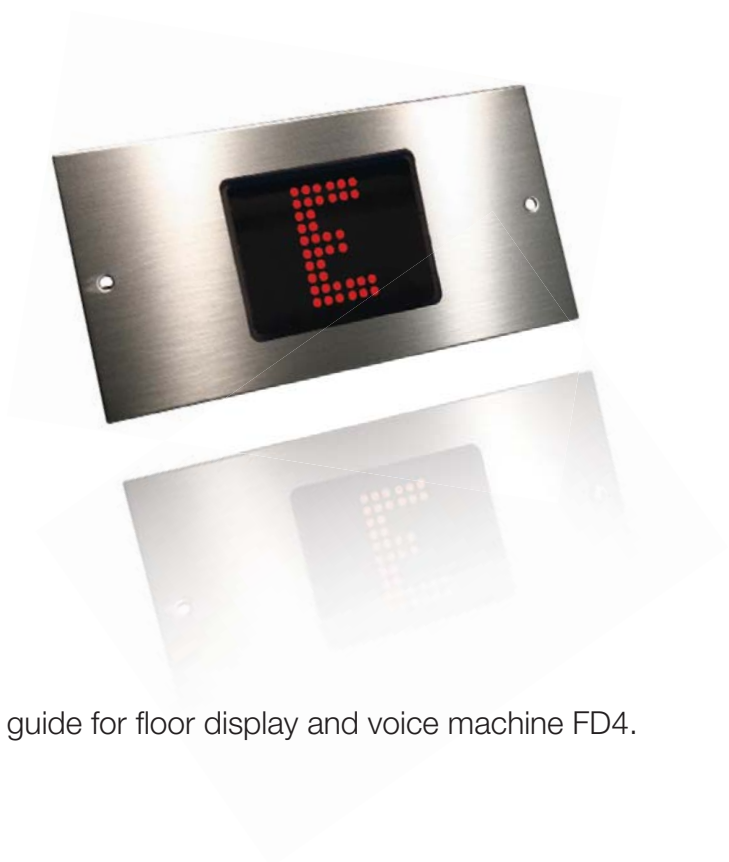


## SafeLine **FD4** Functionality guide



Functionality guide for floor display and voice machine FD4.



# ■ Function guide

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## FLOOR DISPLAY AND VOICE MACHINE FD4

The FD4 has a built-in voice announcer. It is easy to program, has high quality audio and fulfills all requirements according to EN81-70.

### **Serial communication with 2-wire bus based on the industry standard RS485.**

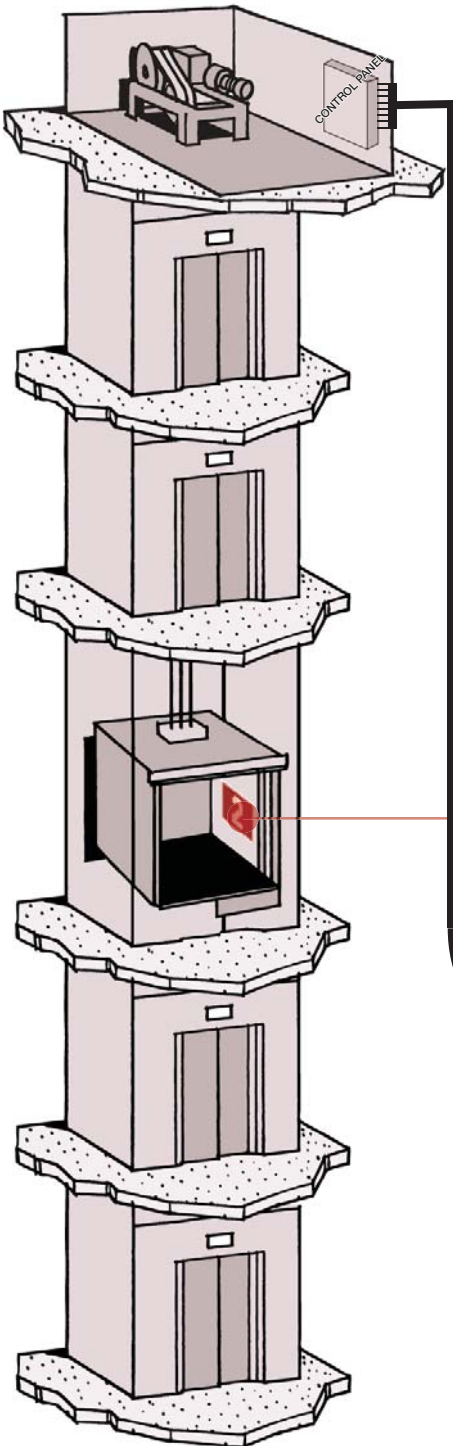
RS485 is well suited for environments with much electrical disturbance, such as frequency controls, Thyristor settings, ESD-discharges and other disturbances common to lift environments.

### **Control of floor display FD4 from the encoder.**

The FD4 connects fast and easily to the encoder PG, that runs from a kevlar rope in the elevator shaft.

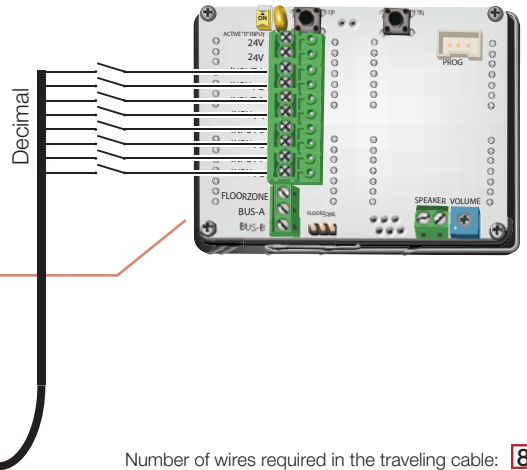
The 6 function examples shown in this guide can be combined in many different ways.

If you have any questions, please contact us.



## FUNCTION 1 Up to 8 floors

The floor display FD4 is mounted in the car and connects to the control panel with decimal signals, 1 wire per floor. This works well for older lifts in which older floor displays are replaced with new ones.

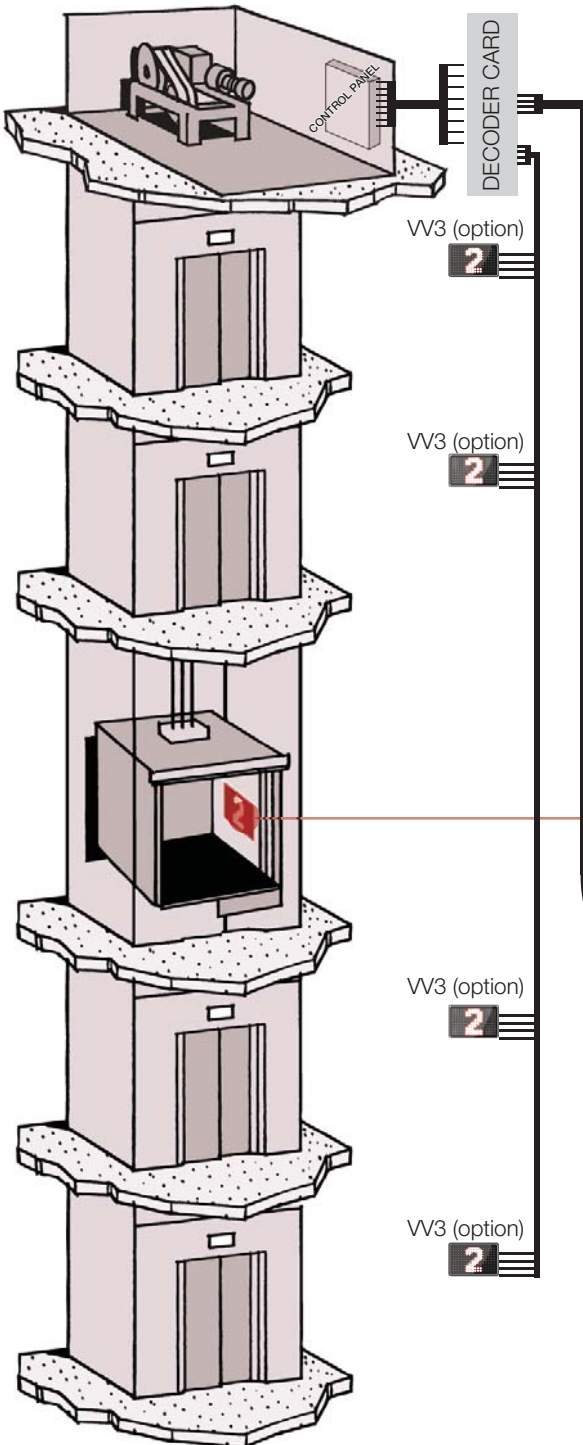


Number of wires required in the traveling cable: **8**

Number of wires required in the lift shaft: **0**

### Options:

- Voice messages in the car: ✓
- Voice messages on floor levels (on external trig): ✗
- Fixed messages in the car: ✓
- Fixed messages on floor levels: ✗
- Direction arrows in the car: ✓
- Direction arrows on floor levels: ✗
- Arrival chimes according to EN81-70: ✓
- Arrival chimes in the car: ✓
- Arrival chimes on floor levels: ✗
- 2-wire bus connected to FD4 in the car: ✗
- 2-wire bus connected to FD4 on floor levels: ✗

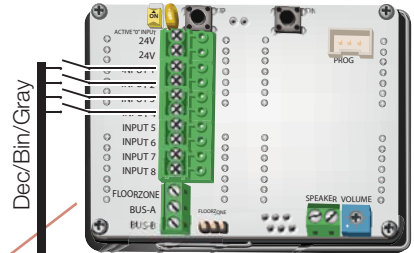


## FUNCTION 2

### Up to 15 floors

By using one of our decoder cards, the decimal signals can be extended to 15 floors.

You can also combine this with our smaller floor display VV3.

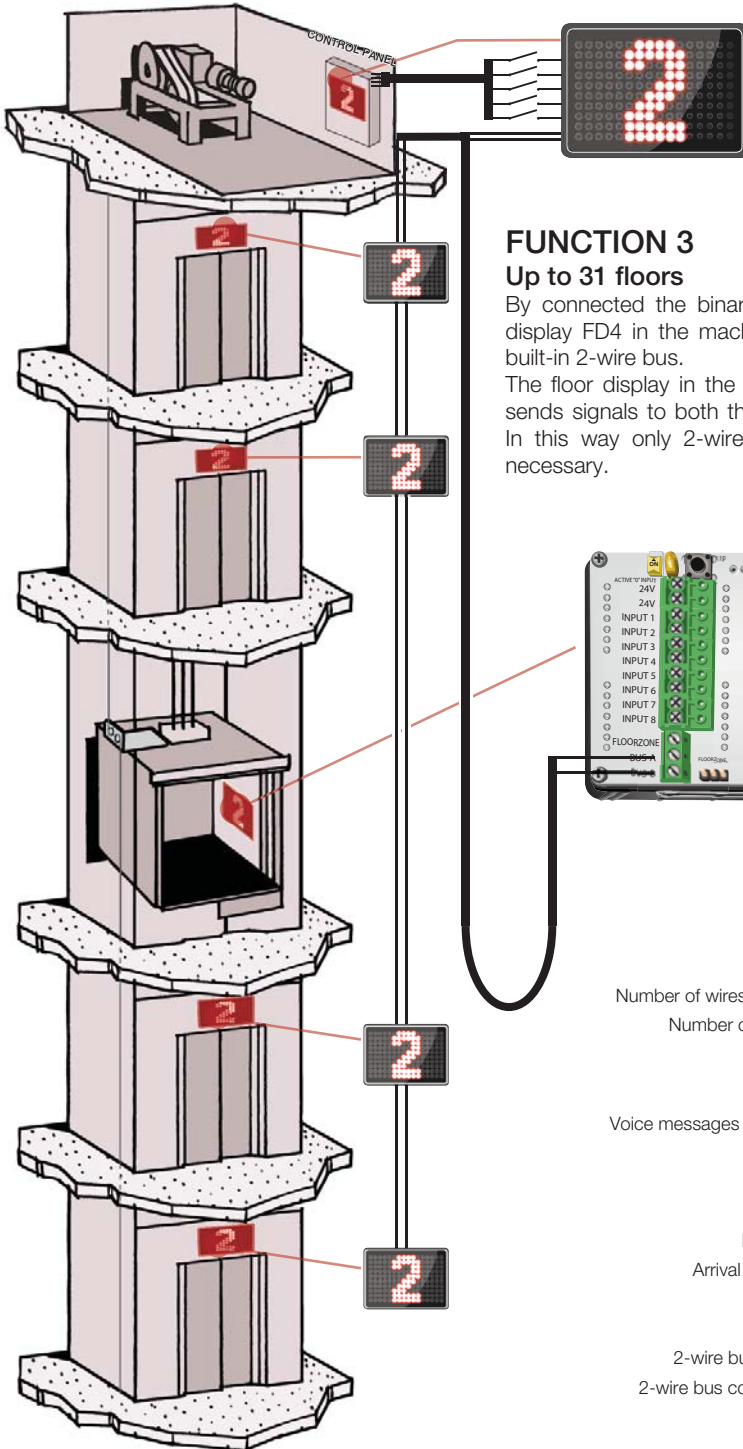


Number of wires required in the traveling cable: **4**

Number of wires required in the lift shaft: **4**

#### Options:

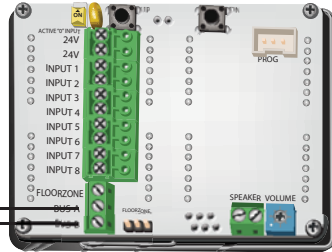
- Voice messages in the car: ✓
- Voice messages on floor levels (on external trig): ✓
- Fixed messages in the car: ✓
- Fixed messages on floor levels: ✓
- Direction arrows in the car: ✓
- Direction arrows on floor levels: ✓
- Arrival chimes according to EN81-70: ✓
- Arrival chimes in the car: ✓
- Arrival chimes on floor levels: ✓
- 2-wire bus connected to FD4 in the car: ✗
- 2-wire bus connected to FD4 on floor levels: ✗



### FUNCTION 3 Up to 31 floors

By connected the binary or gray signals to a floor display FD4 in the machine room, you can use the built-in 2-wire bus.

The floor display in the machine room automatically sends signals to both the car and shaft via the bus. In this way only 2-wires to the car and shaft are necessary.

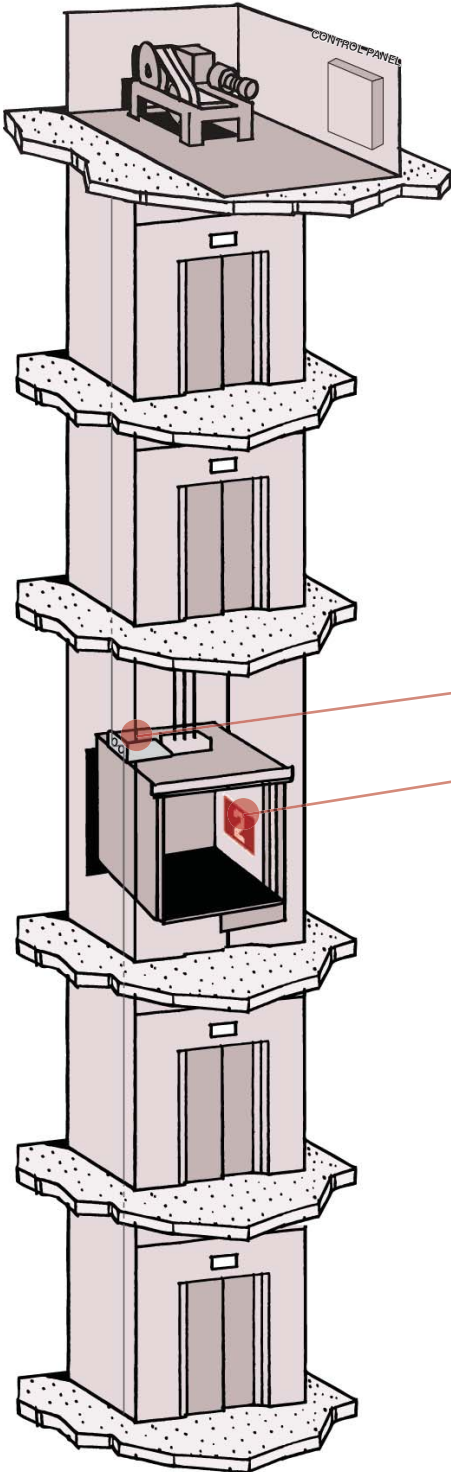


Number of wires required in the traveling cable: **2**

Number of wires required in the lift shaft: **2**

**Options:**

- Voice messages in the car: ✓
- Voice messages on floor levels (on external trig): ✓
- Fixed messages in the car: ✓
- Fixed messages on floor levels: ✓
- Direction arrows in the car: ✓
- Direction arrows on floor levels: ✓
- Arrival chimes according to EN81-70: ✓
- Arrival chimes in the car: ✓
- Arrival chimes on floor levels: ✓
- 2-wire bus connected to FD4 in the car: ✓
- 2-wire bus connected to FD4 on floor levels: ✓

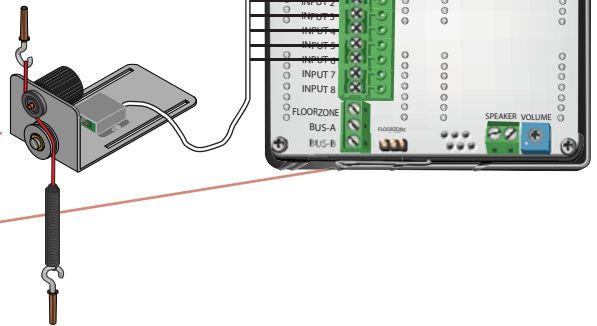


## FUNCTION 4

### Up to 31 floors (If more than 16 floors, reference inputs must be used)

By connecting our encoder PG to the floor display FD4, connection up to existing control panel is not necessary.

The floor display FD4 gets all signals from the encoder. No synchronisation or mechanical contacts are needed. Only a simple setup needs to be made.

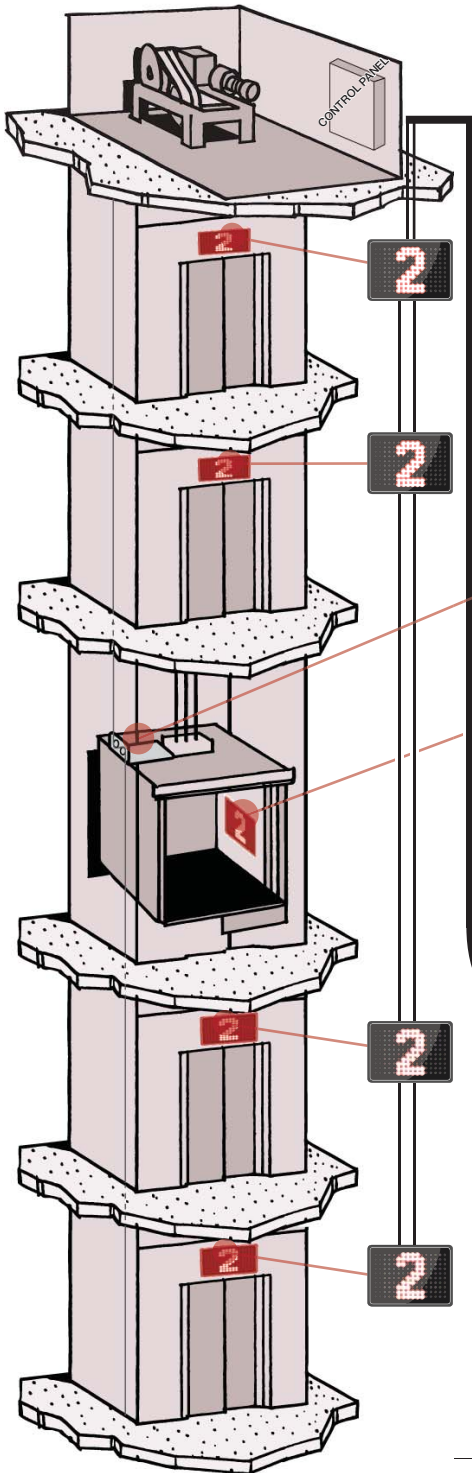


Number of wires required in the traveling cable:

Number of wires required in the lift shaft:

#### Options:

- Voice messages in the car: ✓
- Voice messages on floor levels (on external rig): ✗
- Fixed messages in the car: ✗
- Fixed messages on floor levels: ✗
- Direction arrows in the car: ✓
- Direction arrows on floor levels: ✗
- Arrival chimes according to EN81-70: ✗
- Arrival chimes in the car: ✓
- Arrival chimes on floor levels: ✗
- 2-wire bus connected to FD4 in the car: ✗
- 2-wire bus connected to FD4 on floor levels: ✗



## FUNCTION 5

Up to 31 floors (If more than 16 floors, reference inputs must be used)

In combination with the encoder, you can also install the floor display FD4 on floor levels.

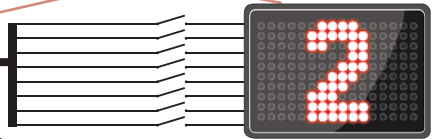
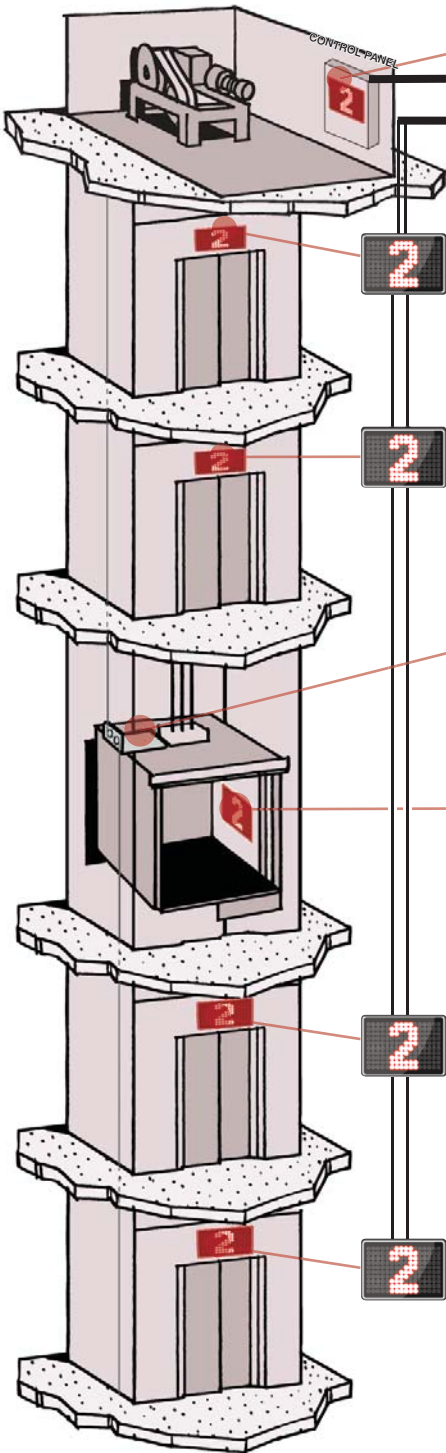
Only 2 parts are needed from the car to the shaft.

Number of wires required in the traveling cable:

Number of wires required in the lift shaft:

### Options:

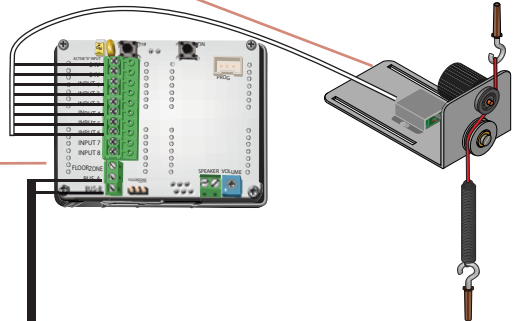
- Voice messages in the car:
- Voice messages on floor levels (on external trig):
- Fixed messages in the car:
- Fixed messages on floor levels:
- Direction arrows in the car:
- Direction arrows on floor levels:
- Arrival chimes according to EN81-70:
- Arrival chimes in the car:
- Arrival chimes on floor levels:
- 2-wire bus connected to FD4 in the car:
- 2-wire bus connected to FD4 on floor levels:



## FUNCTION 6

**Up to 31 floors (If more than 16 floors, reference inputs must be used)**

Additional functionality can be accessed by connecting up a floor display FD4 in the machine room. This can for example be connected to directional arrows, fixed messages, and is connected together with the other units on the same 2-wire bus.



Number of wires required in the traveling cable: **2**

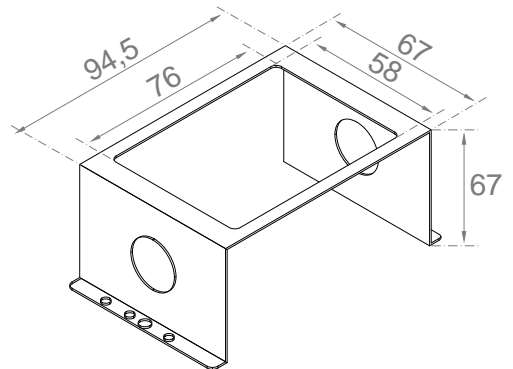
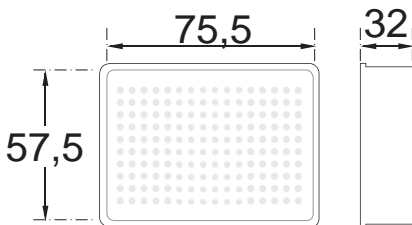
Number of wires required in the lift shaft: **2**


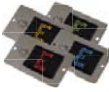




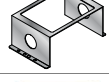






### Options:

- Voice messages in the car: ✓
- Voice messages on floor levels (on external rig): ✓
- Fixed messages in the car: ✓
- Fixed messages on floor levels: ✓
- Direction arrows in the car: ✓
- Direction arrows on floor levels: ✓
- Arrival chimes according to EN81-70: ✓
- Arrival chimes in the car: ✓
- Arrival chimes on floor levels: ✓
- 2-wire bus connected to FD4 in the car: ✓
- 2-wire bus connected to FD4 on floor levels: ✓



COMPARISON	Function 1	Function 2	Function 3	Function 4	Function 5	Function 6
	Number of wires required in the traveling cable:	8	4	2	0	2
Number of wires required in the lift shaft:	0	4	2	0	2	2
<b>Options:</b>						
Voice messages in the car:	✓	✓	✓	✓	✓	✓
Voice messages on floor levels (on external trigg):	✗	✓	✓	✗	✓	✓
Fixed messages in the car:	✓	✓	✓	✗	✓	✓
Fixed messages on floor levels:	✗	✓	✓	✗	✓	✓
Direction arrows in the car:	✓	✓	✓	✓	✓	✓
Direction arrows on floor levels:	✗	✓	✓	✗	✗	✓
Arrival chimes according to EN81-70:	✓	✓	✓	✗	✗	✓
Arrival chimes in the car:	✓	✓	✓	✓	✓	✓
Arrival chimes on floor levels:	✗	✓	✓	✗	✓	✓
Floorzone in the car:	✗	✗	✗	✓	✓	✓
Floorzone on floor levels:	✗	✗	✗	✗	✓	✓
2-wire bus connected to FD4 in the car:	✗	✗	✓	✗	✓	✓
2-wire bus connected to FD4 on floor levels:	✗	✗	✓	✗	✓	✓



ARTICLE NUMBER	PRODUCT	
<b>FD4</b> <b>FD4_Blue</b> <b>FD4_Green</b> <b>FD4_Yellow</b>	Floor display FD4 with red display Floor display FD4 with blue display Floor display FD4 with green display Floor display FD4 with yellow display	
<b>FD4_PlateSpk</b> <b>FD4_PlateSpk_Blue</b> <b>FD4_PlateSpk_Green</b> <b>FD4_PlateSpk_Yellow</b>	Flush mounted floor display FD4 with built-in speakers, red display Flush mounted floor display FD4 with built-in speakers, blue display Flush mounted floor display FD4 with built-in speakers, green display Flush mounted floor display FD4 with built-in speakers, yellow display	
<b>FD4_PlateSpk_SM</b> <b>FD4_PlateSpk_SM_Blue</b> <b>FD4_PlateSpk_SM_Green</b> <b>FD4_PlateSpk_SM_Yellow</b>	Surface mounted floor display FD4 with built-in speakers, red display Surface mounted floor display FD4 with built-in speakers, blue display Surface mounted floor display FD4 with built-in speakers, green display Surface mounted floor display FD4 with built-in speakers, yellow display	
<b>PG1</b>	Encoder unit for floor display FD4	
<b>FD4_Plate_SM</b>	Elevated frame for surface montage of floor display FD4	
<b>FD4_Plate</b>	Floor display FD4 front plate.	
<b>FD4-DIN</b>	Machine room adapter for floor display FD4	
<b>SPK_VA03</b>	Flush mounted speaker for voice announcer, 10W	
<b>SPK-Voice01</b>	Flush mounted speaker for voice announcer, 3W	
<b>SPK-Voice02</b>	Surface mounted speaker for voice announcer, 3W	
<b>Adapter02</b>	AC/DC adapter	
<b>Decode01</b>	Decoder card	
<b>VV3</b> <b>VV3_Blue</b> <b>VV3_Green</b> <b>VV3_Yellow</b>	VV3 with red display VV3 with blue display VV3 with green display VV3 with yellow display	





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