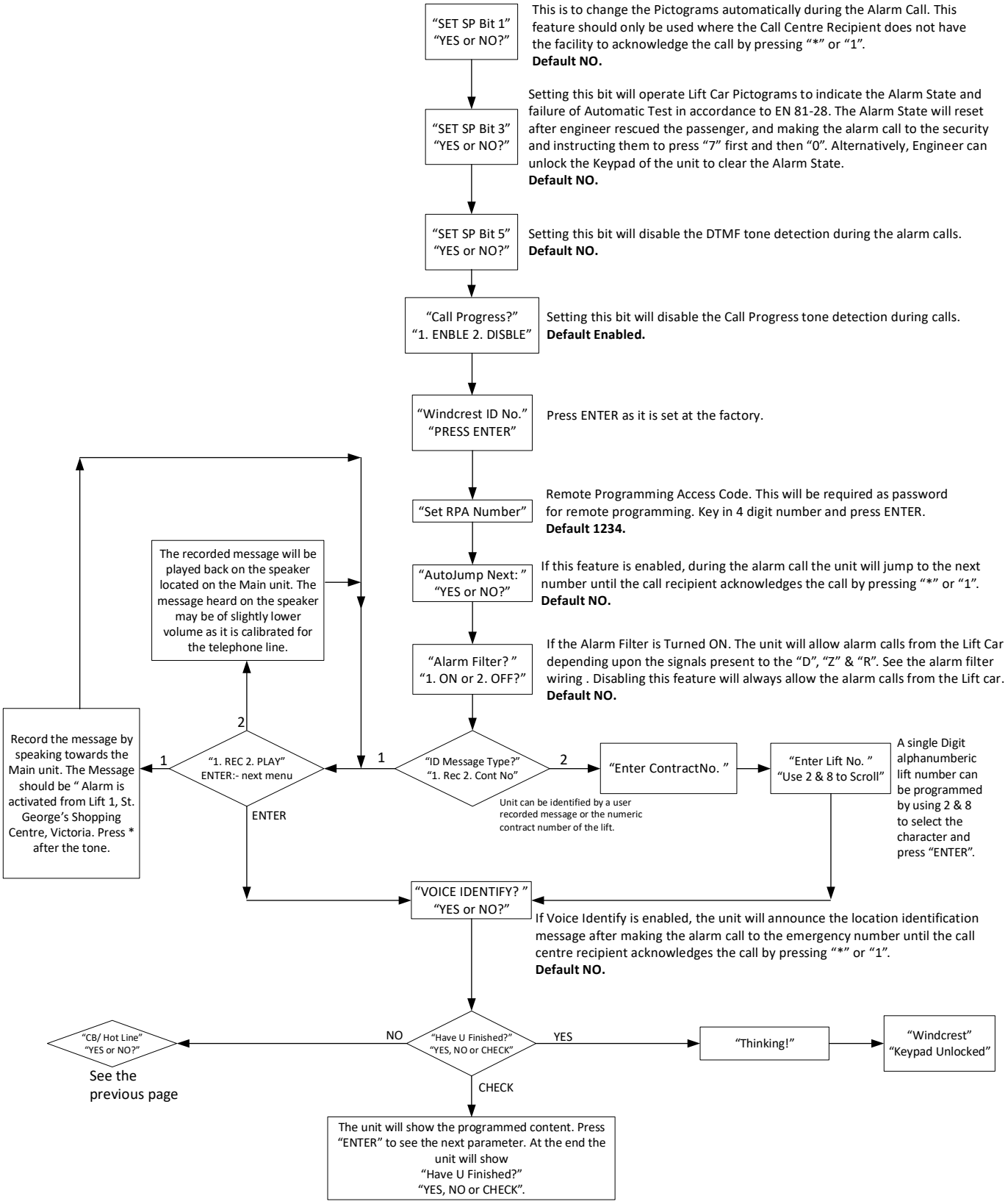

Advanced Programming of the System

Drawing: 2WAD_ADV_PROG

Date: 03/09/17

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Remote Programming

The system can be remotely programmed by calling the telephone number where the unit is connected. Follow the steps below:-

1) Call the telephone number of the unit.
2) Once the unit answers the call, wait for 5 seconds after the unit completes all the automated announcements.
3) Key in *RPA NO# on the telephone handset. For example the default RPA no. is 1234. therefore key in *1234#. If the RPA is accepted, the unit will respond with two beeps. If the RPA identified by the unit is incorrect, the unit will give several beeps for warning.

Once the RPA is accepted by the unit, key in the strings on the telephone handset to program the corresponding parameter. At the end of each string, the unit will announce the complete string to confirm the programmed parameter in the format “Beep”- “Parameter Digits”-“Beep” -“Value”-“Beep”.

Programming strings:-

1st Telephone Number	*11#Number##	
2nd Telephone Number	*12#Number##	
3rd Telephone Number	*13#Number##	
4th Telephone Number	*14#Number##	
5th Telephone Number	*15#Number##	
Contract Number	*16#Number##	
Windcrest ID Code	*17#	Unit will announce the programmed ID Code
Test Calls	*20#N##	N = 0 to Turn OFF N = 1 to Turn ON.
Auto Jump	*21#N##	N = 0 to Turn OFF N = 1 to Turn ON
SP BIT 1	*22#N##	N = 0 to Turn OFF N = 1 to Turn ON
HOT LINE (Automatic dialling by telephone line)	*23#N##	N = 0 to Turn OFF N = 1 to Turn ON
Voice ID	*24#N##	N = 0 to Turn OFF N = 1 to Turn ON.
Identification Message	*26#N##	N = 0 for Contract Number N = 1 for User Recorded Msg.
SP BIT 3	*27#N##	N = 0 to Turn OFF N = 1 to Turn ON
Test Call Type	*28#N##	N = 0 for Computer Based Test calls N = 1 for Manned Test Calls
Call Progress	*29#N##	N = 0 for Call Progress Tone Disabled N = 1 for Call Progress Tone Enabled
Call Duration	*30#N##	N = 1 to 9
Test Call Frequency (Hrs)	*40#NN##	NN = 01 to 99 Hours
Lift Number	*41#NN##	NN = 00 , 01 , 02 , 03 ,04 ,05 , 06, 07, 08, 09, For Alphabets A=10, B = 11, ….Z=35
Alarm Filter	*46#N##	N = 0 to Disable N = 1 to Enable

To end the Programming *00#. Unit will give two beeps.

Following can be applied to check the programmed parameter.
PARAMETER. For Example. To find out the 1st programmed number Key in *11* and the unit will announce the 1st telephone number in the format BEEP-ONE ONE-BEEP-1st Programmed Number-BEEP.

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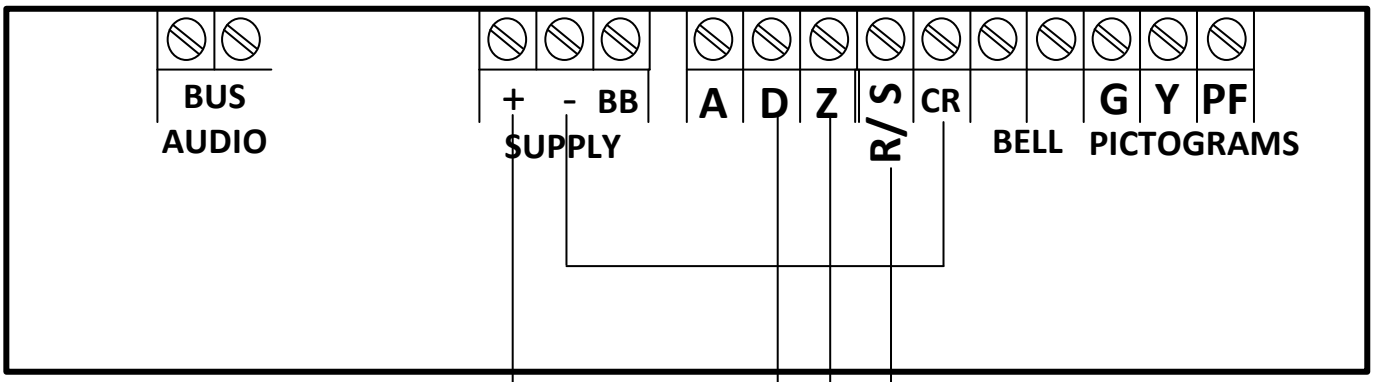
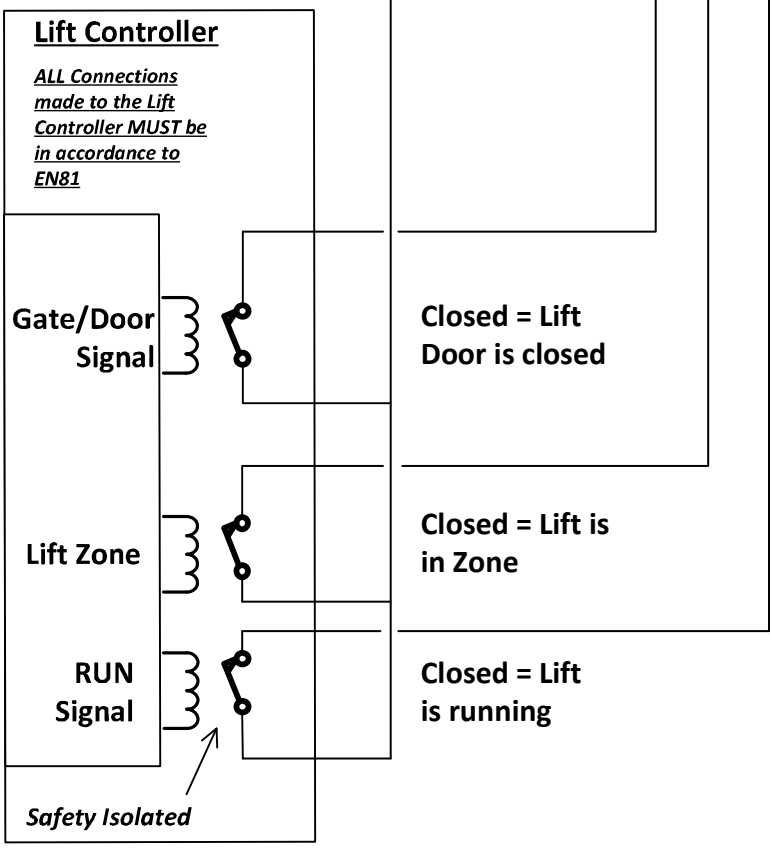
2 Wire Main Unit





Operation (EN81-28)

If the Alarm Filter is activated No Alarm allowed from the Lift Car when:-

Doors Closed AND Lift is in zone AND Lift is running

For the purposes of the testing, if the Alarm Button in the Lift Car is Pressed and held down for the "Configurable Bypass Filter" Period, the unit will make the alarm call.

The Configurable Bypass Filter period can be programmed when the Lift Car Speaker is powered Up. Default Configurable Filter Bypass period is 15 Seconds. i.e. if the Alarm Button in the Lift Car is pressed and held down for 15 seconds or more, the alarm call will be made irrespective of the Alarm Filter state.

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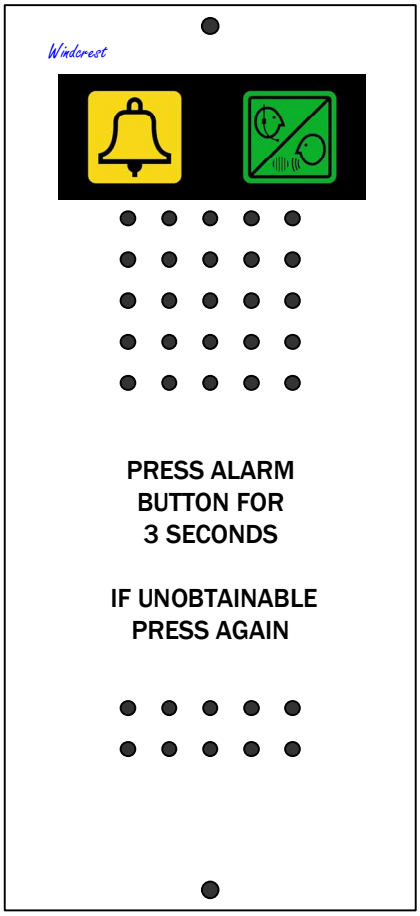

To Program Instant/3 Seconds Trigger Delay & Filter Bypass Delay, disconnect the Lift Car Speaker from the bus. Set DIP Switch 5 to ON position, and connect the Lift Car Speaker to the Bus. If DIP Switch 5 is in OFF Position, the Lift Car Speaker will skip the sequence below and give beep after 5 seconds of powering it up and scanning Alarm Push Contacts.
sequence of events will be as follows:-

1.

Flashing

<u>Program Trigger delay whilst yellow pictogram is flashing.</u>

Alarm Push Pressed
Once = Instant Trigger
More than Once = 3 seconds Trigger Delay

Each Alarm Press will be shown by illuminating the Green Pictogram. If no Alarm Button is pressed, the existing programmed delay will not change.

2.

Solid ON

This state will show the Programmed Trigger Delay. If the unit is programmed for Instant Trigger, the Green Pictogram will flash once and if the unit is programmed for 3 seconds trigger delay, the Green Pictogram will flash 3 times.

3.

Flashing

<u>Program the Configurable Filter Bypass Period whilst Green pictogram is flashing.</u>
Every time the Alarm Button is pressed, the period will add 5 seconds. i.e. pressing the Alarm button once will program the period as 5 seconds. If the button is pressed 3 times, the period will be set as 15 seconds. The max. period can be programmed is 30 seconds. Each Alarm Press will be shown by illuminating the Yellow Pictogram. If No alarm button is pressed, the programmed period will not change.

4.

Solid ON

This state will show the Programmed Configurable Bypass . The Yellow Pictogram will flash to show the programmed period. Each flash will represent 5 seconds. i.e. if the Yellow Pictogram flashes 3 times. The Bypass period is 15 seconds.

5.

The Lift Car Speaker will give initialisation complete bleep to indicate the system is ready.

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Answering an incoming call

From a Trapped Passenger

Trapped Passenger
Answer the phone as usual.

The phone will be connected to the lift, at which point you will hear a speech prompt which will identify the lift's location, provided the system has been set appropriately.

Press the star (*) button on the telephone to acknowledge the call, (for EN81-28 the Green pictogram will activate in the lift car) and conduct the conversation with the trapped passenger.

Once the conversation has finished, terminate the call with a zero (0) and thereafter placing the handset down.

Non Computer based Auto-Test
If during the programming the Manned central station Auto-Test Calls are activated, Autodialler will make call as per the programmed test-call hours frequency and after answering the call, it will announce "EN 81 Test Call Press 0 Now". After the message, press 0 and the unit will announce the identification message of the unit and terminate the call. If 0 will not be pressed, unit will repeat the message every 5 seconds for max. of 8 times.

Vandal/nuisance calls
If a Vandal has made a call from a lift location, it is possible to disable the ALARM button for 30 minutes by pressing a nine (9) during the call.

From an Engineer after releasing passenger(s)

Answer the phone as usual.

The phone will be connected to the lift, at which point you will hear a speech prompt which will identify the lift's location, provided the system has been set appropriately.

Press the star (*) button on the telephone to acknowledge the call, and conduct the conversation with the Lift Engineer.

Once the conversation has finished, Cancel the Alarm State by pressing a "7" (i.e. Flashing of the Pictogram) and then terminate the call with a zero (0) and thereafter placing the handset down.

Calling a Lift

NB: It may not be possible to call a lift if connected to an extension of a PABX

Call the Lift's phone number as usual.

When the call is answered, a tone and a speech prompt "Answering an incoming call" will confirm connection to the lift car.

Pressing "7" on the handset during the conversation, Autodialler will announce the location message stored by the engineer at the time of the installation.

Once the conversation has finished, terminate the call with a zero (0) and thereafter placing the handset down.

Intercom

The intercom facility is provided in the system to speak to and from Lift Pit, Lift Top, Lift Motor Room and Lift Car. To Open the Intercom facility press the "Intercom" button on Lift Top/Pit/Motor Room speaker. The system will open the intercom channel to the Lift Car upon opening the intercom. Pressing the Intercom button again will open the channel to the Lift Top then Lift Pit and Lift Motor Room. Pressing the Cancel Button on the Keypad will close the intercom. If cancel button is not pressed after 2 minutes, the intercom channel will time out after 2 minutes.

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Fire Fighting Functions

Lift Controller Spare Contacts on the Fire Fighting Switch:-
Orange - Common
White- Normally Open
Yellow- Normally Closed

Switch Contacts from the Panel to the 2 Wire Main Unit:-
Orange – Common (“+” on 2 Wire Main Unit)
White- Normally Open (“A” on the 2 Wire Main Unit)
On the 2 Wire Main Unit Link across “-“ and “CR” Terminals

Interconnection

Connect Fire Fighting Main Landing Speaker to the 2 Wire bus. Connect the 2 Wires from the Switch to the 2 Wire Main unit and link across “-“ & “CR” terminals on the 2 Wire Main Unit.

Operation

When Fire Fighting Switch is turned on at the Fire Fighting Main Panel, 3 way communication will be turned ON among the Lift Car Speaker, MRL FF Landing Speaker/Top Landing Speaker and the Main Landing Speaker. There is press to speak push button at the MRL FF Landing Speaker/ Top Landing Speaker and the Main Landing Speaker. When the Fire Fighting Switch is Turned ON, Green Pictogram will illuminate in the Lift Car to Indicate communication link is ON. Pictograms at the MRL FF Landing Speaker/Top Landing Speaker and the LED on Main Landing Speaker to indicate the status of the system.

When the Fire Fighting system is ON, no other operation will be allowed.

Turning OFF the Fire Fighting Switch will switch OFF the Communication and Pictograms.

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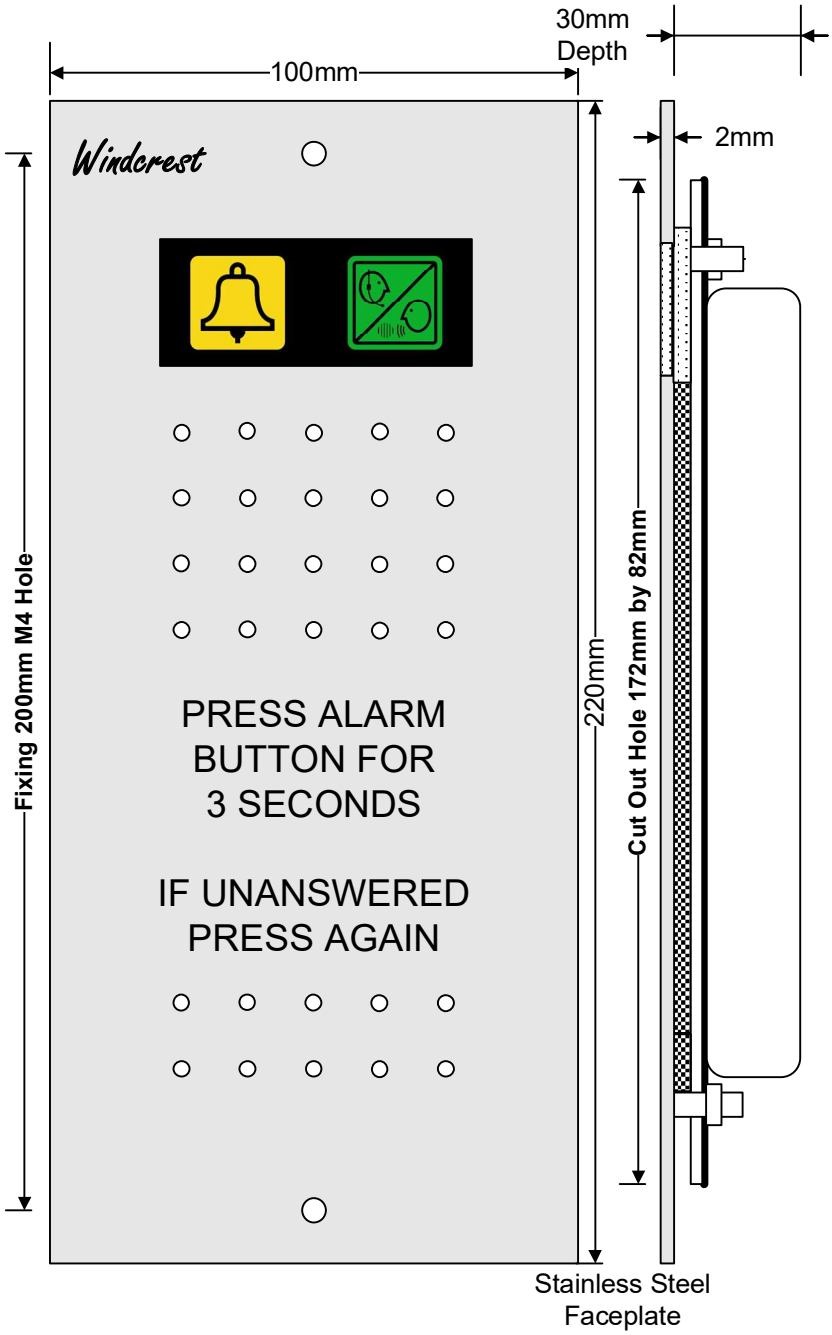

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