



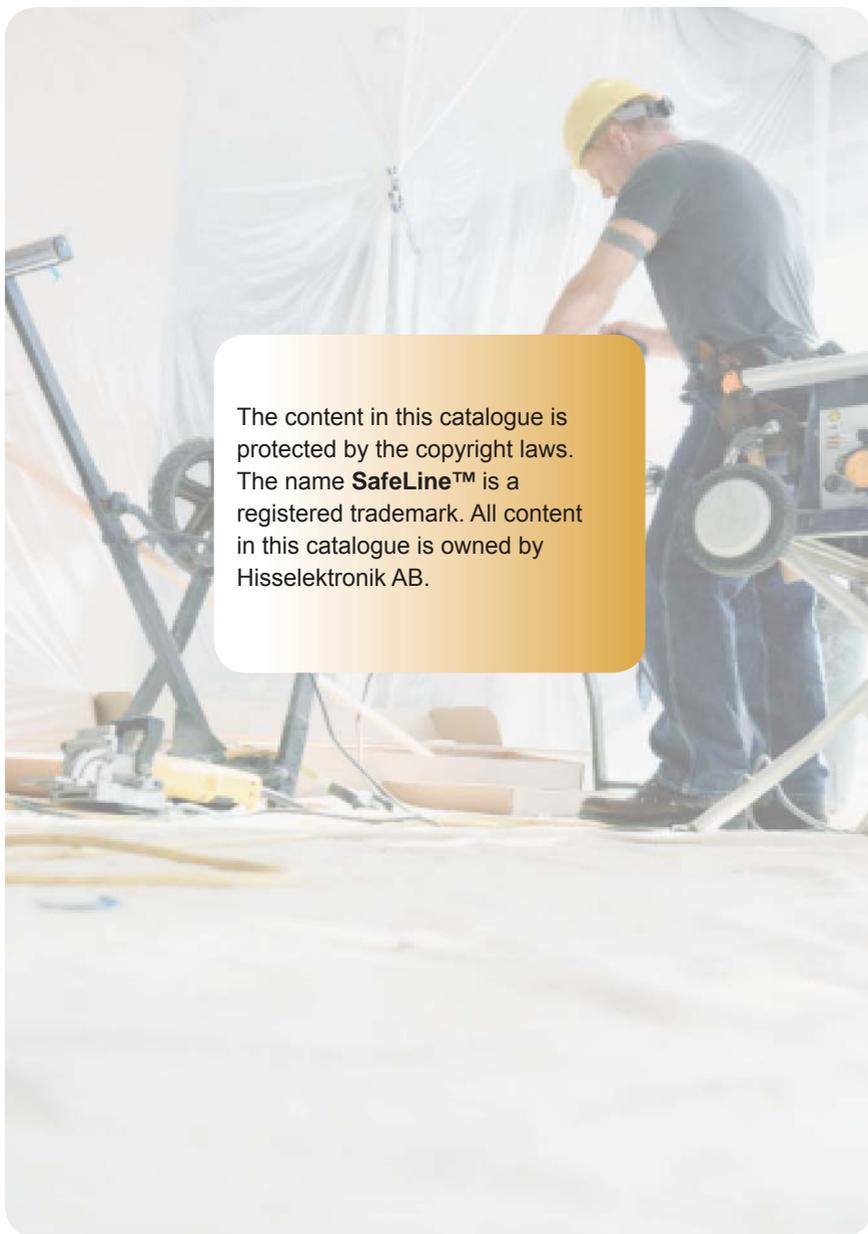
Eng v2.01

# VV4 Manual

  
**Hisselektronik**  
[www.hisselektronik.se](http://www.hisselektronik.se)

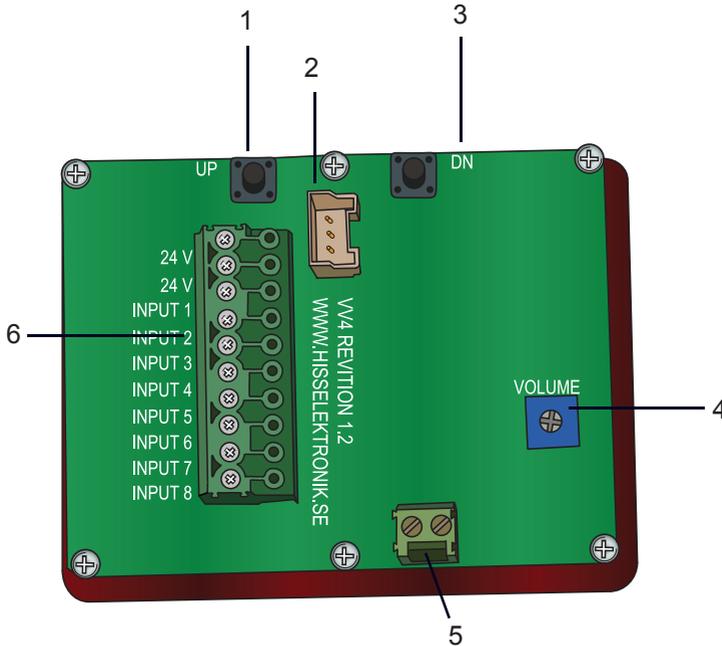
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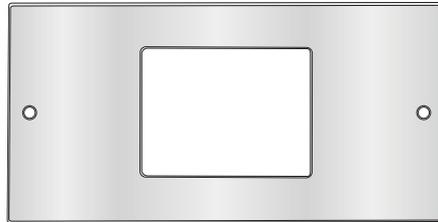
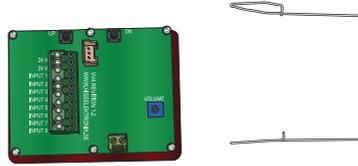
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## Introduction

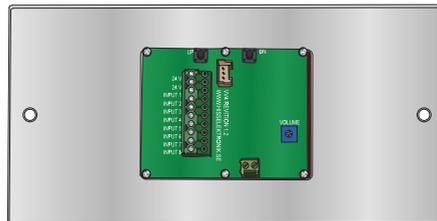


1. UP (Up - used when programming).
2. Rs232 PC connection.
3. DN (Down - used when programming).
4. Volume control.
5. Connector for speaker (4-16Ω).
6. Connector for inputs and power.

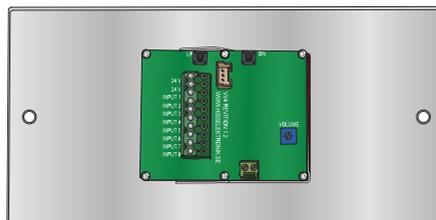
## Mounting



1. Mount the floor indicator in a hole 58x76 mm



2. The retaining clip is mounted on the backside.  
Fasten the clips end pins in the two holes on the side of the lens.

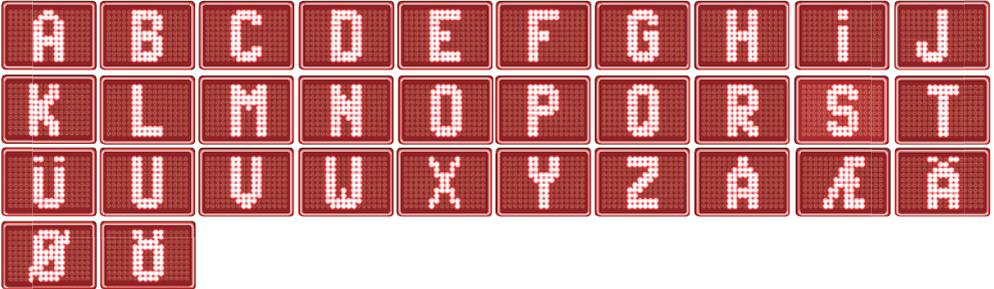


The following signs can be displayed:

0-9



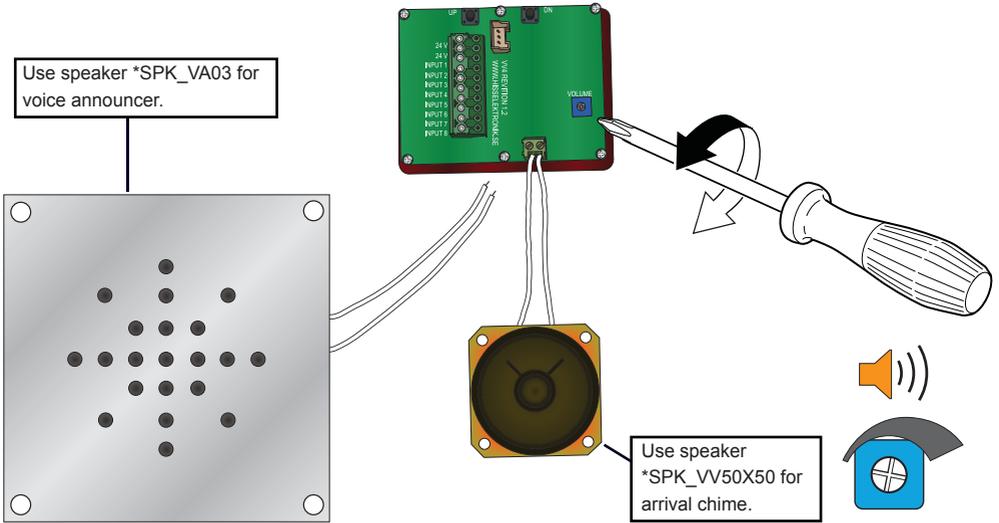
A-Z, Å, Ä, Ö, Æ, Ø, Ü



Symbols



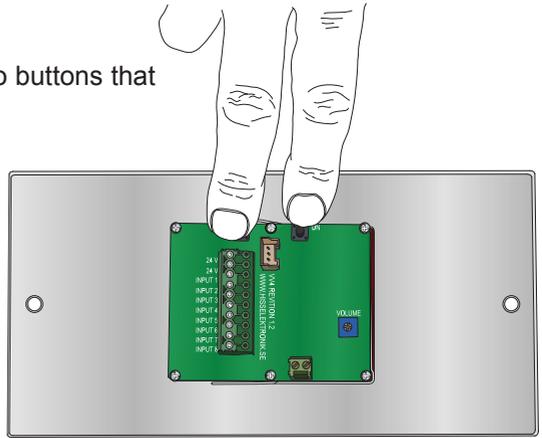
## Volume control



## Programming mode

On the back side of VV4, there are two buttons that are marked "UP" & "DN" (down).

If both buttons are pressed simultaneously for 3-seconds the unit will be set to programming mode.



The display now show the digit "0" rolling in horizontally from the right, this means that you can choose what digits or signs you want the floor display to show on floor "0"

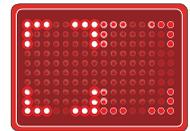


**Note!**



If the floor designation does not need to be changed: Press both buttons for 3 seconds to directly go to the next step of programming.

Shortly thereafter, two boxes are shown and the left one is flashing.



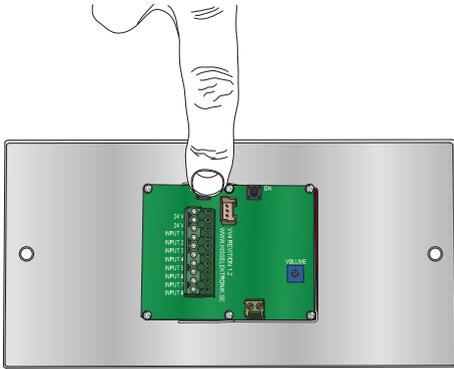
**Note!**



"Floor 0" corresponds to "no input is activated" this is only used together with control panels with binary code that starts with "0" (check with your control panel manufacturer).

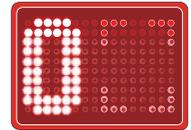
If no sign is programmed on "floor 0" the display will be "latched" this means that if the input signal disappears, the display will continue to show the last floor until a new signal is triggered. This utility can come in use when installing VV4 in older lifts that are relay-controlled.

By using the "up" or "down" button the left sign can now be changed.

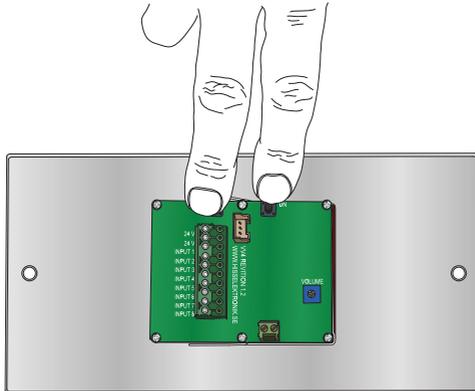


By pressing "up" once a "0" will start flashing. Pressing "up" once more and a "1" will start flashing instead. Continue until you come to the sign you want to use.

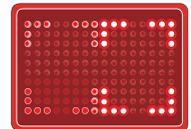
Choose what sign you want to show on the left side.



Thereafter press the two buttons simultaneously for 0.5 second.



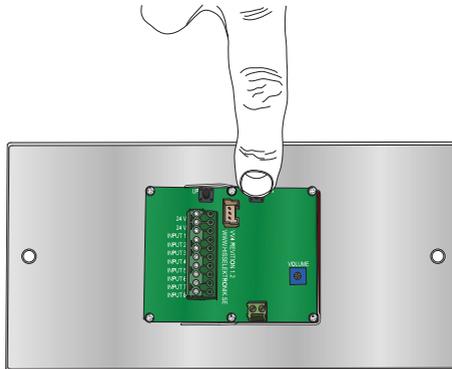
The right box will now start to flash.



**Note!**

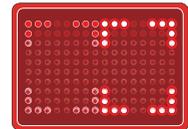
If single signs are being programmed ex. B,E,1, etc. place the sign on the right side this will display the sign on the middle of the display.

By using the "up" or "down" button the right sign can now be changed.

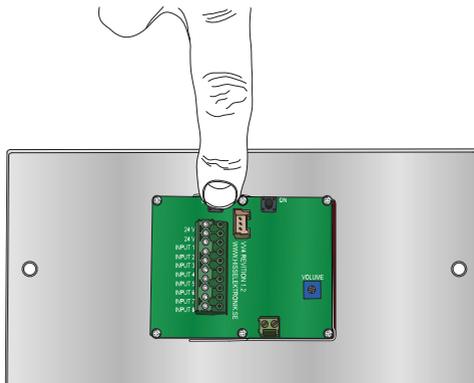


By pressing "up" once a "0" will start flashing. Pressing "up" once more and a "1" will start flashing instead. Continue until you come to the sign you want to use.

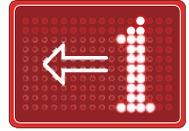
Choose what sign you want to show on the right side.



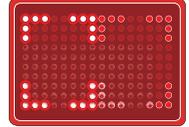
Thereafter press the two buttons simultaneously for 0.5 second to change the next floor.



The display is now rolling "1" horizontally.  
This means that the floor 1 is ready to be programmed.



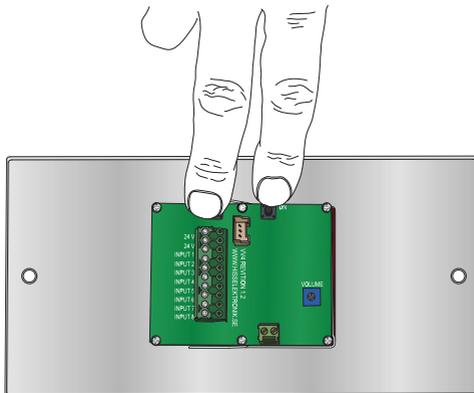
Shortly thereafter, two boxes are shown and the left one is flashing.



By using the "up" or "down" button the left sign can now be changed.  
Program this floor the same way as the previous floor.

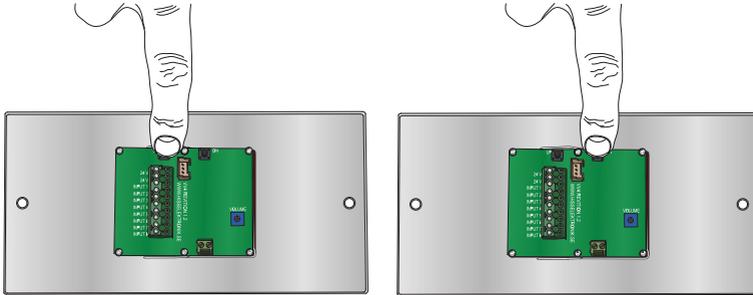
Repeat this procedure until all the floors you want to be displayed are programmed.

When all floors have been programmed:  
**Press the two buttons simultaneously for 3 seconds,**  
this will take you to the next step of programming.

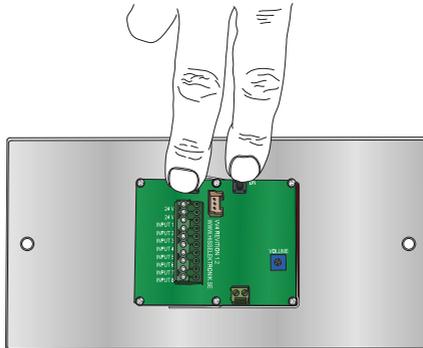


## Addressing floor indicator (select witch floor the display will be installed).

The VV4 now displays the text "SELECT FLOOR".  
This information is being used for showing direction arrows and arrival chime.  
To select the floor, use the buttons to step up or down between the floors you have programmed.



When the display shows the digit that corresponds to the floor it will be mounted on, select it, by pressing the two buttons simultaneously for 0.5 second.



## Select Arrival chime 3-tones/EN81-70.

The VV4 now displays the text "SELECT TONES".  
Use the buttons to step up or down between 3-tones or EN81-70.  
When the display shows the right tones select it, by pressing the two buttons simultaneously for 0.5 second.



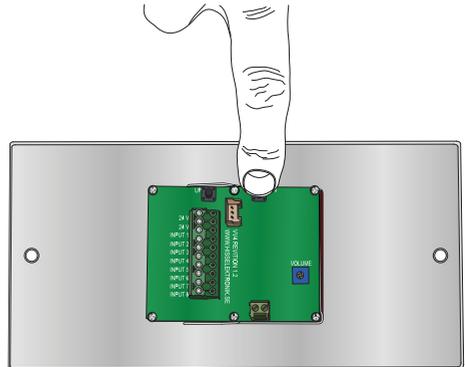
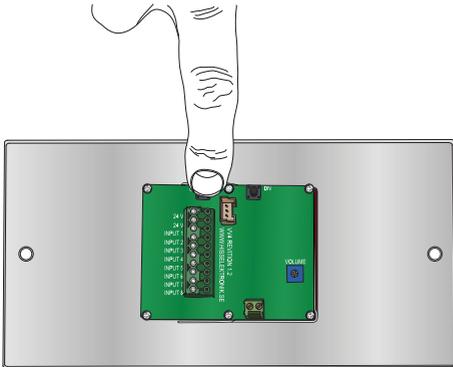
### EN81-70:

Arrival chime EN81-70 means there will be 1 tone up and 2 tones down.

## Select input format.

The display now shows the text "SELECT INPUT FORMAT".

Select between "BINARY", "DECIMAL" or "GRAY" using the up or down buttons.



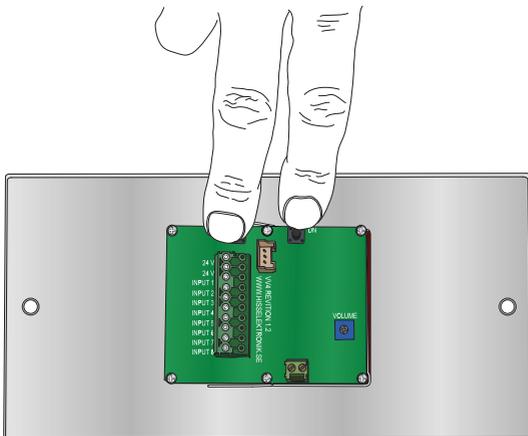
Binary=Binary code.

Decimal= One signal to each floor (this sets the limit to maximum 8 floors).

Gray=Gray code.

Select FORMAT by pressing the two buttons simultaneously for 0.5 second.

Consult your control-panel manufacturer if you don't know witch FORMAT to select.



### **Note!**

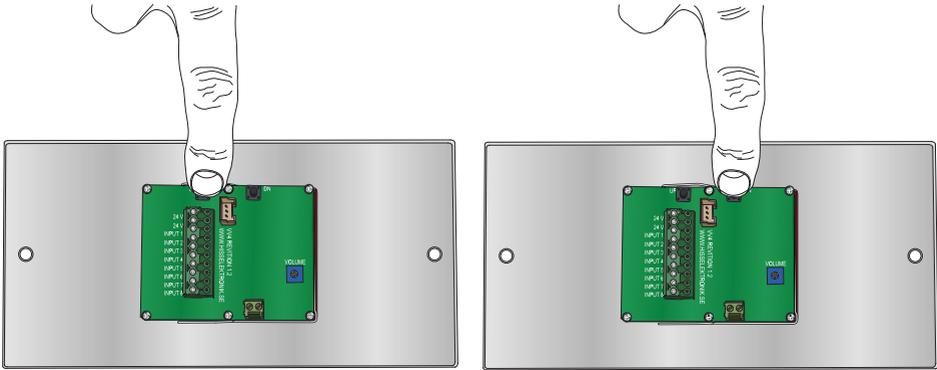
By choosing "Decimal" next step of programming will be excluded.

### Select fixed message.

The display now shows the text "SELECT FIXED MESSAGES".

Select fixed message by using the up or down buttons.

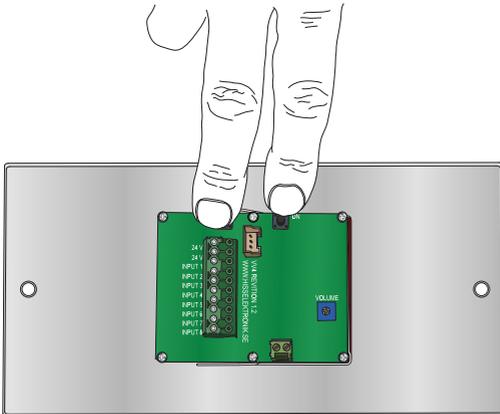
**NOTE!** Fixed messages will not be shown when the interface signal is set to Decimal signals.



"OVERLOAD", "SERVICE", "OUT OF SERVICE"

This fixed message will be displayed when a signal is put on input 7.

Press the two buttons simultaneously for 0.5 second to exit the programming mode.



**Tip!**

With the software SafeLine Pro the fixed messages can easily be changed.

*The programming is now completed.*



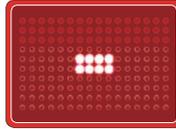
**To verify your programming.**

To check what floors have been programmed: Press the "UP" button for 3 seconds, the display will now show all the signs that have been programmed on the floors.

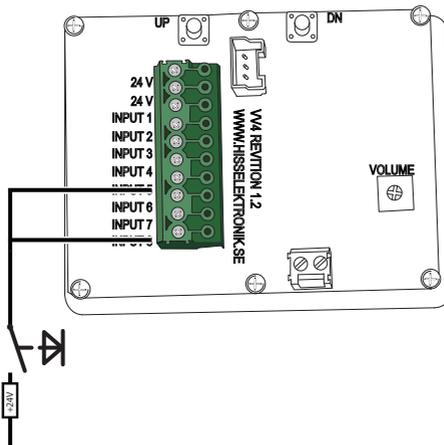
## OVERLOAD:

If you want to use an input to display "OVERLOAD" choose:

1. At programming step 3 "ADDRESSING FLOOR INDICATOR" select the "-"minus sign at "SELECT FLOOR".



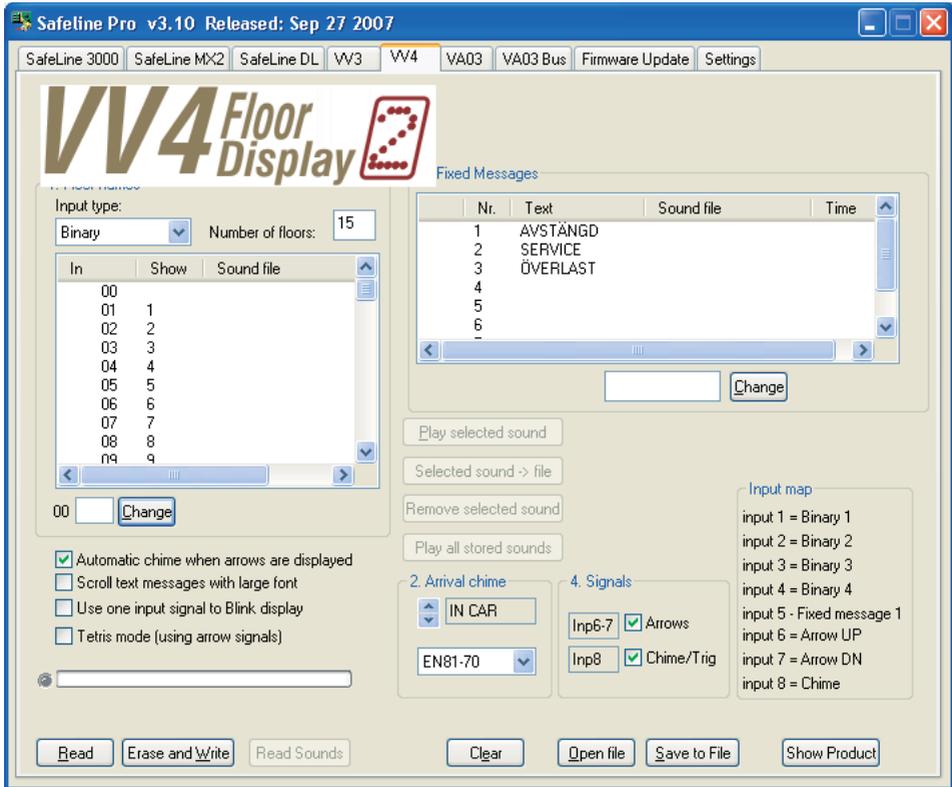
2. At programming step 5 select "OVERLOAD".
3. Connect a speaker to the pin-connector marked "speaker".
4. Connect the inputs 7 and 10 to the overload contact.



When overload is activated, the VV4 will show both the "OVERLOAD" text and sound.

## Programming VV4 with SafeLine Pro

With the software SafeLine Pro the inputs can be programmed and changes in the fixed text messages can be made and downloaded in VV4.



### Wav-files:

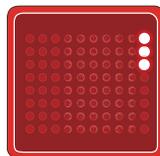
With SafeLine Pro you can add Wav-files to be played at the floors (voice annunciator). The Wav-files should be 8 or 16 KHz, 16 bit MONO.

SafeLine Pro can be downloaded from our website, cost free.

## Tetris mode:

Tetris mode show car travelling direction (instead of arrows) and is displayed by three scrolling LED's at the right side of the display.

To program Tetris mode, use SafeLine Pro and check the box "Tetris mode (using arrow signals)".



## Resetting VV4:

To reset all configuration to factory settings:

Keep the two buttons pressed down while connecting the VV4 to supply voltage, release after 5 seconds.

## Travelling direction arrows and fixed messages:

Travelling direction arrows and fixed messages is shown as long as the input is active. When using the travelling direction arrows the address must be correct (refer to the chapter "Addressing the floor indicator" on page 10).

## Positive/Negative input signals:

Floor display VV4 can be programmed for positive or negative input signals. Factory settings are positive input signal. To program negative input signals, use SafeLine Pro and check the "Inverted input signals" box.

## Memory size:

The built-in memory is 2 MB. This allows 120 seconds of audio at 16 KHz, or 240 seconds of audio at 8 KHz.

## Interface signals

### Binary signals

Binary code is a standardized way to control outputs that are used for floor displays. The benefit is that you use less output signals to control multiple signals. I.e. there is only 3 signals needed to display 7 floors, 4 signals to display 15 floors, 5 signals to display 31 floors etc.

#### Example:

Floor	Code	Floor	Code
0	0000	8	1000
1	0001	9	1001
2	0010	10	1010
3	0011	11	1011
4	0100	12	1100
5	0101	13	1101
6	0110	14	1110
7	0111	15	1111

### Gray code signals

Gray code is a slightly more rare way to control floor displays. It is often used on older controllers.

#### Example:

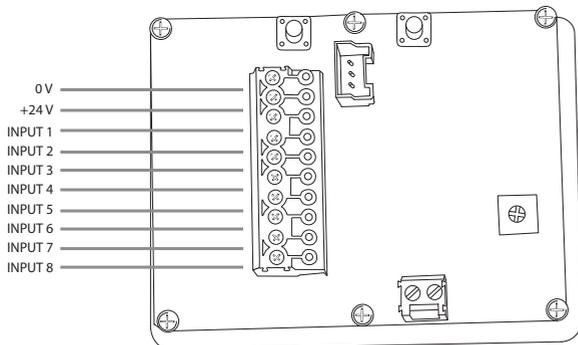
Floor	Code	Floor	Code
0	0000	8	1100
1	0001	9	1101
2	0011	10	1111
3	0010	11	1110
4	0110	12	1010
5	0111	13	1011
6	0101	14	1001
7	0100	15	1000

### Decimal signals (one-floor-per-pin)

The old way to control floor displays are called Decimal or one-floor-per-pin. One output signal is needed for every floor, i.e. 8 outputs for 8 floors.

#### Example:

Floor	Code
1	10000000
2	01000000
3	00100000
4	00010000
5	00001000
6	00000100
7	00000010
8	00000001



## Connecting binary signals:

- Input 1 = Binary signal 1
- Input 2 = Binary signal 2
- Input 3 = Binary signal 4
- Input 4 = Binary signal 8
- Input 5 = Fixed message.
- Input 6 = Arrow up.
- Input 7 = Arrow down.
- Input 8 = Arrival chime

## Connecting gray code signals:

- Input 1 = Gray code 1
- Input 2 = Gray code 2
- Input 3 = Gray code 4
- Input 4 = Gray code 8
- Input 5 = Fixed message.
- Input 6 = Direction arrow up.
- Input 7 = Direction arrow down.
- Input 8 = Arrival chime.

## Connecting decimal signals (one-floor-per-pin):

- Input 1 = Floor 1
- Input 2 = Floor 2
- Input 3 = Floor 3
- Input 4 = Floor 4
- Input 5 = Floor 5
- Input 6 = Floor 6
- Input 7 = Floor 7
- Input 8 = Floor 8



### **Tip!**

With SafeLine Pro the connection of the inputs can be optimized.

## Technical data:

Current consumption at 24V supply voltage: Max 50mA.

Current consumption on each activated input: Max 1mA.



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