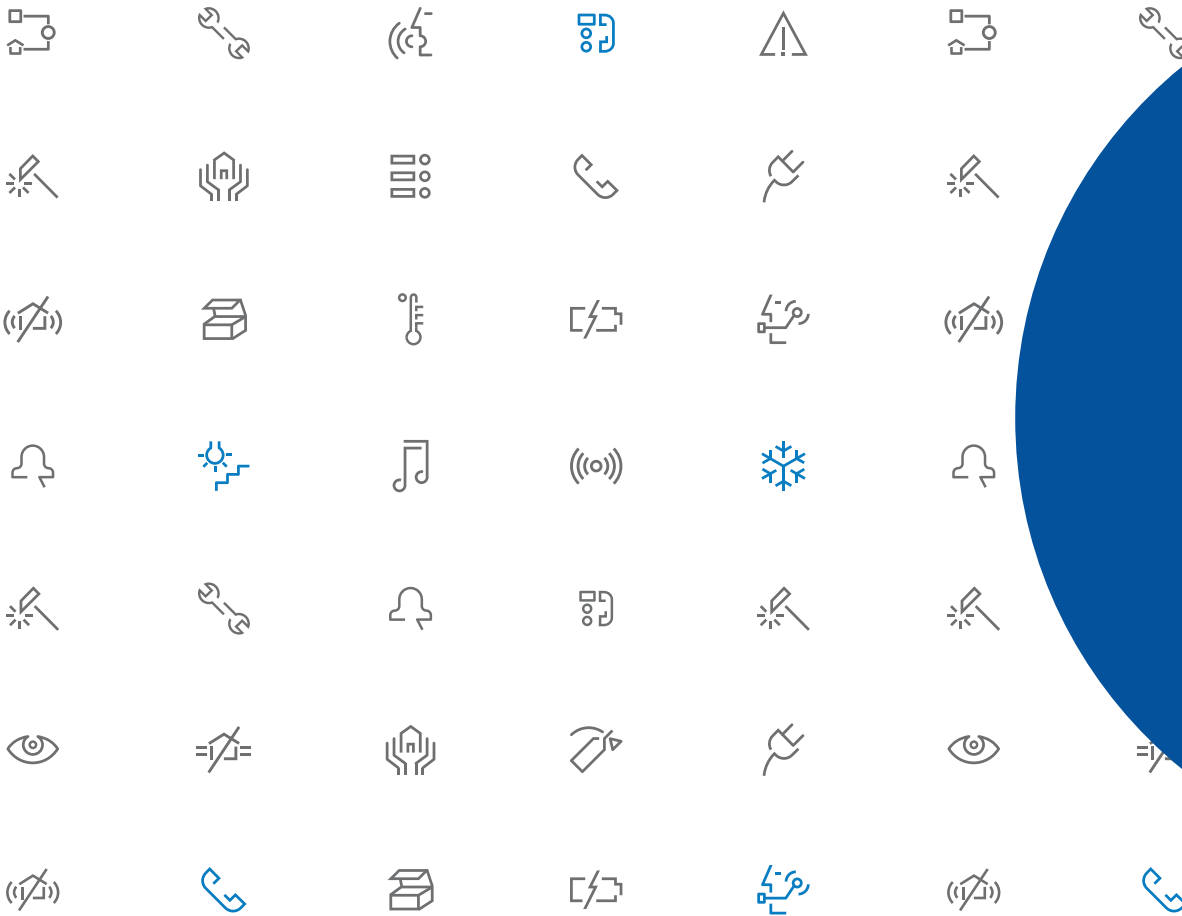




# 2VOICE INSTALLATION GUIDE



## 2VOICE

## 2-Wire non-polarised video door entry system

### Analogue system - Sinthesi Steel entry panels

## URMET IS IN YOUR LIFE



# 2Voice analogue video system installation manual

## Contents –

### Installation

- Entry panel
- Power supply & control equipment
- Video distributor
- Signo monitor
- Aiko monitor
- Folio monitor

### Commissioning

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- 1083/17 Installtion
- Settings
- Fault finding

### Appendix

- Additional 2Voice features
- Lock release outputs
- DIP switch settings for monitors

## **Installation--**

### **Entry panel**

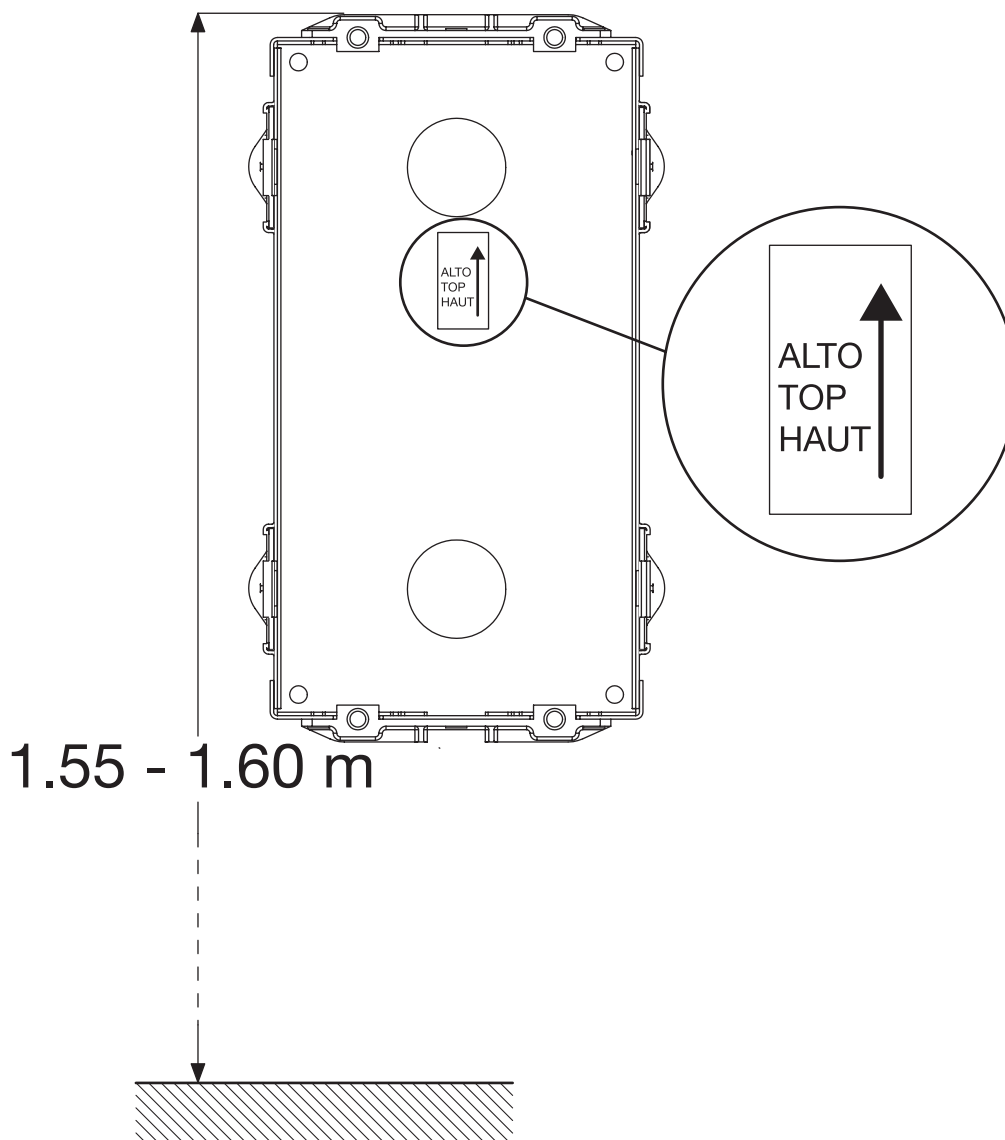
For mechanical fixing details of the entry panel please refer to the product information provided with the Sinthesi Steel back box or surface housing and frames.

Failure to install the entry panel as per the instructions automatically invalidates the product warranty.

Avoid mounting the entry panel in a position where the building structure causes rain water to run directly onto the unit.

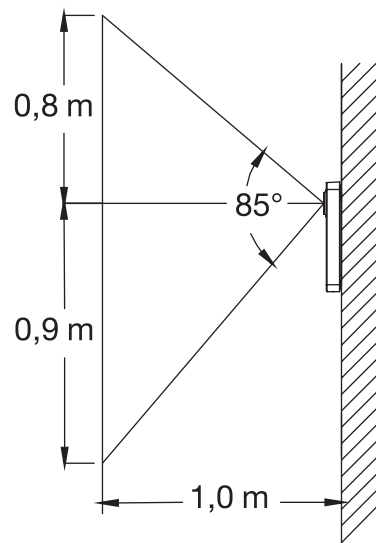
Where possible, route cables from below, up into the back box rather than from above down.

Recommended mounting height –

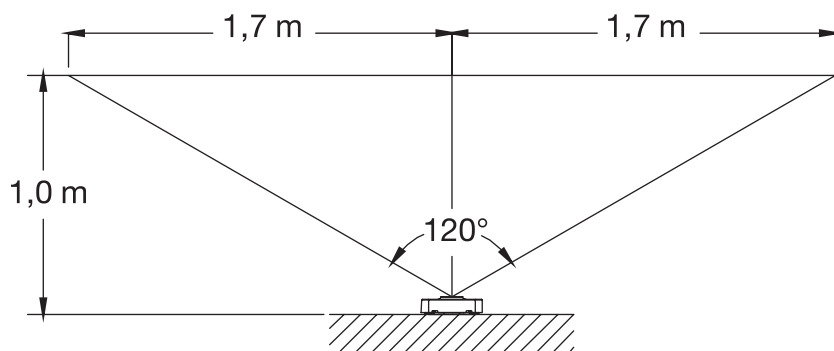




Vertical

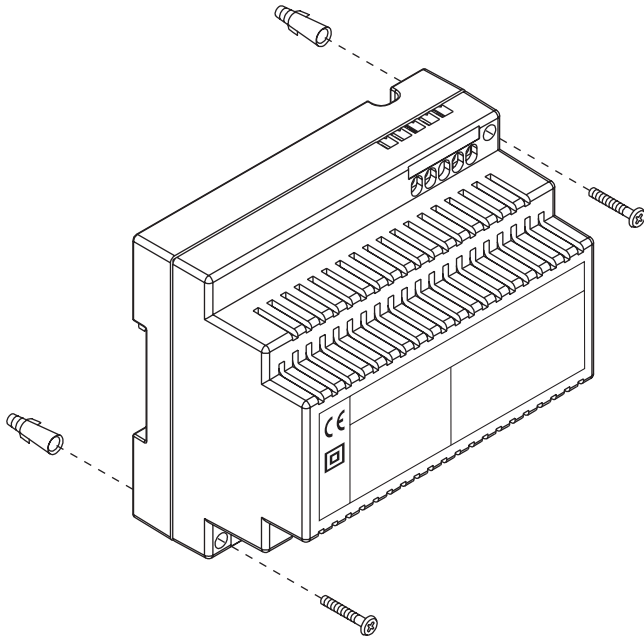


Horizontal

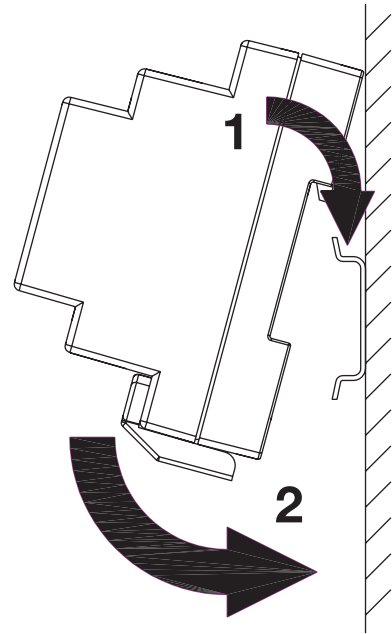


## Power supply/control equipment

Power supplies and control equipment can be mounted on DIN46277 bar or using the screw fixing points provided.



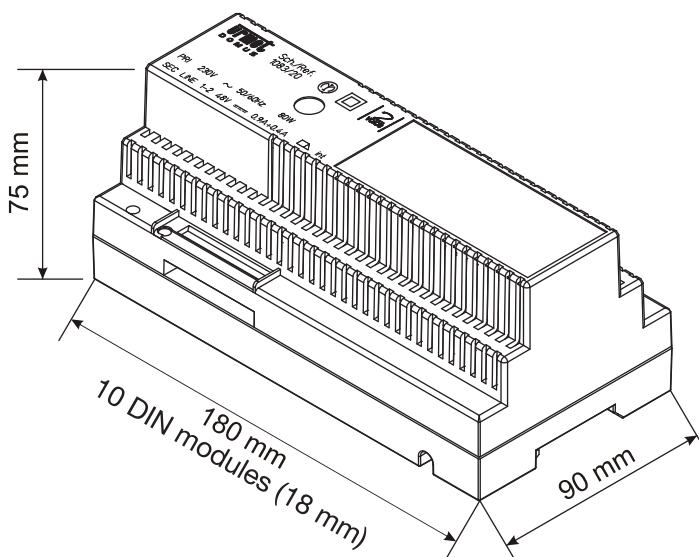
Wall-mounted Installation



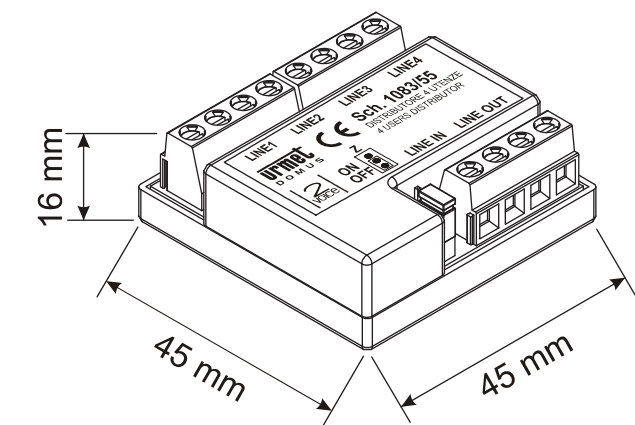
Installation on DIN bar (6 x 18mm modules)

Alternatively the system power supplies and control equipment can be mounted in an Urmet Easycase (lockable metal equipment case specifically designed for door entry systems).

The exact type and quantity of power supplies and control equipment will depend on the size of the system, but as a minimum there will be one 1083/20 Power Supply –

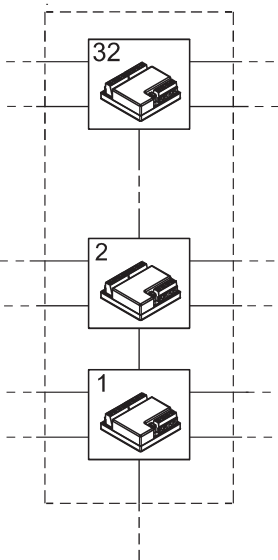


Video Distributor (1083/55)

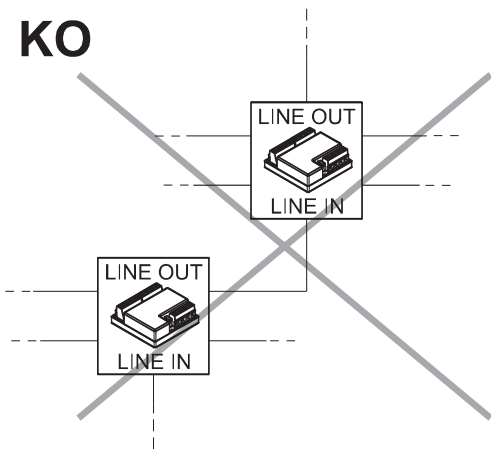
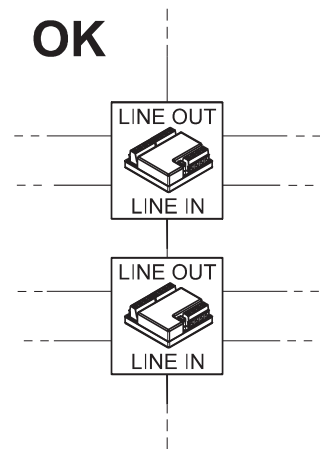


The video distributor is used to split the riser cable into the apartments.

It has an input for the riser cable (LINE IN), an output for the riser cable (LINE OUT) and four outputs to apartments (LINE1 to LINE4). Note that LINE OUT cannot be connected to an apartment monitor.

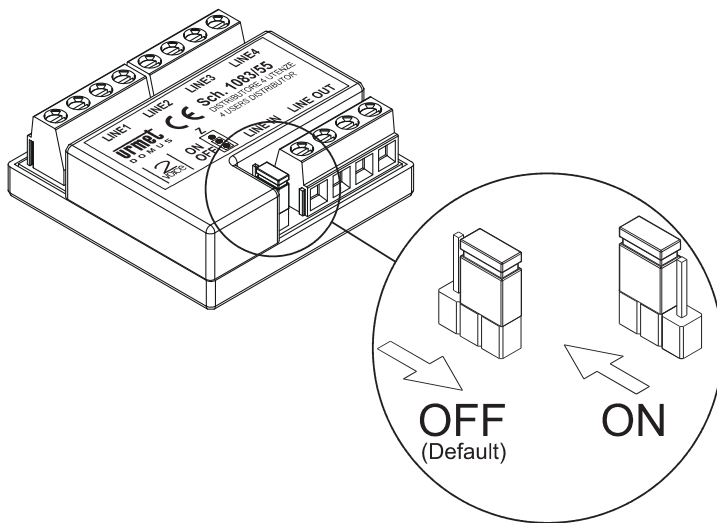


Maximum 32 video distributors per riser

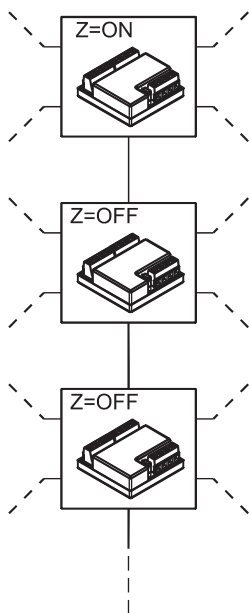


You cannot connect an apartment output (LINE1 to LINE4) to a riser cable input (LINE IN)

The video distributor has a termination jumper. The default position of the jumper is OFF.



It must be in the ON position on the last distributor in the riser –

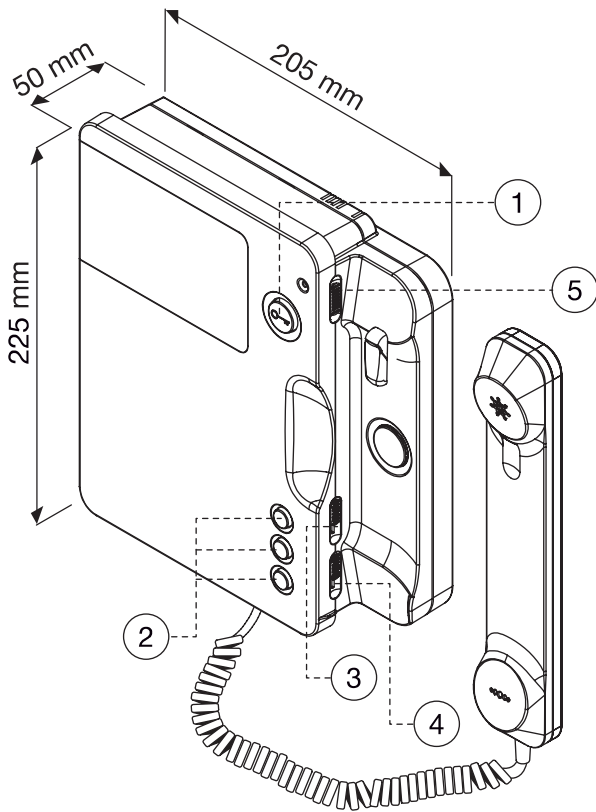


The distributor apartment outputs (LINE1 to LINE4) are protected against short circuit. To reset the distributor after a short circuit, remove the short circuit then disconnect LINE IN for a minimum of one minute.

## Video monitors

### Signo

1740/713 mono monitor with wall bracket  
1740/753 colour monitor with wall bracket



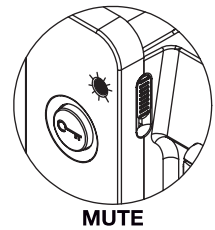
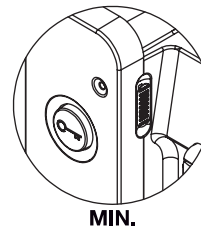
1 – Door release button

2 – Auxiliary buttons

3 – Contrast adjustment

4 – Brightness adjustment

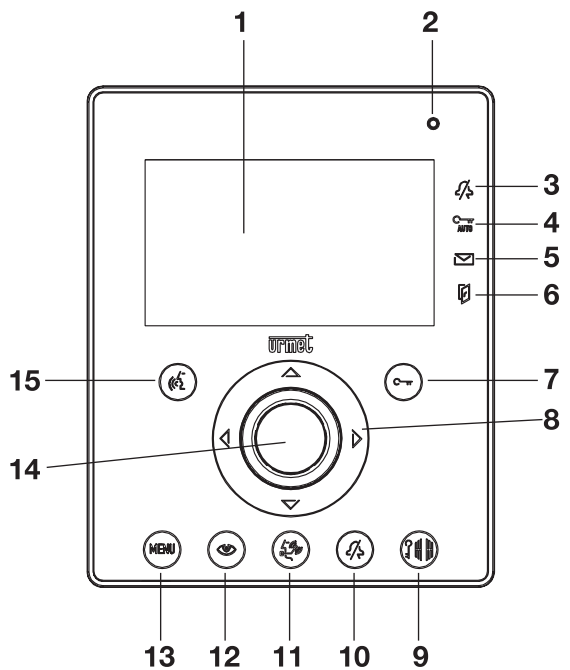
5 – Call volume adjustment/on-off switch -



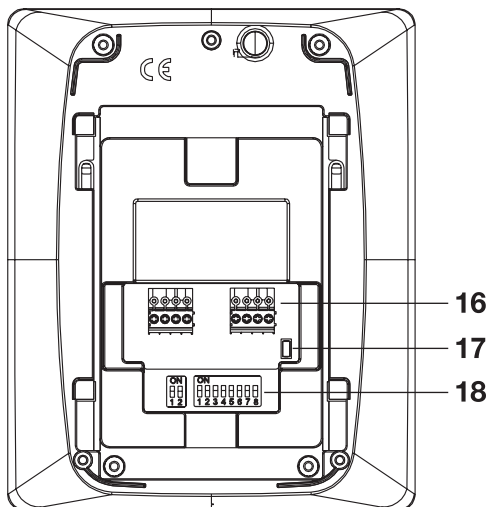
For advanced programming and further details for the Signo monitor see the User Guide LBT8392

# Aiko

1716/1 Black model  
1716/2 White model



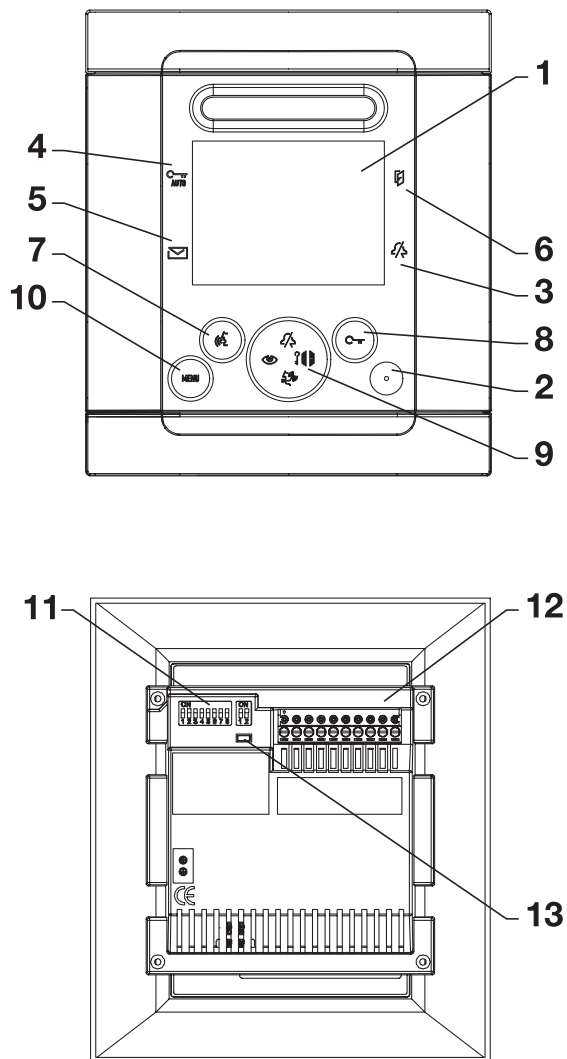
- 1 – Display
- 2 – Microphone
- 3 – Indication of mute function active (green LED)
- 4 – Indication of automatic door release active (green LED)
- 5 – Indication of message present (green LED)
- 6 – Indication of door open or absence active (red LED)
- 7 – Lock release button (or OK button in menus)
- 8 – Navigation buttons
- 9 – Auxiliary release button (eg for vehicle gate)
- 10 – Call mute button
- 11 – Switchboard call button
- 12 – Automatic activation button (switches monitor on)
- 13 – Menu button
- 14 – Loudspeaker
- 15 – Button to activate/deactivate audio (or X button in menus)
- 16 – Terminals for connection to the system
- 17 – Termination jumper
- 18 – Configuration DIP switches -  
(2 way switch sets address within apartment)  
(8 way switch sets address within system)



For advanced programming and further details for the Aiko monitor see the User Guide LBT8484

# Folio

1706/5 Black model  
1706/6 White model



- 1 – Display
- 2 – Microphone
- 3 – Indication of mute function active (green LED)
- 4 – Indication of automatic door release active (green LED)
- 5 – Indication of message present (green LED)
- 6 – Indication of door open or absence active (red LED)
- 7 – Button to activate/deactivate audio (or X button in menus)
- 8 – Lock release button (or OK button in menus)
- 9 – Buttons for Navigation, auto on, call to switchboard, gate opening, call mute.
- 10 – Menu button
- 11 – Configuration DIP switches -
  - (2 way switch sets address within apartment)
  - (8 way switch sets address within system)
- 12 – Terminals for connection to the system
- 13 – Line termination

For advanced programming and further details for the Folio monitor see the User Guide LBT8494

## **Commissioning**

### **Connections**

1. Connect the monitor/wall bracket as per the supplied diagram\* and set the DIP switches – See pages 24 & 25 of the appendix for DIP switch diagrams.

#### **DIP switch settings for monitors –**

Each apartment within a block **MUST** have a different code (between 0 and 127) set by the DIP switches on the monitor/wall bracket.

Where there is more than one monitor in an apartment, all the monitors in the apartment must have the same code (A 2-way DIP switch sets the code within the apartment – see Page 23 for an example)

DIP switch 1 must always be off and the apartment code is set using switches 2-8.

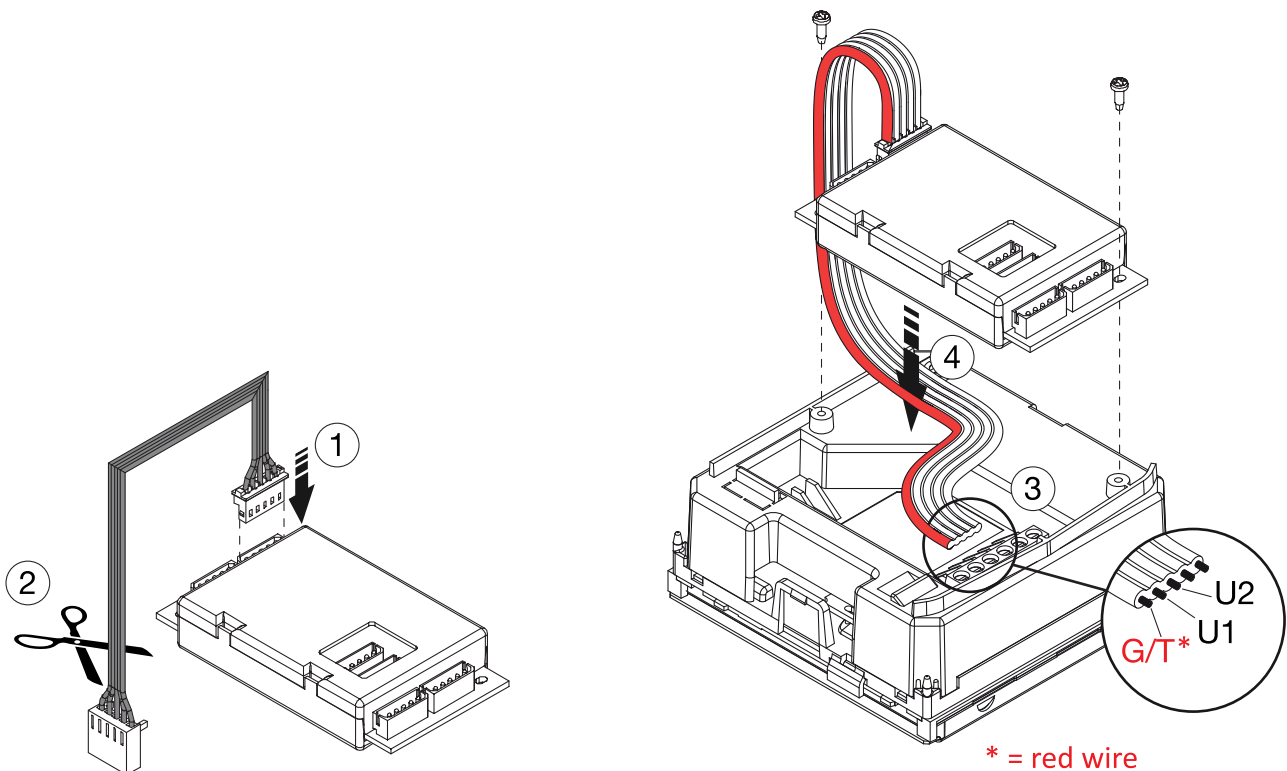
2. Connect the video distributors (1083/55) as per the supplied diagram\* and set the jumper.
3. Connect the power supply (1083/20) and any other control equipment as per the supplied diagram\*.
4. Connect the entry panel as per the supplied diagram\*
5. Test each apartment and make any final adjustments such as camera angle and speech volume.

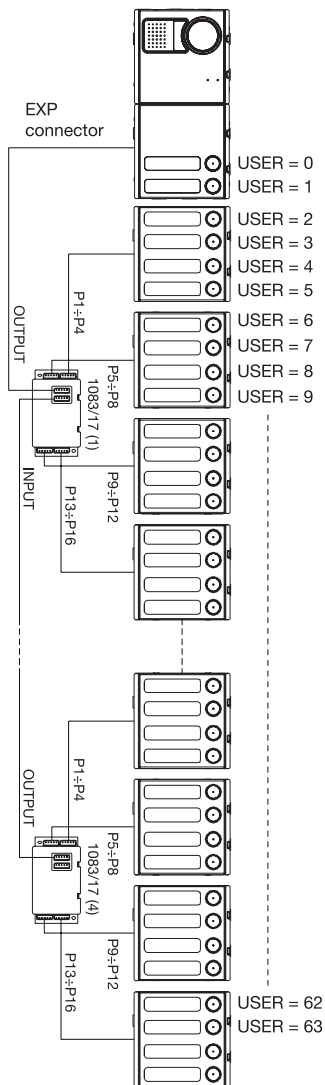
**\*There are sample connection diagrams included with each piece of equipment, however you should have been provided with a connection diagram that is specific to your installation. Follow any specific instructions on the diagram regarding programming and settings. The diagram will have a Drawing number in the format UD01234. If you do not have this diagram please contact Urmet Technical Support before installing the equipment.**



To install the 1083/17 in a one or two button module (1158/11 or 1158/12) proceed as follows –

- ① Plug the ribbon cable into the connector **P4 P3 P2 P1 C**. This is the input for the first button module.
- ② Cut the connector off of the other end.
- ③ Strip the red wire and the two wires next to the red wire. Connect the red wire to the G/T terminal of the 1158/11 or 1158/12 button module. Connect the wire next to the red wire to terminal U1 of the 1158/11 or 1158/12. Connect the next wire to terminal U2 (only for 1158/12 modules).
- ④ Fix the 1083/17 to the rear of the button module using the screws provided.

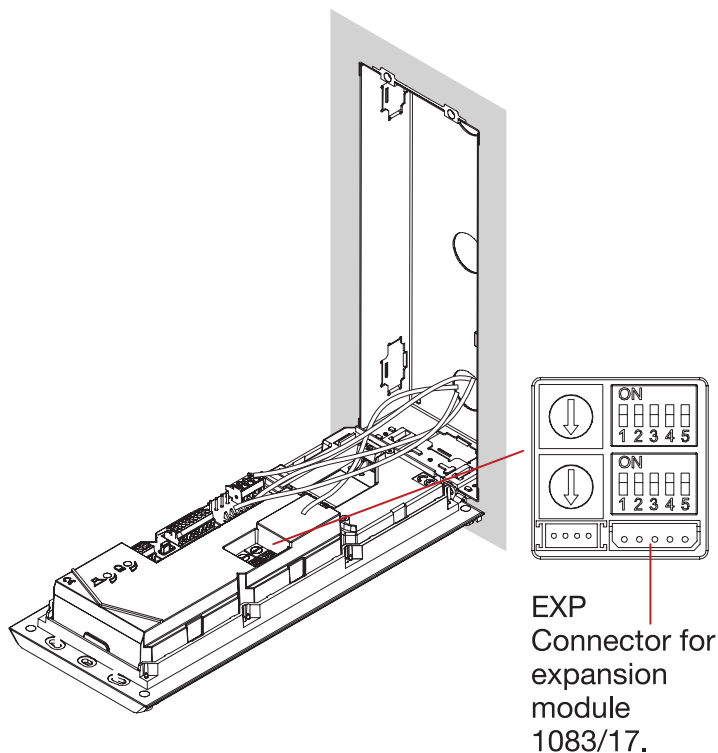




The 1083/62 module has two call buttons which are pre-configured with codes 0 and 1. These buttons do not connect to the 1083/17.

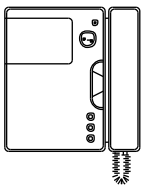
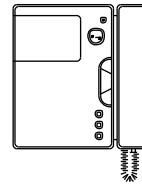
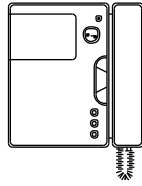
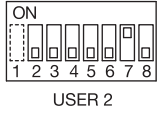
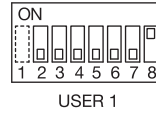
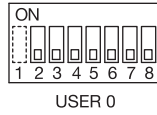
The first button module must connect to the P1-P4 connector of the 1083/17, the next button module connects to the P5-P8 connector and so on.

Each 1083/17 can have a maximum of sixteen buttons connected. Up to four 1083/17 can be used to give a maximum of sixty four buttons.



Note – The OUTPUT connector of the first 1083/17 connects to the 1083/62 EXP connector.

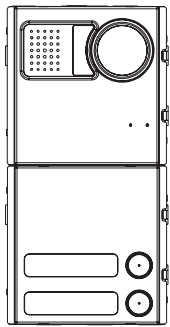
EXP  
Connector for  
expansion  
module  
1083/17.



The first button will call the monitor whose DIP switches are set for USER 0

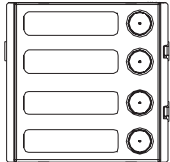
The second button will call the monitor whose DIP switches are set for USER 1

The third button (first button on the next button module connected into input 1 of the 1083/17 expander) will call the monitor whose DIP switches are set for USER2 and so on up to a maximum of 64 buttons



USER = 0

USER = 1

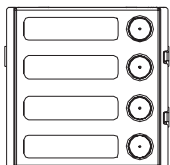


USER = 2

USER = 3

USER = 4

USER = 5

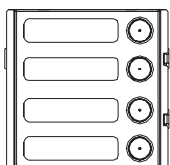
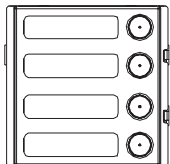


USER = 6

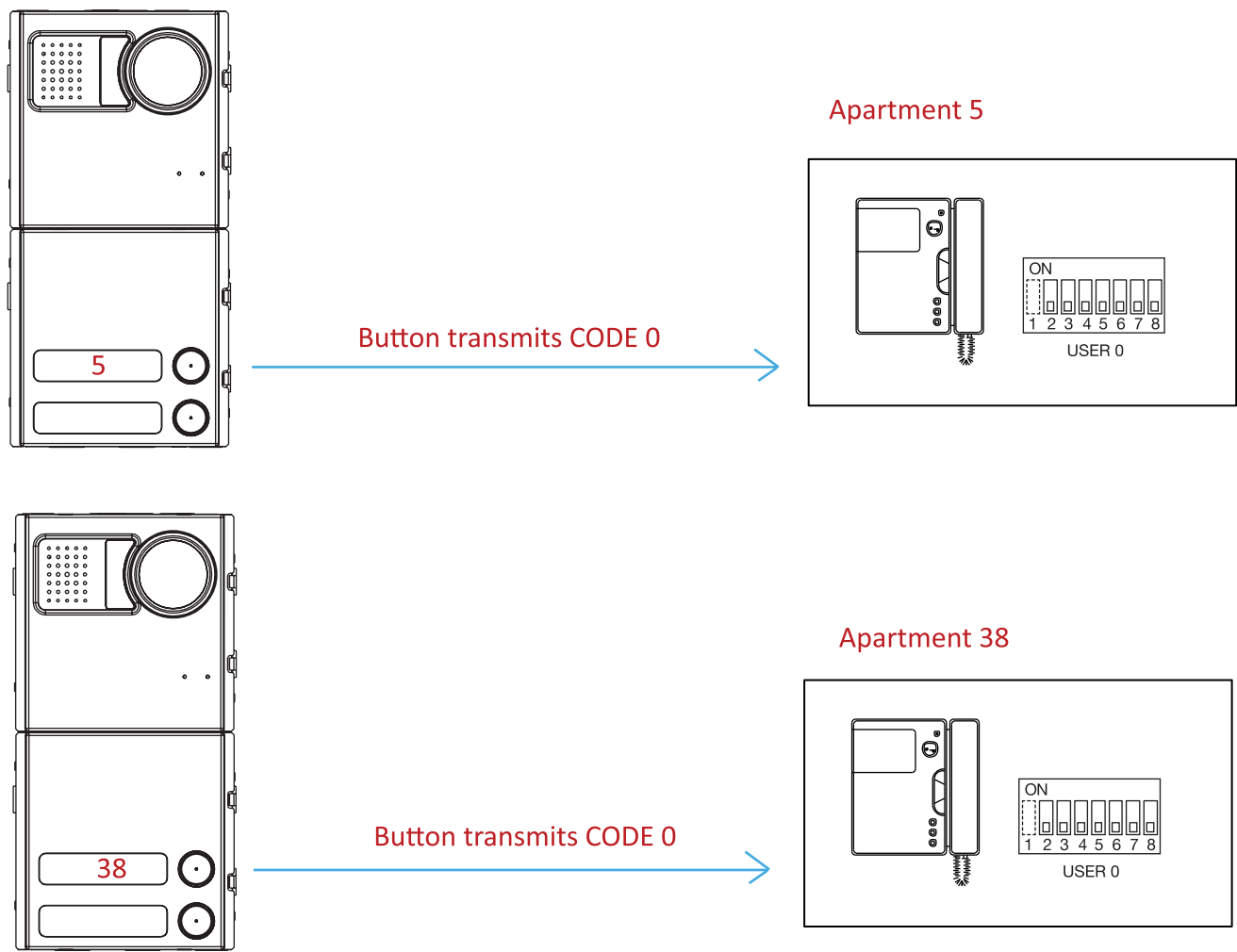
USER = 7

USER = 8

USER = 9



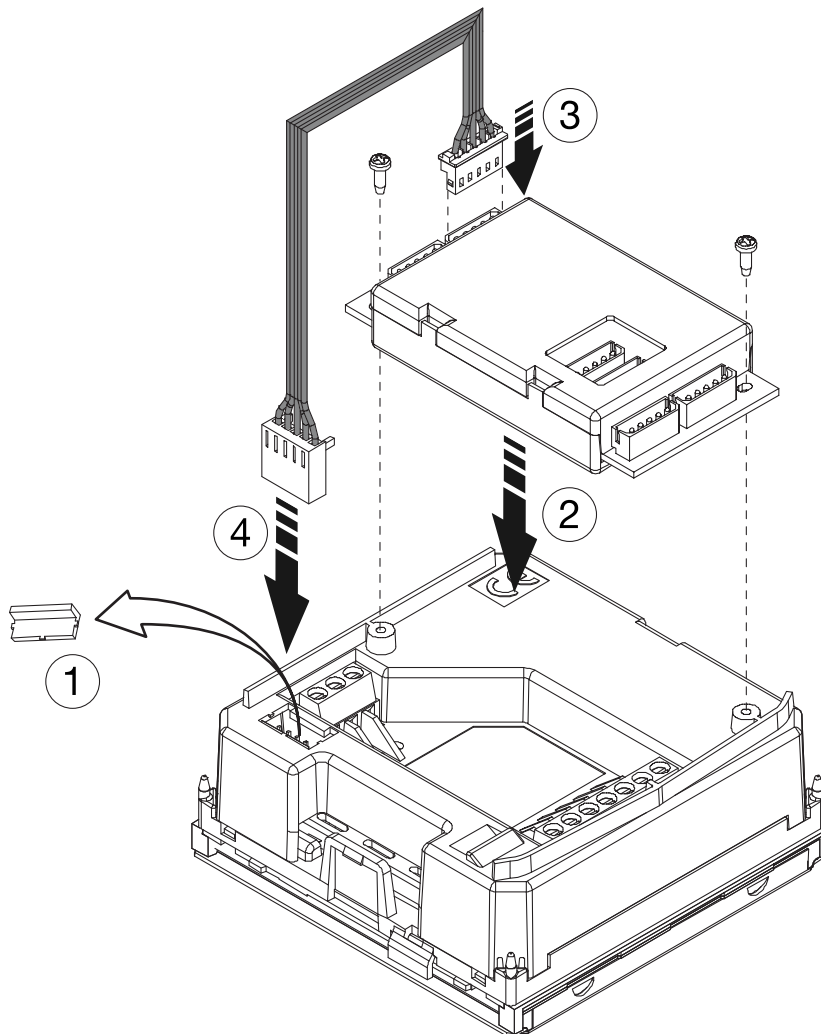
The apartment number (address) and the engraving on the button nameplate are not relevant as far as the system is concerned. The first button always transmits CODE0, the second button CODE1 and so on.



## **1083/17 installation**

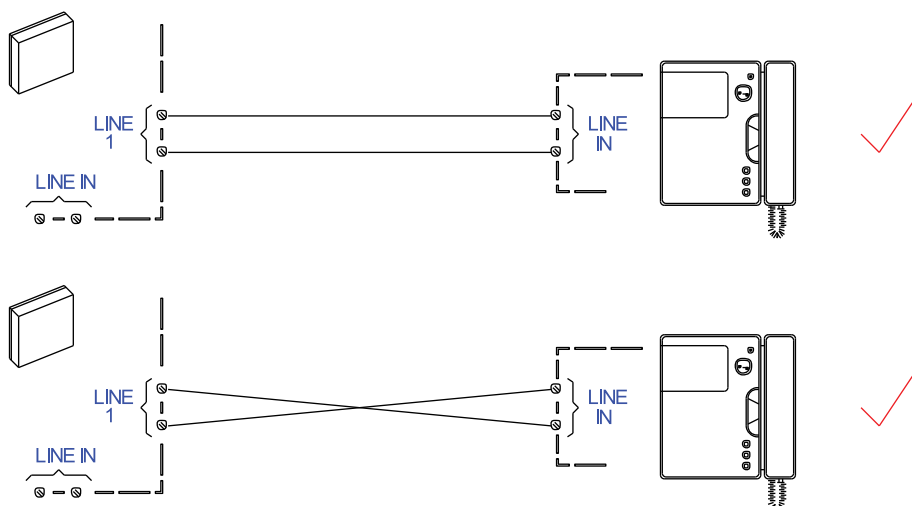
To install the 1083/17 in a three or four button module (1158/13 or 1158/14) proceed as follows –

- ① Remove the plastic insert tab from the rear of the button module.
- ② Fix the 1083/17 to the rear of the button module using the screws provided.
- ③ Plug the ribbon cable into the connector P4 P3 P2 P1 C. This is the input for the first button module.
- ④ Plug the other end into the connector on the rear of the button module.



## Installation notes -

- All of the 2Voice connections are non-polarised. They can be connected either way round –



- Never 'double up' cores to increase the conductor size –



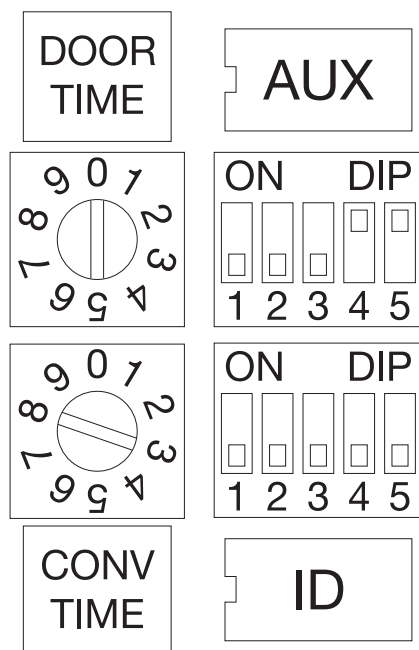
- Only untwist pairs as far as is necessary to make the connection –



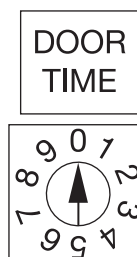
- Do not leave cables connected to the 2Voice system at one end and un-terminated at the other end –



## Entry panel settings



A number of adjustments can be made to the system using switches on the 1083/62



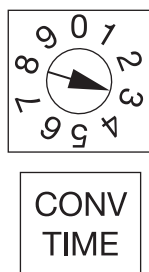
### DOOR (release) TIME

Position 0 = 1 second  
Position 1 = 10 seconds  
Position 2 = 20 seconds

Position 3 = 30 seconds  
Position 4 = 40 seconds  
Position 5 = 50 seconds

Position 6 = 60 seconds  
Position 7 = 70 seconds  
Position 8 = 80 seconds

Position 9 = 90 seconds/advanced programming



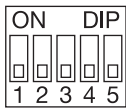
**BUSY (Conversation) TIME** – For example in a system with two entry panels, when a visitor calls from entry panel one the BUSY TIME starts. During this time a second visitor trying to call from entry panel two would hear a busy tone. After the time has elapsed the second visitor would be able to make a call. The BUSY TIME can be set as follows –

Position 0 = 1 second  
Position 1 = 10 seconds  
Position 2 = 20 seconds

Position 3 = 30 seconds  
Position 4 = 40 seconds  
Position 5 = 50 seconds

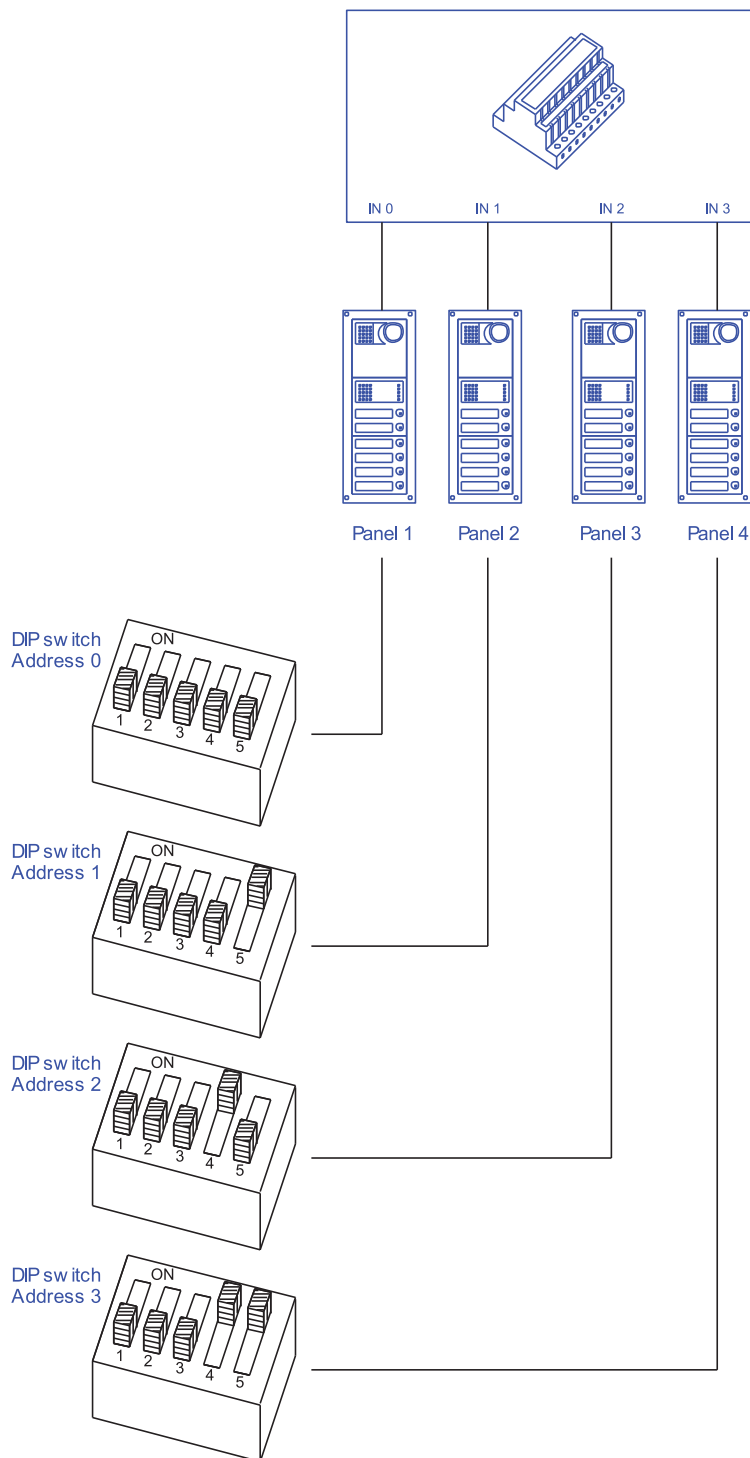
Position 6 = 60 seconds  
Position 7 & 8 = 70 seconds

Position 9 = advanced programming



## Entry panel ID

The entry panel ID (identification number) must be set as per the following diagram -

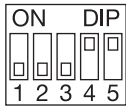


If there is only one entry panel the address is 0 (the default setting).

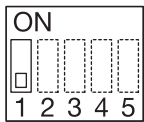
For larger multi-block systems, refer to the specific installation diagram provided.



## AUX Auxiliary settings



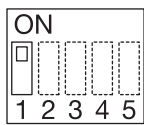
### Switch 1



Main

MAIN entry panel – the panel calls all of the monitors in the system.

(If there is only one entry panel it is always a MAIN panel – the default setting).

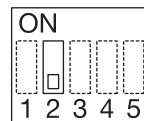


Secondary

Secondary entry panel – the panel calls a specific group of monitors in the system.

(Only used in multi-block systems. Refer to the specific installation diagram provided).

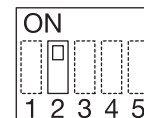
### Switch 2



Secondary 0

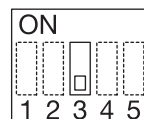
This switch is only relevant in multi-block systems.

Refer to the specific installation diagram provided.



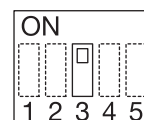
Secondary 1

### Switch 3



Free

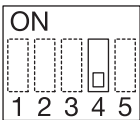
With Switch 3 off, the lock release is FREE which means that without first being called, the lock release button on the apartment monitor can open the door.



Secure

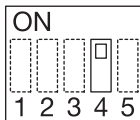
With Switch 3 on, the lock release is SECURE which means that the lock release button on the apartment monitor will only open the door if the monitor has first been called.

Switch 4



Enabled

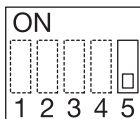
With the 2Voice system there are a number of functions that the user can activate from their apartment monitor, such as viewing the entry panel camera and internal intercom, which cause the system to become ‘busy’ thus preventing visitors from calling other apartments. It is possible for calls made by visitors to take priority and interrupt these functions.



Disabled

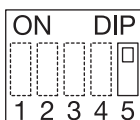
With Switch 4 off calls from entry panels will take priority.

Switch 5



Enabled  
illuminators

The entry panel camera illumination leds can be turned off if night lighting is sufficient, using Switch 5.



Disabled  
illuminators

Default settings are –

Switch 1	Type of panel	Main
Switch 2	Secondary panel number	0
Switch 3	Lock release type	Free
Switch 4	Interruption	No
Switch 5	Camera leds	On
Busy Time		30 seconds
Lock release time		1 second
Entry panel number		0

## Fault Finding

### **No Call, No picture, No speech** (either one way or both directions)

Use the following information for individual monitor faults ie other monitors in the system work ok. Where the same fault is present on all monitors follow the Fault Finding Flowchart.

In this order -

Check that the monitor is not set to 'mute' – see the user instructions for the monitor.

Check that the DIP switches have been set correctly and that the termination jumper is on.

Measure DC volts at the LINE X connection of the 1083/55 distributor where the monitor in question is connected. The reading should be between 38V and 48V DC. If it is not then disconnect the LINE X connection, wait two minutes and re-measure DC volts at the LINE connector. If the voltage is now correct, the fault is either the cable or the monitor (or wall bracket).

Swap the monitor for a known working monitor

Swap the wall bracket (where fitted) for a known working unit.

At the 1083/55 video distributor, disconnect the LINE X connection where the monitor in question is connected. Take the monitor (and wall bracket) from the apartment and connect on a new short piece of cable directly to the video distributor.

The guide assumes that all DIP switches and jumpers have been set correctly. Check first.

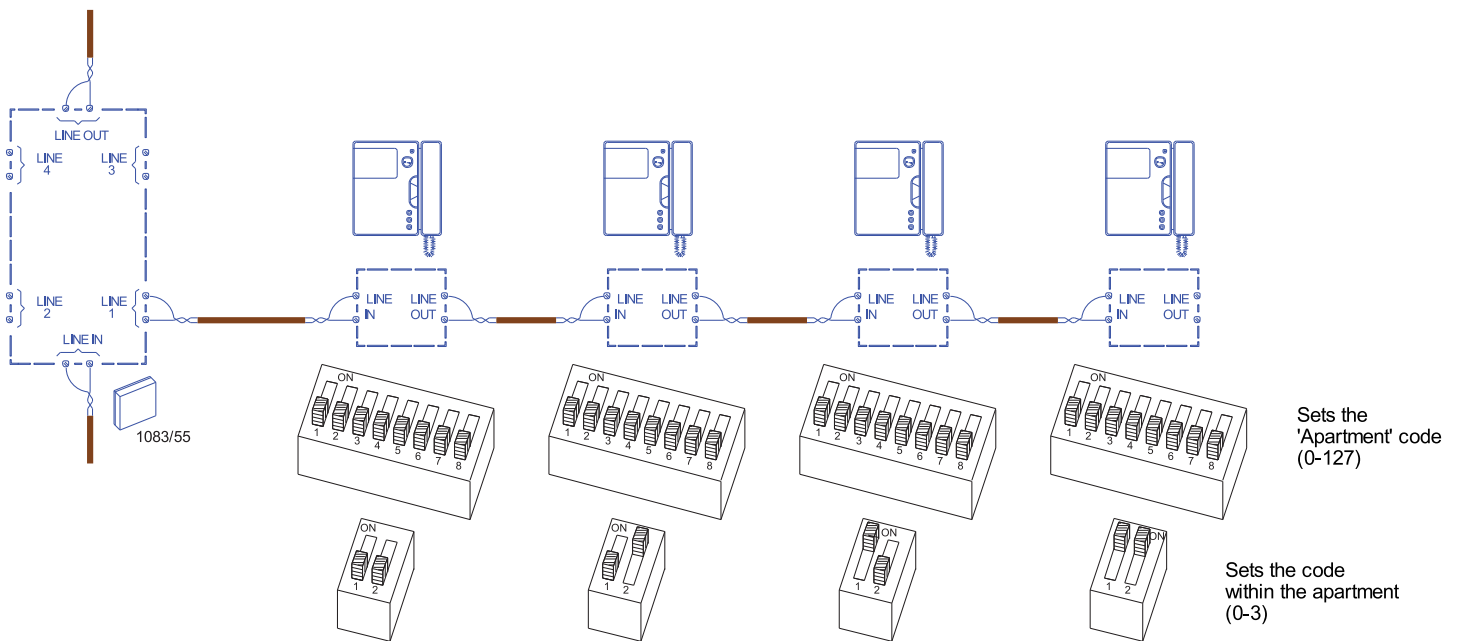




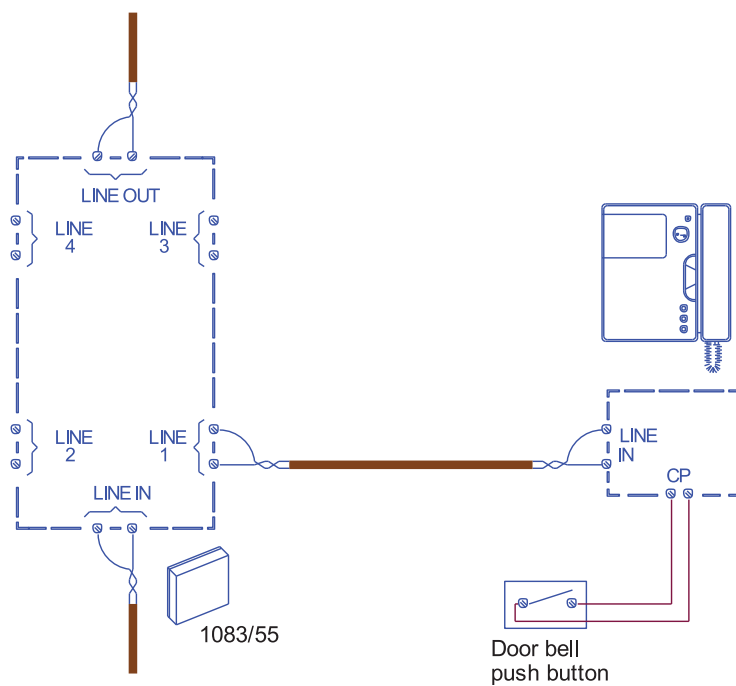
## Additional 2Voice features

## Four monitors in one apartment

Up to four monitors can be installed within an apartment with no additional equipment –



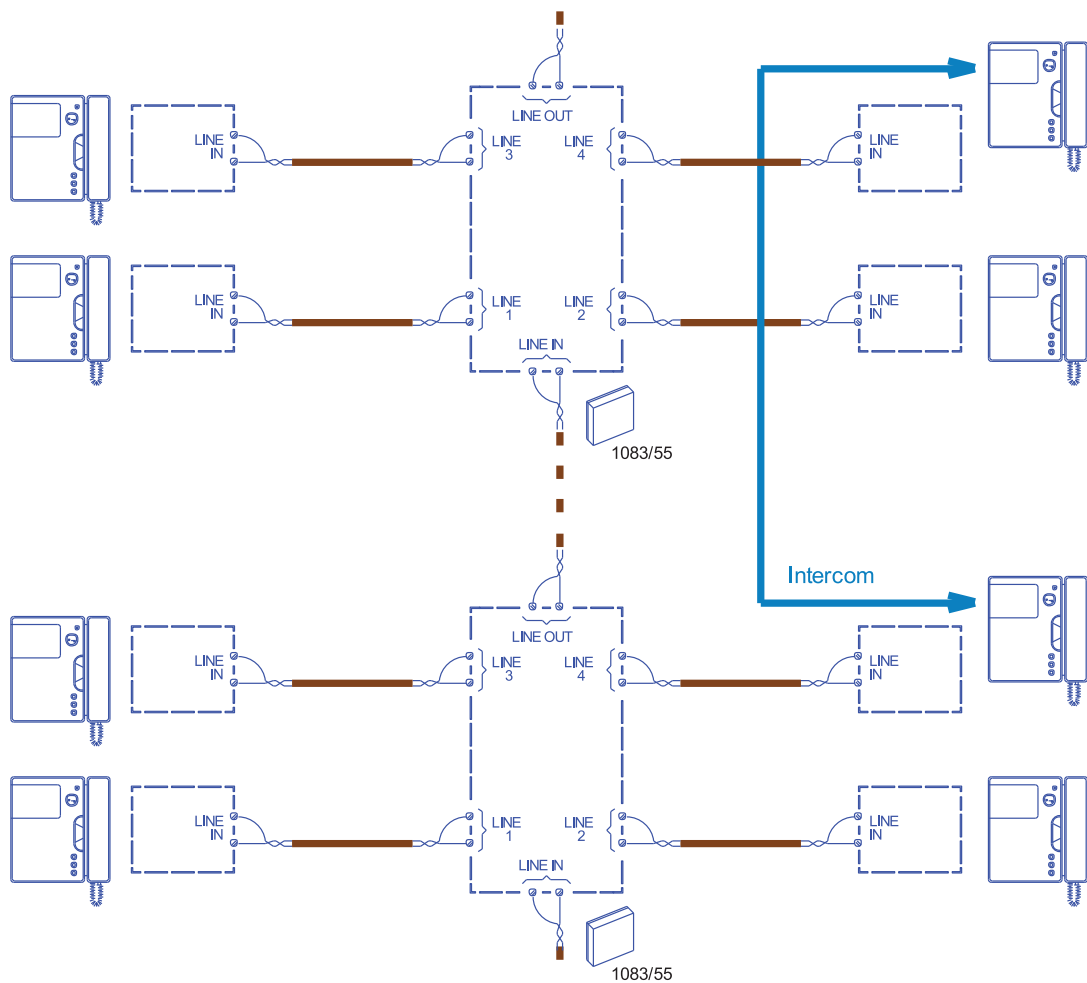
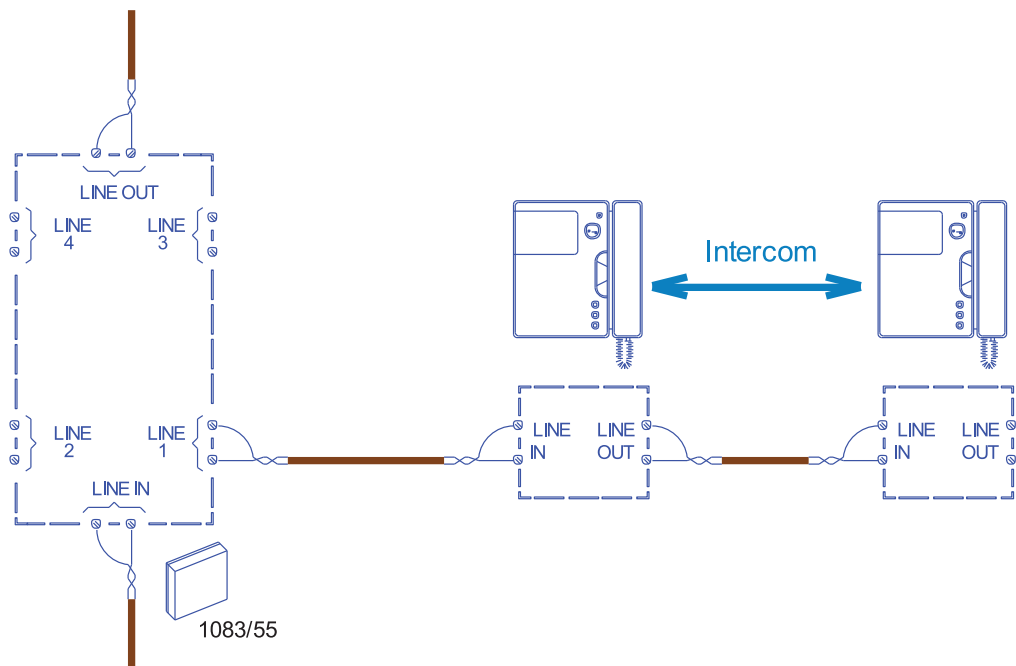
Door bell



The apartment door bell push button can be connected directly to the CP terminals of the monitor/monitor bracket

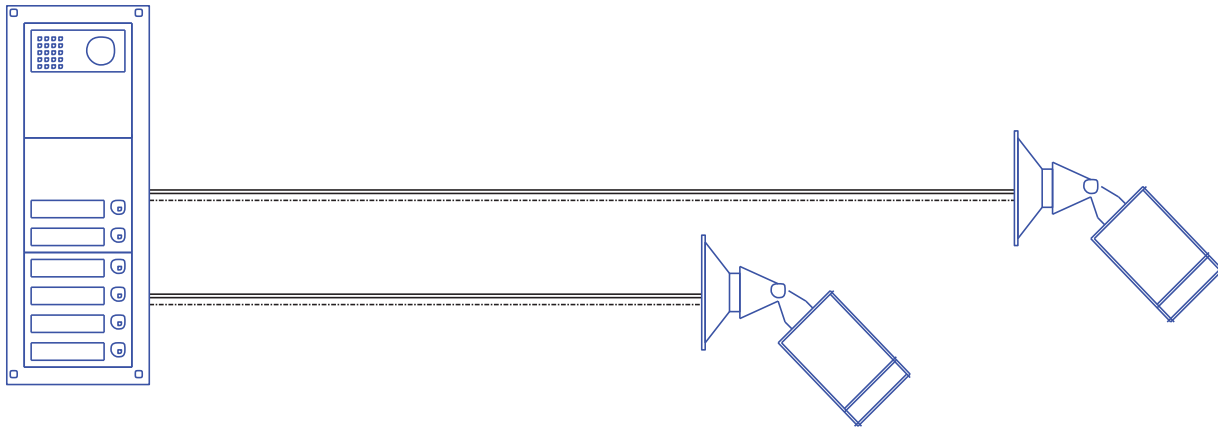
# Intercom

Without any additional equipment it is possible to call from one monitor to another (intercom) either within the same apartment or from one apartment to another. For further details see the full 2Voice Technical Manual MT124-027, the User Guides supplied with the monitor, or call Urmet Technical Support.

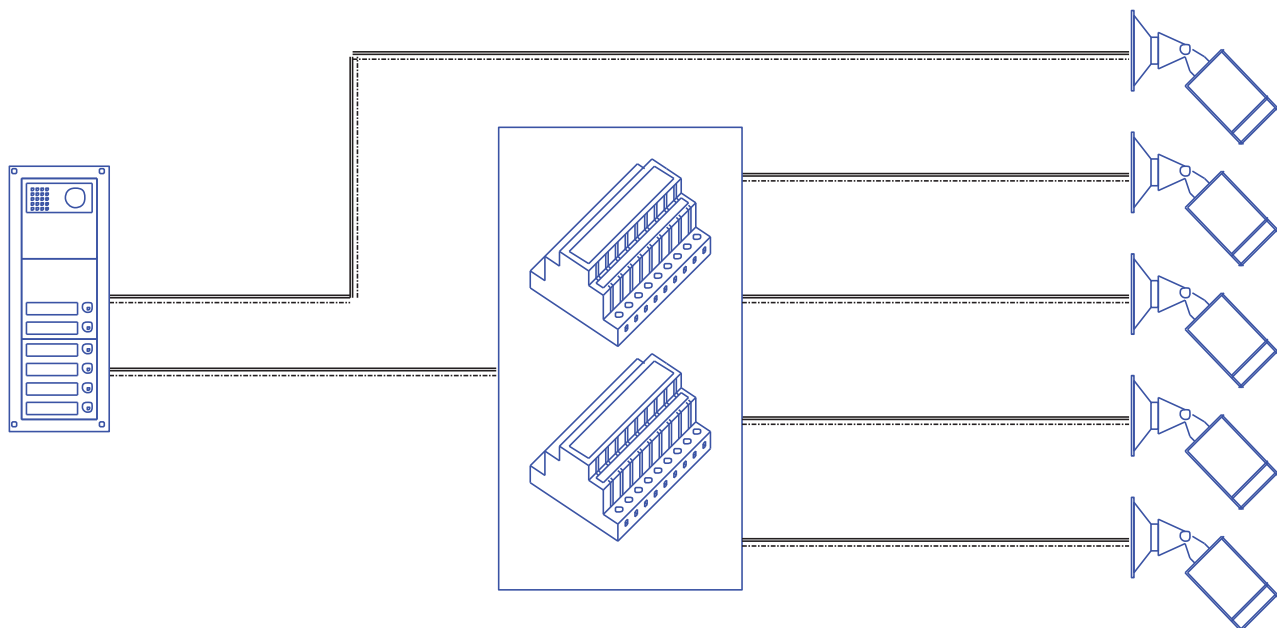


## Additional cameras

Without any additional equipment two remote CCTV cameras can be connected directly to the entry panel and the image from the camera can be viewed on the apartment monitor at any time –



With additional equipment up to five remote CCTV cameras can be connected to the entry panel and the images from the cameras can be viewed and cycled on the apartment monitor at any time –



For further details see the full *2Voice* Technical Manual MT124-027.




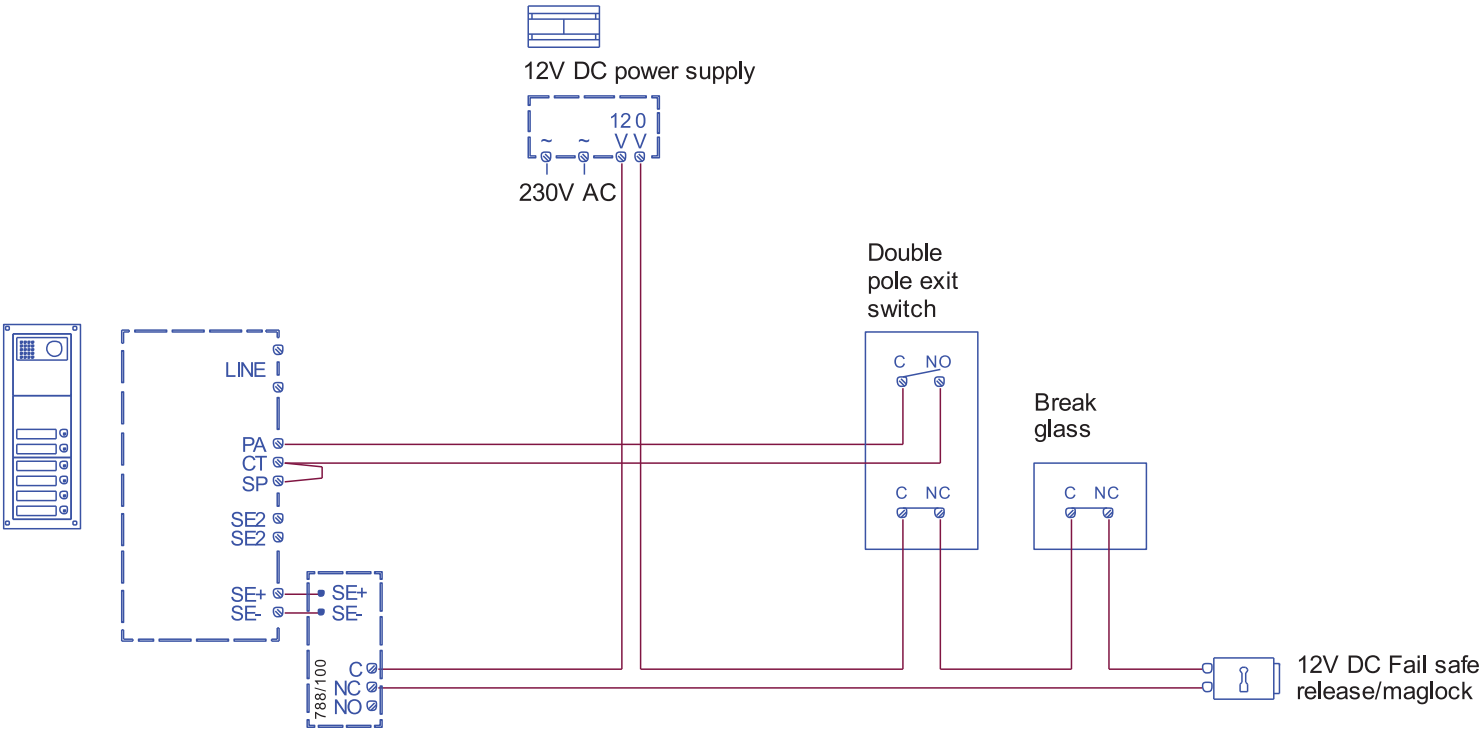
# Lock release outputs

- 1. Time programmable relay output (C, NO & NC)


C  
NO  
NC

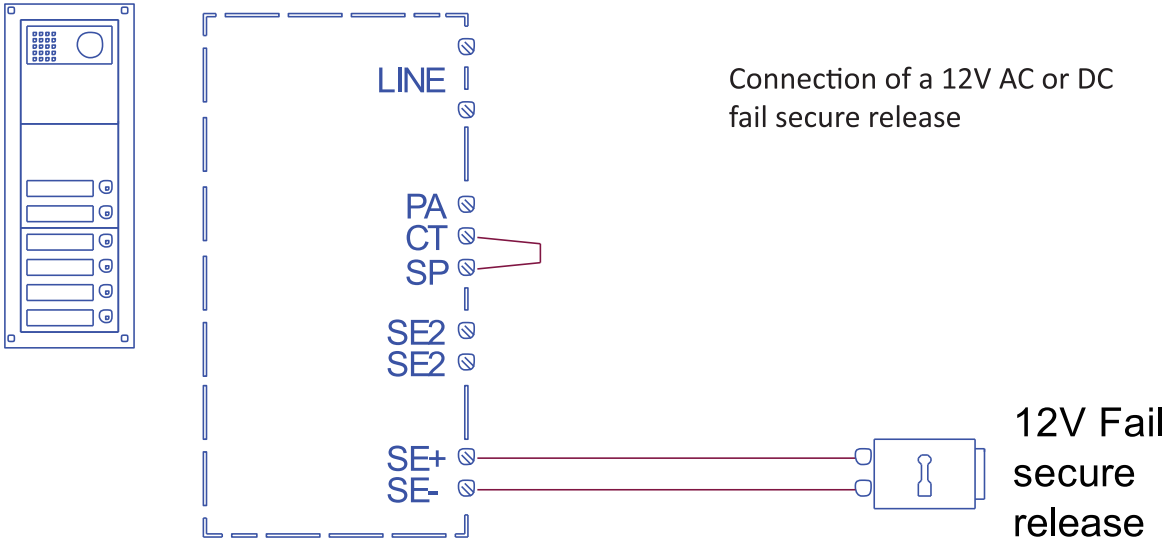
}

Volt free clean contact output.  
Triggered by pressing the  button on the apartment monitor.  
The relay time can be programmed from 1 to 90 seconds.



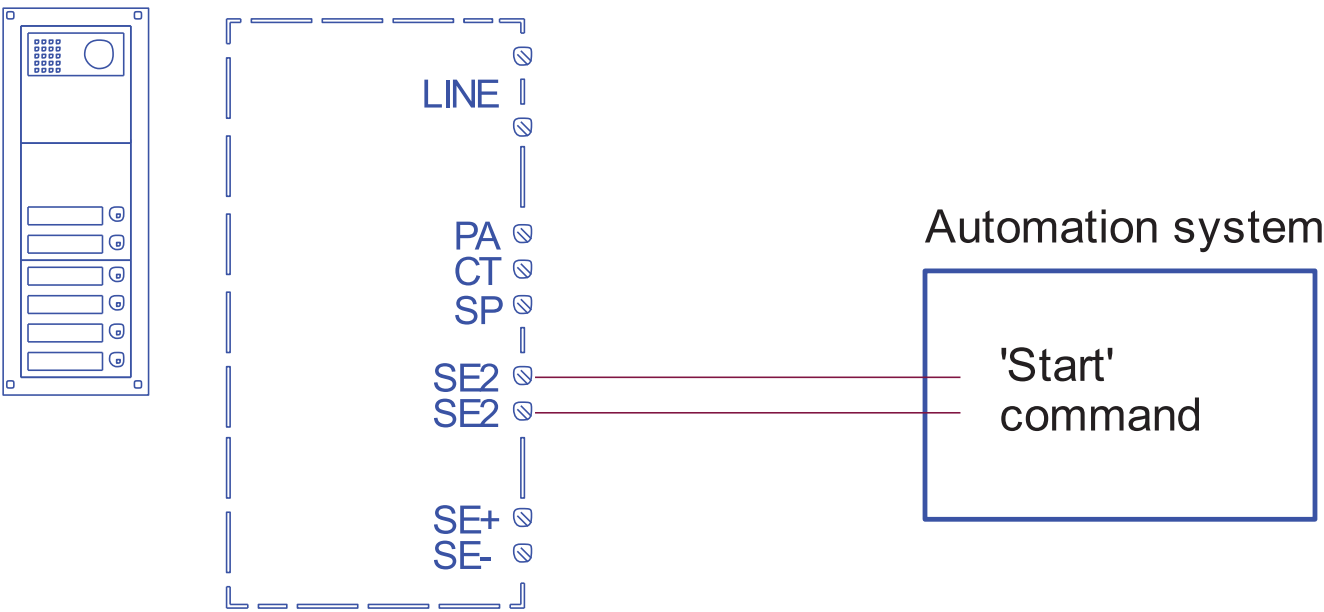
2. Direct connection for fail secure releases (capacitance discharge).

SE+ } Capacitance discharge output.  
SE- } Triggered by pressing the  button on the apartment monitor.  
The relay time can be programmed from 1 to 90 seconds. This output can be connected directly to **fail secure** electric releases (12V @ 600mA/24V @ 300mA)

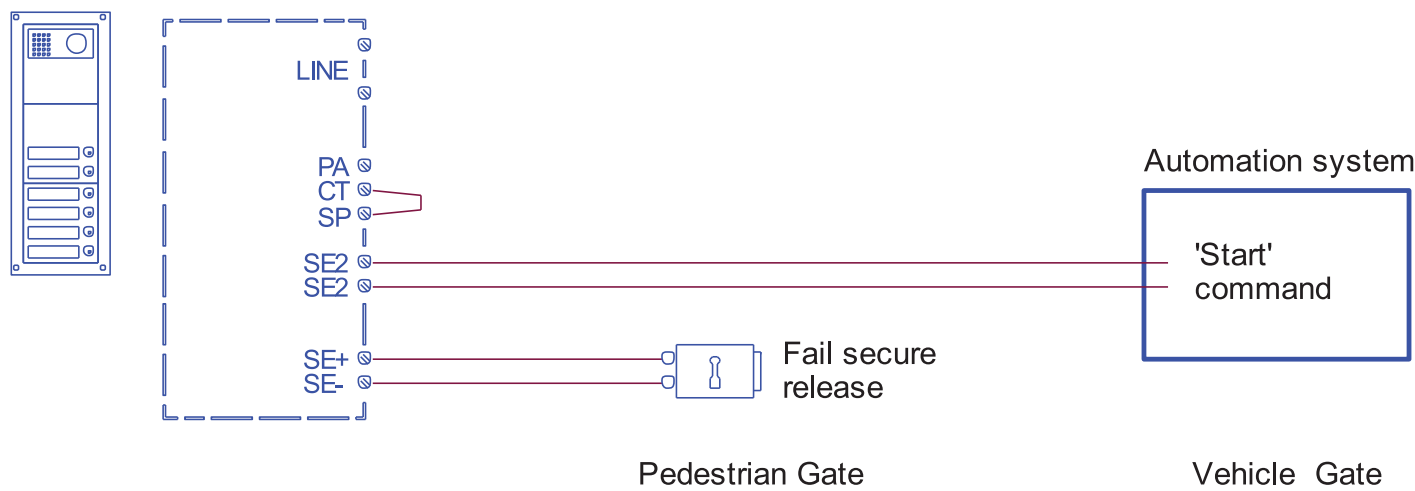


3. Secondary volt free clean contact output. Normally open.

Volt free clean contact output. **Normally open.**  
Triggered by pressing an auxiliary button on the apartment monitor.  
The relay time is set at 1 second.  
This output is typically used to trigger automation equipment for example for an automatic gate.

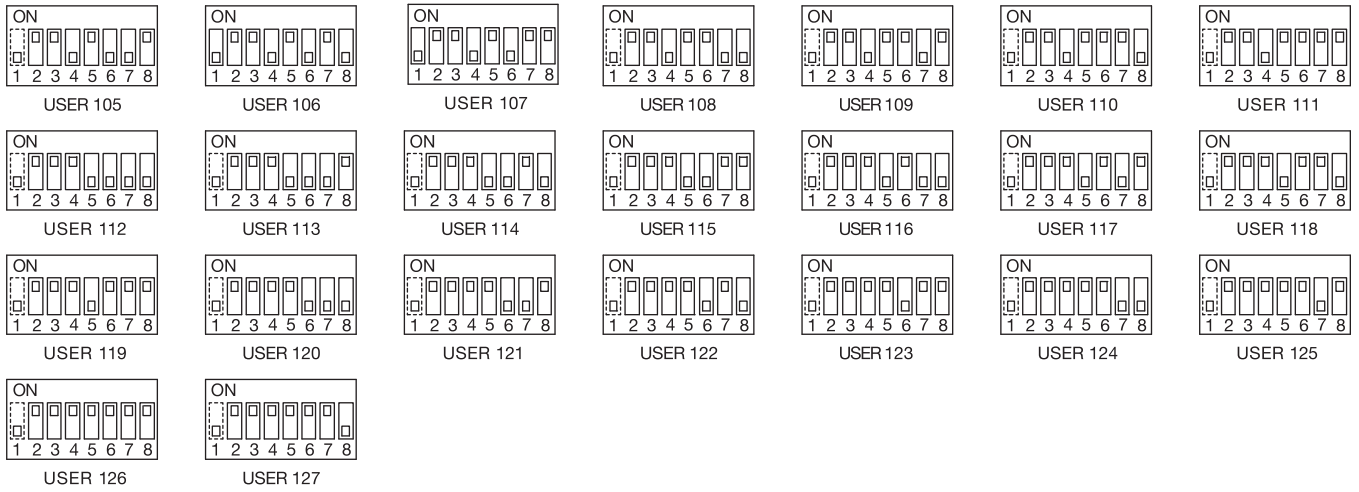


Using both outputs from the entry panel it is possible for one entry panel to control for example a pedestrian gate and a vehicle gate without additional equipment –



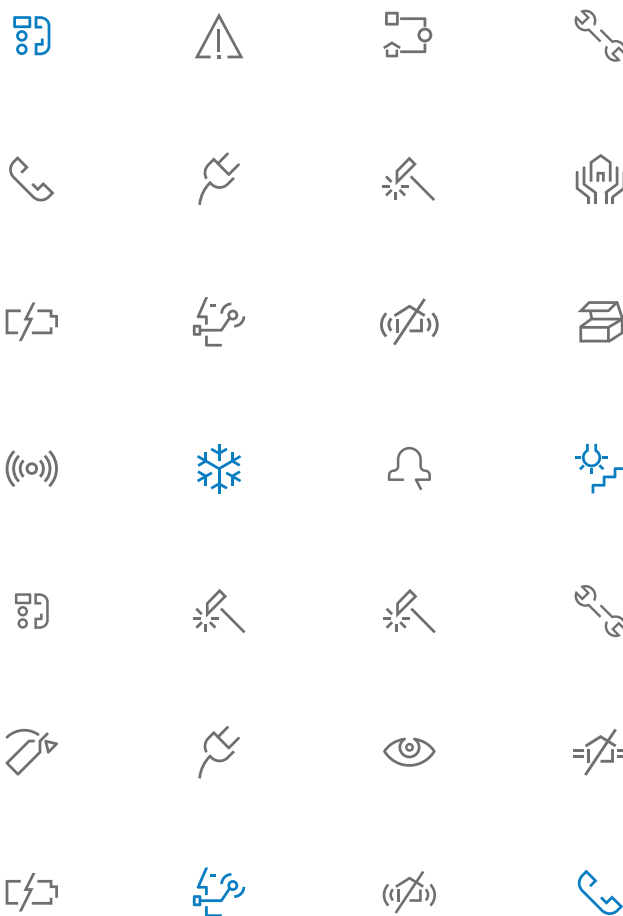
# Monitor DIP switch settings

USER 0	USER 1	USER 2	USER 3	USER 4	USER 5	USER 6
USER 7	USER 8	USER 9	USER 10	USER 11	USER 12	USER 13
USER 14	USER 15	USER 16	USER 17	USER 18	USER 19	USER 20
USER 21	USER 22	USER 23	USER 24	USER 25	USER 26	USER 27
USER 28	USER 29	USER 30	USER 31	USER 32	USER 33	USER 34
USER 35	USER 36	USER 37	USER 38	USER 39	USER 40	USER 41
USER 42	USER 43	USER 44	USER 45	USER 46	USER 47	USER 48
USER 49	USER 50	USER 51	USER 52	USER 53	USER 54	USER 55
USER 56	USER 57	USER 58	USER 59	USER 60	USER 61	USER 62
USER 63	USER 64	USER 65	USER 66	USER 67	USER 68	USER 69
USER 70	USER 71	USER 72	USER 73	USER 74	USER 75	USER 76
USER 77	USER 78	USER 79	USER 80	USER 81	USER 82	USER 83
USER 84	USER 85	USER 86	USER 87	USER 88	USER 89	USER 90
USER 91	USER 92	USER 93	USER 94	USER 95	USER 96	USER 97
USER 98	USER 99	USER 100	USER 101	USER 102	USER 103	USER 104



Further technical information can be found in the full **2Voice Technical Manual MT124-027**





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