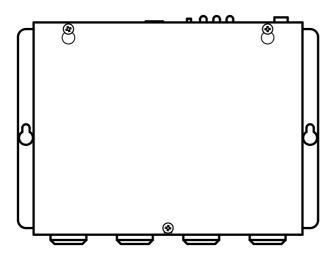


# SL6+ Manual





Lift Emergency Telephone www.safeline-group.com

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03.2019 SL6+ v.3.31 EN © 2019 SafeLine and all the SafeLine products and accessories are copyrighted by law.

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#### SafeLine SL6+

#### Technical data main unit

Power Supply voltage: 230 VAC, 50 Hz, min: 6,4 W, max: 9,4 W

Battery Voltage: 12 VDC lead battery

Capacity: 1,2 Ah

Charge: 13,65 VDC, max. 200 mA

**Emergency light** Emergency light output: 12 VDC max 500 mA

Emergency signal Acoustic emergency signal output: 12 VDC max 200 mA

**Inputs** 10-30 VDC, 5 mA, optically isolated

Antenna connector SMA (female)

Size SL6+: 241 x 160 x 47 mm (L x W x H)

SL6+ Mini: 244 x 113 x 52 mm (Lx W x H)

Weight 1.7 kg

**Relay outputs** Max 1 A/30 VDC. volt free relay outputs.

IP code IP20

**Audio files** Format WAVE-8 or 16kHz, 16 bit mono, max 16 sec/file

Bluetooth 4.0

BLE 2,4 GHz, (2402 - 2480 MHz), Max 2dBm

Operating temperature  $+5 \, \text{C}^{\circ} - +40 \, \text{C}^{\circ}$ Air humidity  $30\% - 90\% \, \text{RH}$ Interface Boards \*\$L6-GSM-BOARD:

- Micro SIM. 15 x 12 x 0.76 mm

- Supports 2G

- Requires SW 3.40 or later \*GSM-R/EGSM900/GSM1800

- RF output power: Class 4 [2 W] for GSM-R/EGSM-R/EGSM900,

Class 1 [1 W] for GSM1800

\*IF-BOARD-4G

- Micro SIM, 15 x 12 x 0,76 mm - Supports 2G, 3G and 4G

- Requires SW 4.45 or later

Technical data voice station

Power Supply voltage: 12 VDC, current drain nominal 15 mA

**Inputs** 10-30 VDC, 5 mA, optically isolated

Pictogram outputs Max 100 mA, 24 VDC, transistor outputs, open collector

IP code COP: IP00

COP2, Surface- or flush mounted units: IP40

To reach safety level IP4X, suitable additional protection have to be

installed onsite.

Max cable length 0,22 mm² cable: 100 m

0,75 mm<sup>2</sup> cable: 250 m

Operating temperature  $+5 \,\mathrm{C}^{\circ} - 40 \,\mathrm{C}^{\circ}$ 

Air humidity 30% – 90% RH

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## General information

This unit was built with state-of-the-art technology and to generally recognised safety related technical standards currently applicable. These installation instructions are to be followed by all people working with the unit, in both installation and maintenance.

It is extremely important that these installation instructions are made available at all times to the relevant technicians, engineers or servicing and maintenance personnel. The basis prerequisite for safe handling and trouble free operation of this system is a sound knowledge of the basic and special safety regulations concerning conveyor technology, and elevators in particular. The unit may only be used for its intended purpose. Note in particular that, no unauthorised changes or additions may be made inside the unit or individual components.

#### **Exclusion of liability**

The manufacturer is not liable with respect to the buyer of this product or to third parties for damage, loss, costs or work incurred as a result of accidents, misuse of the product, incorrect installation or illegal changes, repairs or additions. Claims under warranty are likewise excluded in such cases. The technical data is the latest available. The manufacturer accepts no liability arising from printing errors, mistakes or changes.

#### Declaration of conformity

Download "The declaration of conformity" at our website: www.safeline-group.com

#### Safety Precautions!

- Only trained professionals, who are authorised to work on the equipment, should install and configure this product.
- This quality product is dedicated for the lift industry. It has been designed and manufactured to be used for its specified purpose only. If it is to be used for any other purpose, SafeLine must be contacted in advance.
- It should not be modified or altered in any way, and should only be installed and configured strictly following the procedures described in this manual.
- All applicable health and safety requirements and equipment standards should be considered and strictly adhered to when installing and configuring this product.
- After installation and configuration this product and the operation of the equipment should be fully tested to ensure correct operation before the equipment is returned to normal use.

Electrical and electronic products may contain materials, parts and units that can be dangerous for the environment and human health. Please inform yourself about the local rules and disposal collection system for electrical and electronic products. The correct disposal of your old product will help to prevent negative consequences for the environment and human health.



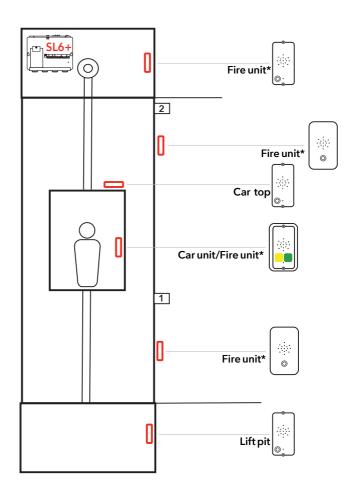
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# Description of the bus system

The SL6+ system consists of a main unit and up to six connected voice stations. The system is based on a two-way system according to EN 81-28 and uses a bus system for communication between main unit and stations. The bus system consists of four wires: two for transfering voice and data, and two for power supply.

Use the adress selector to set a unique adress for each station, ranging from 1-6. It is important that each station have a unique address set so the system is able to reach all specific voice stations.

### System overview



\* Fire unit optional placement

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## Overview SL6+ main unit

1. RJ12 connector for optional telephone handset

For configuration and intercom communication. Can also be used for external calls. Any standard analogue tone dial telephone can be used.

#### 2. Reset button

- Reset all alarms.
- Terminates a phone call in progress.
- Triggers self test.
- Activates display of GSM signal strength.
- Triggers battery test.

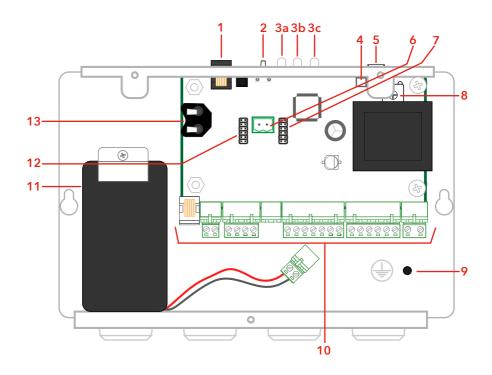
#### 3. LED indicators

- a. Mains power
- b. Active alarm/battery status
- c. PSTN/GSM net call status
- 4. USB Mini B PC connection For firmware update and configuration.
- **5. RS232 PC connection** For configuration.

6. Screw terminal for optional telephone handset

For configuration and intercom communication. Can also be used for external calls. Any standard analogue tone dial telephone can be used.

- 7. Slot for optional card CANopen-Lift (\*SL6-CAN-BOARD)
- 8. Connector for external system speaker
- 9. GND
- 10. Terminals
- 11. 12 V Battery, 1,2 Ah
- 12. Slot for GSM interface board
- 13. Battery slot for RTC, Real Time Clock (not yet implemented)



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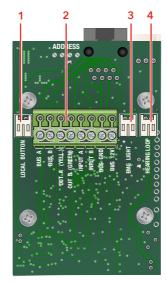
## Overview SL6+ voice station

- Local button\*
   Only N/O.
   Connected with \*Cable13.
- 2. Screw connector terminals\*
- 3. Emergency light\*
  Is connected with \*Cable13.
- Hearing loop\*Is connected with \*Cable13.
  - \* Note: This connection may not be present depending on your product.

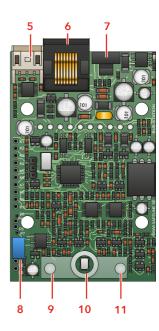
- **5. RS232 PC connection** For firmware update.
- Terminal RJ45
   Input/output, bus connection, power and external pictogram.
- Address selector
   Selects the bus address for the unit.
- 8. Volume control
- 9. Pictogram yellow
- 10. Microphone
- 11. Pictogram green

#### Default address setting:

Address	Unit
1	Car unit
2	Top unit
3	Lift pit unit
4	Fire unit
5	Fire unit
6	Fire unit



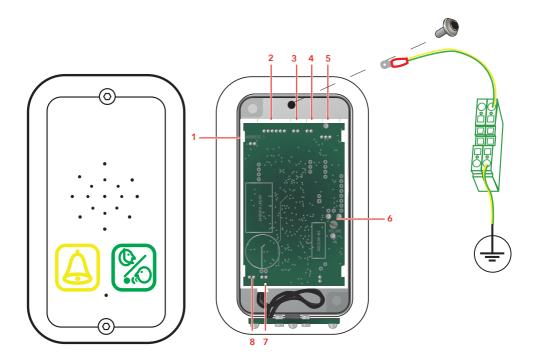
Change the default address settings using SafeLine Pro or SafeLine CONNECT.



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## Overview SL6+ voice station

- Address selector
   Fixed value set to 1 (car unit).
- 2. Connections
- 3. Pictogram output
- 4. Additional alarm button, N/O
- 5. RS232 PC connection
- 6. Volume control
- 7. Emergency light, only for SLB-SM-Pic-Light
- 8. Hearing loop



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#### Mounting

If GSM interface is installed it has priority. If no active SIM card is used, GSM interface should be disabled.

\*SL6-GSM-BOARD with Micro SIM Card

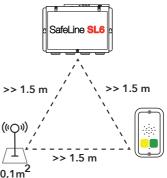


\*IF-BOARD-4G with Micro SIM Card



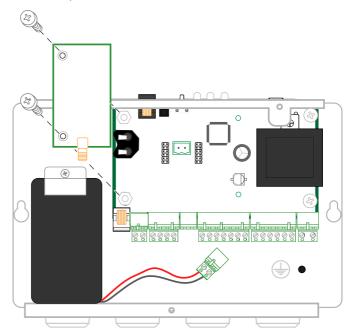
#### Mounting main unit

Install the main unit in the machine room. Mount the SL6 main unit to a stable surface (eg. wall, controller cabinet), using appropriate screws. No termination resistance is needed at the ends of the bus. To avoid GSM interference: place the main unit, the stations and the GSM antenna at least 1,5 meters apart. The antenna must be placed on a metallic (earthed) surface of at least 150x150 mm and be placed standing (vertical).



#### Mounting additional circuit board

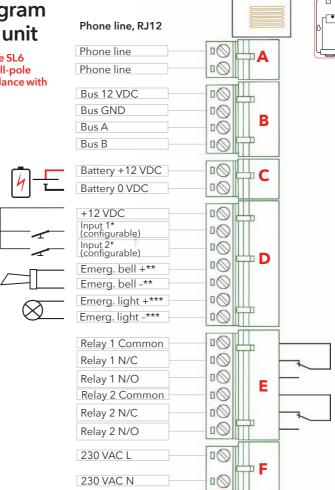
Unplug the main power and battery before performing any changes. Circuit boards that can be mounted are \*SL6-GSM-BOARD or \*IF-BOARD-4G (please refer to technical data, page 2, for detailed information).



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# Wiring diagram SL6+ main unit

Supply voltage for the SL6 must go through an all-pole main switch in accordance with EN81-20.



#### Input 1 and 2 options

NONE

FILTER

LMS/SMS

CLEAR/MAINTENANCE

FIRE MODE (default input 2)

ALARM BUTTON (default input 1)



Connect the protective earth connection to the enclosure, with a cable of at least 1,5 mm $^2$ .

- \* Input 1 and 2 are configurable N/O or N/C inputs with SafeLine Proor CONNECT. For configuration details, setabel to the left.
- \*\* Maximum 200 mA on the emergency bell output.
- \*\*\* Maximum 500 mA on the emergency light output.

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#### Wiring diagram RJ45 connection voice station \*Cable03 MAX 630 kg ONLY WHEN USING **EXTERNAL PICTOGRAM** AND ALARM BUTTON Yellow Output A, yellow pictogram (optional) Green Output B, green pictogram (optional) Input A, alarm button (optional) Red • Black Input B, not in use B Orange B1 bus 12 VDC Grey B2 bus GND B3 bus A Brown Blue B4 bus B JST connection \*Cable18

\*Input A is configured with either:

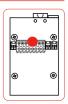
- SafeLine Pro or CONNECT, N/O (default) or N/C.
- Parameter \*89\*, please refer to the corresponding code in the "Parameter List".

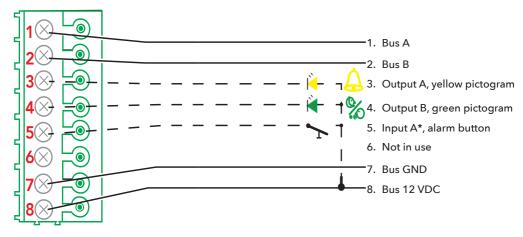
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# Wiring diagram voice station screw terminals

\*Input A is configured with either:

- SafeLine Pro N/O (default) or N/C.
- Parameter \*89\*, please refer to the corresponding code in the "Parameter List".





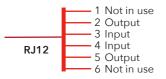
# Connecting the telephone line

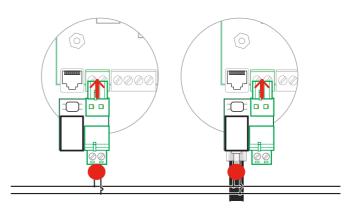
A common mode choke must be used (2,2mH) for telephone line.

Connect the telephone line parallell in universal terminals or the RJ-plug, see picture above. It's possible to connect up to nine SL6+ main units to the same telephone line.

In order to access the unit remotely, it needs to be assigned a unit number. Please refer to parameter \*82\* in the "Parameter List" for more information.

Phone line is connected via RJ12 or terminal A through the following:

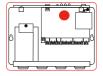




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## Activating the SIM card

Note: If you enter the wrong PIN code 3 times, the SIM card will be blocked, requiring PUK code to unblock. If so, the SL6+ can not be started and LED3 will turn red. The SL6+ can only recognize the PIN code if the code is set to "1234", "0000", "1111" or if it is deactivated. If set to anything else, the SL6+ can not use the SIM card.



If the PIN code is set to "1234", "0000" or deactivated, the SIM card can be used on any of SafeLine's GSM products.

#### Setting the PIN code

- Insert the SIM card in an ordinary cell phone. In the phone's security settings, change the PIN to "1234". If not possible, set the PIN code to "0000" or, if available, set the "PIN code request" option to "OFF".
- 2. Verify the PIN code by switching your phone off and on again.
- 3. Make a call from your phone to verify that the SIM card is active.
- 4. Make a call to the SL6+ after insertion to ensure there is a proper connection.

#### "1111" PIN code

If the PIN is set to "1111", the code will be randomly generated by the SafeLine GSM unit and memorized. This is a safety measure, making sure the SIM card will only work with the selected SafeLine GSM unit. To change the PIN again, use the PUK code provided to you by your mobile services provider for setting up a new PIN.

If you want to upload a new SIM card for the GSM unit with a new "1111" PIN, you will first need to upload a SIM card with PIN code "1234" or "0000" to clear the old code in memory.

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#### **LED** indication front panel

#### LED 1 indicates the power supply status

Continuous green Mains power supply OK

Flashing red (400/400 ms) Battery operated, with power to the emergency light. Continuous red Battery operated, no power to the emergency light.

#### LED 2 indicates active alarm and battery condition

No active alarm/battery OK. Light off Active alarm not reset.

Rapidly flashing yellow

(200/200 ms)

Battery check in progress.

Flashing red (400/400 ms)

Continuous red Battery test failure/no battery connected.

#### LED 3 indicates the phone line's status

Fire mode activated. Flashing green (100/100 ms) Flashing green (400/400 ms) Call connection in progress. Slowly flashing green Telephone line connected. (200/4600 ms) GSM network OK.

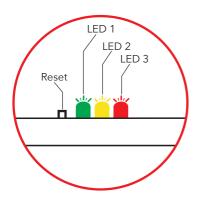
Call connected. Continuous green Flashing yellow (100/100 ms) Incoming call.

Flashing red (400/400 ms) PSTN: No telephone line connected.

GSM: Searching for GSM network. No SIM card (when using GSM).

#### Continuous red Reset button

Press for 3 sec Show GSM signal strength (see table below). Press 3 times Start a self test (battery + bus initialization). Press once Resets an active alarm. Aborts calls in progress. Press 5 sec - release SL6+ turns off. NOTE! Refers to battery powered only!



LED 1 2 3	GSM SIGNAL STRENGTH
	= 100 %
	>= 85 %
	>= 70 %
Alle Alle Alle	>= 55 %
مالح مالح مالح	>= 30 %*
	>= 15 %
	>= 0 %

\*Minimum signal strength for using GSM interface.

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# LED indication for pictogram in car



Continuous light





#### Yellow LED

#### Call in progress

The yellow pictogram LED is lit as soon as the alarm button is pressed.

#### **Green LED**

#### Call connected

Call connected.

The green pictogram LED turns on as soon as the SafeLine unit detects a responding voice. The LED is turned off when the call is terminated.

#### Yellow LED Standard (\*78\*0#) Green LED Light off No alarm activated Telephone line not OK. Flashing slowly Flashing once every 5 seconds Flashing once every 5 seconds Telephone line not OK. Unit is OK. Flashing two times every 5 Flashing quickly Flashing twice every second Alarm button active. seconds Alarm filter activated. Call connected. Continuous light Activated alarm, Remains lit. until reset. **Green LED** Strictly EN81-28 (\*78\*1#) Yellow LED Flashing Flashing twice every second Alarm button active.

Activated alarm, Remains

lit until reset.

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# Startup procedure

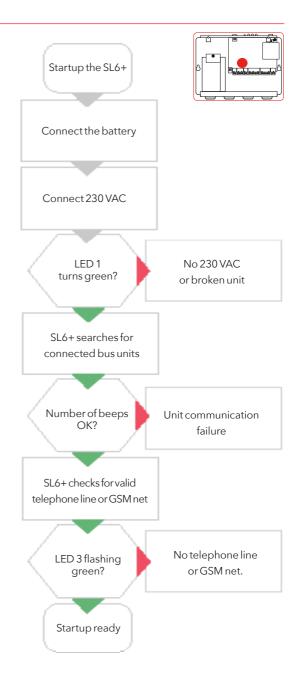
NOTE: The unit will not start at battery connection only.

- 1. Upon startup: a tone sequence is heard in the system speaker
- 2. Check 230 VAC mains power.
- 3. SL6+ main unit searches for stations connected to the bus. For every voice station found, a beep sound is heard in the system speaker.



Example: found all voice stations except for number 3.

- **4.** Refer to chapter: Troubleshooting voice station.
- **5.** When a working telephone line is connected or a GSM net is available, LED 3 is flashing green every 5 seconds.
- **6.** Refer to chapter: Troubleshooting main unit.



Startup 16 SL6+v.3.31EN

# Configure with Safeline CONNECT

The SafeLine CONNECT app is used to configure and surveil your SafeLine devices.

#### Apple store, iPhone



#### Google play, Android

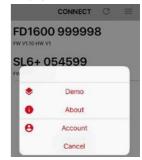


Download SafeLine CONNECT from Google Play or the Apple App Store. To fully use the app's features you must register an account. In the upper corner you can access a menu containing account information, patch notes and a demo mode. To register an account: select account and then "Register new account". You will then be redirected to a site where you register your product key.

#### Android



**iPhone** 



Android



iPhone SL6+ 054840

Press the SL6+ icon. To access a device it must have a programmed password or have been restarted within 10 minutes. Every time the device is powered on, the device's bluetooth is open for 10 minutes, allowing you to program a password for the unit. Note: some devices are quicker than other to find the devices nearby. If the device doesn't appear on the screen, try waiting a bit longer.

When accessing a SL6+ you can see the device information at the top.





You can then select:

#### Edit unit info

- This is the name and phone number of the device and how the device is found.

#### Configuration:

- Here you configure all the functions for voice stations, in- and outputs etc.

#### Simulate alarms:

- Here it is possible to simulate an alarm, battery failure, callback, stuck button etc.

#### Main unit diagnostics:

- See current status of the device (for example: battery status, active alarms, mains status, etc.)

#### Voice station diagnostics:

- Se current status of voice stations.

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# Parameters unique for SafeLine CONNECT

Certain settings can only be configured with the SafeLine CONNECT app. Below is a list of functions unique for the app and where to find them. Text in red = SafeLine CONNECT paths.

#### Test alarm interval (per day/hour)

#### Configuration -> ID- and telephone numbers -> Test alarm -> Test alarm interval

• Adjustable interval, either per day or per hour, between alarm test. If both values are set to 0, alarm tests are off.

#### View current GSM operator in the SafeLine CONNECT app Main unit diagnostics -> Operator name

Command that lets you view your current operator. Not available
 GSM net not available. Unit busy = unit is busy with ongoing call.

#### Configure number of outgoing call retries Configuration -> Calls -> Max outgoing call retries

 Max Outgoing Call Retry - can be set from 4-12 tries. 12 = Default. Applies to all types of calls excluding the test dialogue in the Safe-Line CONNECT app/SL Pro (2 calls).

#### Emergency button check (requires built-in magnet button) In- and outputs -> Relay 1/2 -> Emergency button check

 During emergency button check, the relay is activated for 3 seconds, waiting for emergency button signal. If main unit does not receive message, a "stuck button" alarm will be sent.

#### "Battery test active" function

#### Main unit diagnostics -> Battery test active

 Test function shown in the SafeLine CONNECT app, to view if a battery test is in progress.

#### Emergency light car Top/Pit

#### Configuration -> Voice stations -> Emergency light car top/pit

 Emergency Light Top/Pit (On/Off), Default = Off. If activated, the emergency light turns on for voice stations marked Top/Pit during mains power failure.

#### Fallback alarms

#### Configuration -> System -> Fallback -> PSTN/GSM Fallback

- Priority PSTN/GSM. Default = disabled. Choose which interface is prioritized and activates transmission of LMS correlating to the Fallback function.
- Fallback alarm delay: 1 10 minutes.
   Dual test alarms (On/Off), Default = Off. When activated, both PSTN and GSM interfaces will send test alarms.

#### Disable test call through config. handset:

#### Configuration -> Calls -> Config-handset test call

 "Config-handset test call" (On/Off). Default = On. 0 = turns off outgoing calls through handset.

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## Configuration with PC

#### Configuration with SafeLine Pro

The unit can be configured at the office prior to the installation or on site after installation. The configuration software SafeLine Pro can be downloaded from www.safeline-group.com. The configuration cable is provided by SafeLine.



#### Remote configuration with SafeLine Pro/ProLink

The unit can also be remotely configured at the office after installation. Connect a SafeLine ProLink modem with a phone line to a computer with SafeLine Pro and a serial cable.



Configuration 19 SL6+v.3.31 EN

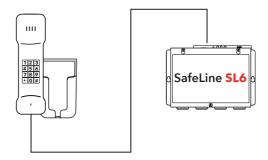
# Configuration with telephone

Configuration methods och configuration codes with a telephone is described on the following pages under "Remote configuration with telephone" and "On-site configuration with telephone".

#### On-site configuration with telephone

For configuration, you can use any PSTN tone dial phone.

- Plug the handset into the RJ12 contact of the main station (see "Screw terminal for optional telephone handset" on page 6).
- Enter configuration codes on the handset keypad.



#### Remote configuration with telephone

For remote configuration, you can use any PSTN tone dial phone.

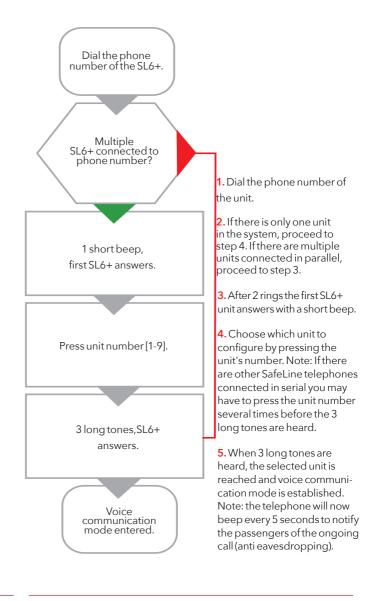
- Dial the phone number of the SL6+.
- Enter the function codes on the phone keypad to start configuration (password has to be entered, see "Parameter list" (page 25).



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# Remote configuration with telephone/ calling the SL6: step 1

In order to remotely configure or call a unit in the SL6+ system, the unit must first be put into configuration mode via voice communication mode. Follow the steps below to enter voice communication mode.

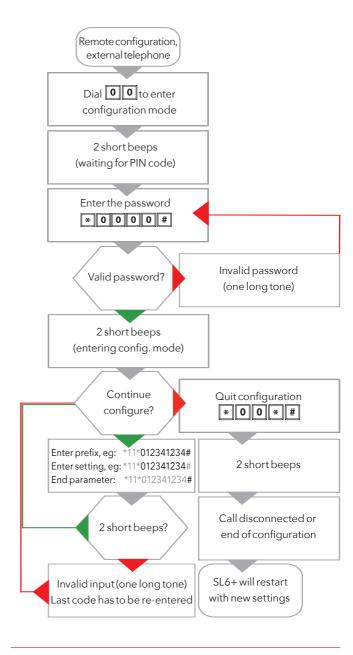


Configuration 21 SL6+v.3.31EN

# Remote configuration with telephone: step 2

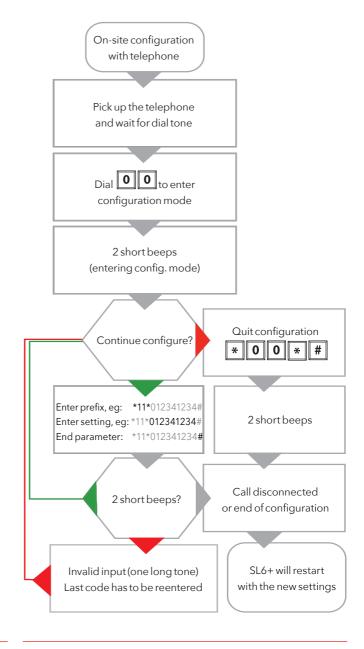
Note: If the time between the operation of two keys exceeds 10 seconds, the code has to be re-entered. If the time between exceeds 30 seconds, the call is disconnected or configuration mode is ended.

After having entered voice communication mode, use the parameter codes found in the "Parameter List" to remotley configure the SL6+.



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# On-site configuration with telephone



Configuration 23 SL6+v.3.31EN

# Configuration examples

If at any time you need to start over, use the factory reset command \*99\*1#.

Please refer to the full configuration setup in the "Parameter list" as these are merely examples.

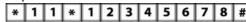
#### SafeLine emergency telephone units Example 1.

Storing of two different telephone numbers, one to be answered by P100 code and the other one with voice. (For test facility, see example 2.)

1. Start configuration:

0 0

2. 1st phone number:



2nd phone number:



4. Call type 1st number:



- Example: Answered with P100 code.

5. Call type 2st number:



- Example: Answered as voice call.

6. Alarm button delay:



- Example: 3 seconds delay.

7. End configuration:

#### Example 2.

SLCC (SafeLine Call Centre) and 3 day test.

Start configuration:

0 0

2. Enter P100 ID code



Lift ID code (each lift must have its own unique code).

Set test alarm type:

- Example: Test alarm type P100.

4. Set number of days between test alarm:

LMS phone number:

(Only if using SLCC)

Test alarm:



End configuration:



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#### Parameter list

CONFIGURATION DATA	CODE	DATA	COMMENTS
Enter configuration mode		00	
Enter password		*#	Default = 0000
Exit configuration mode		*00*#	
ALARM CODES	CODE	DATA	COMMENTS
P100 ID code	*01*	#	P100 is always 8 digits
CPC ID code	*02*	#	CPC 6-8 digits
Q23 ID code	*03*	#	Q23 is always 12 digits
TELEPHONE NUMBERS	CODE	DATA	COMMENTS
1st Phone number	*11*	#	Phone number to alarm receiver: 1-20 digits.
2nd Phone number	*12*	#	If calling through a switchboard, delay time
3rd Phone number	*13*	#	can be set by adding asterisks (*) between
4th Phone number	*14*	#	leading number of the switchboard and
			telephone number for the alarm call receiver.
			Each asterisk (*) is equal to one second delay.
			Example #1: *11*0**1234567#
			Example #2: *11*# deletes the phone no.
CALLTYPE	CODE	DATA	COMMENTS
Call type 1st number	*21*	-#	Change the call type of the stored telephone
Call type 2nd number	*22*	-#	numbers:
Call type 3rd number	*23*	-#	0 = P100
Call type 4th number	*24*	-#	1 = VOICE (default)
Call type 4th humber	24	- π	2 = Q23
			3 = CPC
			Change this only if your alarm operator uses any of the mentioned protocols.
Call type LMS number	*30*	-#	LMS (Lift Monitoring System) call type
			0 = P100
			3 = CPC (Only battery alarm)
			5 = SMS

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TEST ALARM & BATTERY ALARM	CODE	DATA	COMMENTS
LMS phone number	*16*	#	LMS (Lift Monitoring System) phone number to alarm receiver or SLCC.
Test alarm	*17*	#	Phone number to send testalarm to alarm receiver or SLCC.
Call back test alarm	*19*	#	Triggers a test alarm event to a user selected phone number. The call is made after the configuration is terminated.
Days between tests	*27*	<b>#</b>	Number of days between test alarms, 00-99 days. Always two digits. Max 3 days according to EN 81-28.  00 = No test alarms
Test alarm protocol	*31*	-#	0 = P100 3 = CPC 4 = Caller ID
ALARMTYPE	CODE	DATA	COMMENTS
Alarm type 1st number	*41*	#	Only when using CPC as alarm protocol Normally 10 or 27, check with your alarm company!
Alarm type 2nd number	*42*	#	
Alarm type 3rd number	*43*	#	
Alarm type 4th number	*44*	#	
Alarm type LMS	*45*	#	LMS (Lift Monitoring System) (Battery alarm) Normally 17
Alarm type Test alarm	*46*	#	Normally 26

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Record distress message played in the lift car.  ### This message will be played in the lift car when the emergency lift telephone starts calling the alarm centre, so make sure it's quiet when recording the message.  ### Papel of	DISTRESS MESSAGE	CODE	DATA	COMMENTS
receiver and in the car when the call is answered. Make sure that there is no noise in the background when recording the message.  Record alarm message from bus unit 2 to alarm central  Record alarm message from bus unit 4 to alarm central  Record alarm message from bus unit 4 to alarm central  Record alarm message from bus unit 5 to alarm central  Record alarm message from bus unit 5 to alarm central  Record alarm message from bus unit 5 to alarm central  Record alarm message from bus unit 5 to alarm central  Record fire message  *55* "Speak"#  "Speak"#  To play the recorded message, press the desired parameter followed by #.  For example: *61*# in oder to play the message from the bus unit.  Poptions for the recorded distress message  *60* #  Options for the recorded message from bus unit 1  Coptions for the recorded message from bus unit 2  Coptions for the recorded message from bus unit 4  Coptions for the recorded message from bus unit 5  Coptions for the recorded message from bus unit 4  Coptions for the recorded message from bus unit 5  Coptions for the recorded message from bus unit 4  Coptions for the recorded message from bus unit 5  Coptions for the recorded message from bus unit 6  Coptions for the recorded message from bus unit 6  Coptions for the recorded message from bus unit 5  Coptions for the recorded message from bus unit 6  Coptions for the recorded message from bus unit 6  Coptions for the recorded message from bus unit 6  Coptions for the recorded message from bus unit 6  Coptions for the recorded fire *66* -#  *66* #  Coptions for the recorded fire *66* -#  *66* #  Coptions for the recorded fire *66* -#  *66* #  Coptions for the recorded fire *66* -#  *66* #  Coptions for the recorded fire *66* -#  *66* #  Coptions for the recorded fire *66* -#  *66* #  Coptions for the recorded fire *66* -#  *66* #  Coptions for the recorded fire *66* -#  *66* *66* #	9 , ,	*50*	"Speak" #	when the emergency lift telephone starts calling the alarm centre, so make sure it's quiet when recording the message.  Example of message:  "Please do not panic, the emergency telephone is now calling the emergency
Record alarm message from bus unit 2 to alarm central  Record alarm message from bus unit 3 to alarm central  Record alarm message from bus unit 4 to alarm central  Record alarm message from bus unit 4 to alarm central  Record alarm message from bus unit 5 to alarm central  Record alarm message from bus unit 6 to alarm central  Record alarm message from bus unit 6 to alarm central  Record fire message  *55*  "Speak"#  "Speak"#  To play the recorded message, press the desired parameter followed by #. For example: *61*# in oder to play the message from the bus unit.  *60*  "Speak"#  Options for the recorded message from bus unit 2  Options for the recorded message from bus unit 2  Coptions for the recorded message from bus unit 3  Coptions for the recorded message from bus unit 3  Coptions for the recorded message from bus unit 3  Coptions for the recorded message from bus unit 4  Coptions for the recorded message from bus unit 5  Coptions for the recorded message from bus unit 6  Coptions for the recorded message from bus unit 6  Coptions for the recorded message from bus unit 6  Coptions for the recorded message from bus unit 6  Coptions for the recorded message from bus unit 6  Coptions for the recorded message from bus unit 6  Coptions for the recorded message from bus unit 6  Coptions for the recorded message from bus unit 6  Coptions for the recorded message from bus unit 6  Coptions for the recorded message from bus unit 6  Coptions for the recorded fire message.  Example of message: This is an alarm from the lift on 5th avenue. To hearthe message: This is an alarm from the lift on 5th avenue. To hearthe message: This is an alarm from the lift on 5th avenue. To hearthe message: This is an alarm from the lift on 5th avenue. To hearthe message: This is an alarm from the lift on 5th avenue. To hearthe message: To play the recorded message: To play the recorded message: To play the recorded message: This is an alarm from the lift on 5th avenue. To play the recorded message: To play the recorded message: To pla		*51*	"Speak"#	receiver and in the car when the call is
Record alarm message from bus unit 3 to alarm central  Record alarm message from bus unit 4 to alarm central  Record alarm message from bus unit 4 to alarm message from bus unit 6 to alarm central  Record alarm message from bus unit 6 to alarm central  Record fire message  *56*  "Speak"#  Record fire message  *57*  "Speak"#  Speak"#  Record fire message  *57*  "Speak"#  Options for the recorded message from bus unit 1  Coptions for the recorded message from bus unit 2  Coptions for the recorded message from bus unit 3  Coptions for the recorded message from bus unit 3  Coptions for the recorded message from bus unit 4  Coptions for the recorded message from bus unit 4  Coptions for the recorded message from bus unit 5  Coptions for the recorded message from bus unit 6  Coptions for the recorded message from bus unit 7  Coptions for the recorded message from bus unit 8  Coptions for the recorded message from bus unit 9  Coptions for the recorded message from bus unit 1  Coptions for the recorded message from bus unit 4  Coptions for the recorded message from bus unit 5  Coptions for the recorded message from bus unit 6  Coptions for the recorded message from bus unit 6  Coptions for the recorded message from bus unit 6  Coptions for the recorded message from bus unit 6  Coptions for the recorded message from bus unit 6  Coptions for the recorded message from bus unit 6  Coptions for the recorded message from bus unit 6  Coptions for the recorded message from bus unit 6  Coptions for the recorded fire message from bus unit 6  Coptions for the recorded fire message from bus unit 6  Coptions for the recorded fire message from bus unit 6  Coptions for the recorded fire message from bus unit 6  Coptions for the recorded fire message from bus unit 6  Coptions for the recorded fire message from bus unit 6  Coptions for the recorded fire message from bus unit 6  Coptions for the recorded fire message from bus unit 6  Coptions for the recorded fire from bus unit 6  Coptions for the recorded fire from bus unit 6  Coptions		*52*	"Speak"#	in the background when recording the
Record alarm message from bus unit 4 to alarm central  Record alarm message from bus unit 5 to alarm central  Record alarm message from bus unit 6 to alarm central  Record fire message  *55*  "Speak"#  "Speak"#  To terminate the call press "1". To terminate the call press "4". To play the recorded message, press the desired parameter followed by #. For example: *61*# in oder to play the message from the bus unit.  Record fire message  *57*  "Speak"#  "Speak"#  "Speak"#  To play the recorded message, press the desired parameter followed by #. For example: *61*# in oder to play the message from the bus unit.  0 = Disable recorded message.  1 = Enables recorded message.  1 = Enables recorded message.  2 = Enables recorded message.  2 = Enables recorded message.  4 = Enables recorded message.  5 = Enables recorded message.  6 = Enables recorded message.  7 = Enables recorded message.  8 = Enables recorded message.  9 = Enables recorded message.  1 = E	9	*53*	"Speak"#	<b>Example of message:</b> This is an alarm from the lift on 5th avenue.
Record alarm message from bus unit 5 to alarm central  Record alarm message from bus unit 5 to alarm central  Record alarm message from bus unit 6 to alarm central  Record fire message  *57*  "Speak"#  Record fire message  *57*  "Speak"#  To play the recorded message, press the desired parameter followed by #. For example: *61*# in oder to play the message from the bus unit.  0 = Disable recorded message. 1 = Enables recor		*54*	"Speak"#	quality of the message, press "1".
Record alarm message from bus unit 6 to alarm central  Record fire message  *57*  "Speak"#  O = Disable recorded message.  1 = Enables recorded message.  Options for the recorded message from bus unit 1  Options for the recorded message from bus unit 2  Options for the recorded message from bus unit 2  Options for the recorded message from bus unit 3  Options for the recorded message from bus unit 3  Options for the recorded message from bus unit 4  Options for the recorded message from bus unit 5  Options for the recorded message from bus unit 5  Options for the recorded message from bus unit 6  Options for the recorded message from bus unit 6  Options for the recorded message from bus unit 6  *66*  "Speak"#  Options for the recorded message from the bus unit.  "Speak"#  Options for the recorded message from the bus unit.  "Speak"#  Options for the recorded message from the bus unit.  "Speak"#  Options for the recorded message from the bus unit.  "Speak"#  "Speak"#  O= Disable recorded message.  1 = Enables recorded message.  "60*  "#  "60*  "#  "60*  "#  "60*  "#  "60*  "#  "60*  "#  Options for the recorded message from the bus unit.  "60*  "6	Record alarm message from bus unit 5 to alarm central	*55*	"Speak"#	To play the recorded message, press the desired parameter followed by #.
Options for the recorded distress message  Options for the recorded message from bus unit 1  Options for the recorded message from bus unit 2  Options for the recorded message from bus unit 3  Options for the recorded message from bus unit 3  Options for the recorded message from bus unit 4  Options for the recorded message from bus unit 4  Options for the recorded message from bus unit 5  Options for the recorded message from bus unit 6  Options for the recorded message from bus unit 6  Options for the recorded message from bus unit 6  Options for the recorded message from bus unit 6  Options for the recorded message from bus unit 6  Options for the recorded fire message from bus unit 6  Options for the recorded fire message from bus unit 6  Options for the recorded fire message from bus unit 6  Options for the recorded fire message from bus unit 6  Options for the recorded fire message from bus unit 6		*56*	"Speak"#	
message  *60* #  Options for the recorded message from bus unit 1  *61* #  Options for the recorded message from bus unit 2  *62* #  Options for the recorded message from bus unit 3  *63* #  Options for the recorded message from bus unit 4  Options for the recorded message from bus unit 5  *65* #  Options for the recorded message from bus unit 5  *66* #  Options for the recorded message from bus unit 6  *66* #  Options for the recorded fire message from bus unit 6  *67* -#	Record fire message	*57*	"Speak"#	
Options for the recorded message from bus unit 1  Options for the recorded message from bus unit 2  Options for the recorded message from bus unit 3  Options for the recorded message from bus unit 3  Options for the recorded message from bus unit 4  Options for the recorded message from bus unit 4  Options for the recorded message from bus unit 5  Options for the recorded message from bus unit 5  Options for the recorded message from bus unit 6  Options for the recorded message from bus unit 6  Options for the recorded message from bus unit 6  Options for the recorded fire message from bus unit 6  Options for the recorded fire message from bus unit 6  Options for the recorded fire message from bus unit 6	•	*60*	-#	
from bus unit 1  *61* #  Options for the recorded message from bus unit 2  *62* #  Options for the recorded message from bus unit 3  *63* #  Options for the recorded message from bus unit 4  Options for the recorded message from bus unit 5  *64* #  Options for the recorded message from bus unit 5  *65* #  Options for the recorded message from bus unit 6  *66* #  Options for the recorded fire message from bus unit 6  *67* -#	message	*60*	#	
*61* #  Options for the recorded message from bus unit 2  *62* #  Options for the recorded message from bus unit 3  *63* #  Options for the recorded message from bus unit 4  Options for the recorded message from bus unit 5  *64* #  Options for the recorded message from bus unit 5  *65* #  Options for the recorded message from bus unit 6  *66* #  Options for the recorded fire message from bus unit 6  *66* #		*61*	-#	
from bus unit 2  *62* #  Options for the recorded message from bus unit 3  *63* #  Options for the recorded message from bus unit 4  Options for the recorded message from bus unit 5  *65* #  Options for the recorded message from bus unit 5  *66* #  Options for the recorded message from bus unit 6  *66* #  Options for the recorded fire message from bus unit 6  *67* -#	Trombus unit i	*61*	#	
*62* #  Options for the recorded message from bus unit 3  *63* -#  *63* #  Options for the recorded message from bus unit 4  *64* #  Options for the recorded message from bus unit 5  Options for the recorded message from bus unit 5  *65* -#  Options for the recorded message from bus unit 6  *66* -#  Options for the recorded fire message from bus unit 6  Options for the recorded fire message from bus unit 6		*62*	-#	
from bus unit 3  *63* #  Options for the recorded message from bus unit 4  Options for the recorded message from bus unit 5  Options for the recorded message from bus unit 5  Options for the recorded message from bus unit 6  Options for the recorded fire message from bus unit 6  *66* #  Options for the recorded fire message from bus unit 6  *67* -#	ITOTT bus unit 2	*62*	#	
*63* #  Options for the recorded message from bus unit 4  Options for the recorded message from bus unit 5  Options for the recorded message from bus unit 5  Options for the recorded message from bus unit 6  Options for the recorded fire *66* #  Options for the recorded fire *67* -#		*63*	-#	
from bus unit 4  *64* #  Options for the recorded message from bus unit 5  *65* -#  Options for the recorded message from bus unit 6  *66* -#  Options for the recorded fire *67* -#	from bus unit 3	*63*	#	
*64* #  Options for the recorded message from bus unit 5  *65* #  Options for the recorded message from bus unit 6  *66* #  Options for the recorded fire *67* -#  message		*64*	-#	
from bus unit 5  *65* #  Options for the recorded message from bus unit 6  *66* -#  *66* #  Options for the recorded fire message message	mom bus unit 4	*64*	#	
*65* #  Options for the recorded message from bus unit 6  *66* #  Options for the recorded fire message messag		*65*	-#	
from bus unit 6  *66* #  Options for the recorded fire *67* -# message		*65*	#	
*66* #  Options for the recorded fire *67* -# message				
message		*66*	#	
*67* #		*67*	-#	
	шеззауе	*67*	#	

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OTHER CODES	CODE	DATA	COMMENTS
2G/3G/4G	*07*	-#	Selects which network combination to be available when * IF-BOARD-4G is installed 0 = 2G + 3G + 4G (default) 1 = 2G + 3G 2 = 2G + 4G 3 = 3G + 4G 4 = 2G 5 = 3G 6 = 4G
Modem functions	*09*	-#	0 = USB 1 = Series (RS232)
Repeated alarm	*39*	-#	Repeated alarms: Battery failure, Mic/Speaker failure, Stuck button. Alarm action repeats every 24h until the problem is resolved.  0 = Off (default) 1 = On
Buzzer	*71*	- #	The buzzer will sound at incoming call or at intercom use.  0 = Off  1 = On (default)
Ring-tone timeout	*72*	#	Number of ring signals before dialling the next number (default = 08).
External inputs - Function	*73*	#	The first number selects the input, i.e. Input 1 or Input 2.  The second number selects the function.  0 = None 1 = Filter 2 = LMS/SMS 3 = Clear/Maintenance 4 = Fire Mode (default = input 2) 5 = Alarm Button (default = input 1) 6 = Call Delay  Example: *73*11# - Input 1, Filter *73*26# - Input 2, Call Delay
External inputs - Input N/O or N/C	*74*	#	The first number selects the input, i.e. Input 1 or Input 2. The second number selects N/O (0) or N/C (1). Defult = N/O  Example: *74*11# - Input 1, N/C *74*20# - Input 2, N/O
Hotline	*75*	- #	Phone connects directly to a fixed receipient without phone number.  0 = Standard phone line (default)  1 = Hotline

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OTHER CODES	CODE	DATA	COMMENTS
Compatibility mode	*77*	- #	<b>0 = Automatic voice switching</b> (default) The call is validated when there is a voice response. The call is terminated by pressing "#".
			1 = Kone ECII (lift telephone) When there is a voice response, some ascending tones will be heard. The call is validated by pressing "4". The call is terminated by pressing "0". The call is terminated without reciept notification by pressing "2"(the unit will call the next number).
			2 = Manual voice switching When there is a voice response, some ascending tones will be heard. The call is validated by pressing "4". Unit is still in automatic mode.' To enter manual mode and talk press "*. To listen press "7". Go back to automatic mode press "4". The call is terminated by pressing "#". It is possible to enter manual voice switching mode although the unit is programmed as automatic by pressing "*". No ascending tones will be heard. For repeating the Alarm messages to operator, press "1" in all in/out going calls.
			3 = Swiss Mode (Alarm operator mode) Only to be used in voice mode. Disconnect by "0". Dials the next number if call timeout, blocking tone, new dailing tone, and operator silence.
Indicator mode	*78*	- #	0 = Standard (default) 1 = Strictly EN81-28
Maximum communication time. Incoming/outgoing calls	*79*	- #	1 - 5 minutes. (Default: VOICE = 5 min, other protocols = 8 min)
Reset active alarm	*80*	- #	0 = Off 1 = On (default)
Auto answer	*81*	#	Number of signals before SafeLine answers incoming call. Can be set from 00-16 (default = 02). 00 = Never answering.
Unit number	*82*	- #	Unit number [0] is set by default, and means that the unit will respond immediately.
			Unit number [1-9] is used when the units are sharing the same phone line. When the unit number is assigned, the specified unit is accessible for configuration.
Detect dial tone	*83*	- #	0 = Off 1 = On (default)
			Set to off if SafeLine has problem to detect the dial tone.

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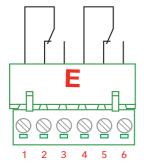
OTHER CODES	CODE	DATA	COMMENTS
Receipt to alarm receiver	*84*	-#	Select which message(s) to send to the alarm receiver at an alarm call.  0 = None (default)  1 = Start of alarm  2 = Start+end of alarm
Break on new alarm	*86*	-#	Disconnects a call longer than 60 sec. at new activation of the alarm button and calls the next emergency call number.  0 = Off 1 = On (default)
Alarm button delay time	*87*	#	Delay time from pressing the alarm button until activating the alarm. 00-25 seconds. Default = 05
Outputs (Relay)	*88*	#	The first number selects the relay output, i.e. Relay 1 or Relay 2.  The second number selects the function. For SW 4.00 or later, the following parameters are used:  0 = Alarm status outputs (default relay 1) 1 = Battery failure (default relay 2) 2 = Pictogram (Relay 1: yellow, relay 2: green) 3 = Activate with DTMF 8/9 (relay 1 - DTMF 8, relay 2 - DTMF 9) 4 = Manual reset 5 = Emergency call failure 6 = System failure 7 = Emergency bell  Example: *88*11# - Relay 1, battery failure *88*26# - Relay 2, system failure  For more information, please refer to "Relay functions" (page 32) For SW previous to 4.00, the following parameters are used: 0 = Standard (default) 1 = EN81-28 Pictograms 2 = DTMF-controlled 3 = Manual - ECF (Emergency Call Fail) For more information about the parameters in the older versions, please contact the support team.
Bus unit	*89*	#	Selected alarm input type for the bus unit (N/O or N/C). First number selects the bus unit (1-6). Second unit selects N/O (0) or N/C (1). Example: *89*21# sets bus unit 2 as N/C

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OTHER CODES	CODE	DATA	COMMENTS
Voice station - Integrated emergency bell	*90*	#	Local configuration of emergency bell voice station. First number selects voice station (1-6). Second number selects Off(0 = default) or On (1).
			Example: *90*21# sets voice station 2 to On
Pwd for remote configuration	*91*	#	Change password (default=0000).
Operator silence disconnect	*92*	- #	Disconnects the call when the alarm operator has been quiet for longer than the time set.
			0 = Off(default) 1 = 30 sec 2 = 60 sec 3 = 90 sec
Fallback	*93*	-#	0 = Disabled (default) 1 = Priority PSTN 2 = Priority GSM
Simulate an alarm event	*94*	-#	Triggers an alarm event after configuration is terminated.
			1 = Emergency call 2 = Test alarm 3 = Battery failure 4 = Microphone/speaker failure 5 = Receipt on voice call 6 = Maintenance 7 = Main unit power failure 8 = Stuck button alarm
GSM/PSTN - RX audio level	*96*	-#	Increases the received audio level. Is used only if the audio level from the alarm central is to low.  0 = 0% (default)  1 = +25%  2 = +50%  3 = +75%  4 = +100%
			<b>Note.</b> SW 4.4 0 or later is required. For PSTN, HW 1.41 or later is required.
Background level compensation	*97*	-#	0 = Off (default) 1 = On
Reset to default settings	*99*	-#	1 = Factory standard 2 = Default P100 (The following codes will be set): *21*0#, *22*0#, *27*03#, *80*1#, *84*1#, *88*1#
			3 = Default CPC (The following codes will be set): *21*3#, *22*3#, *27*03#, *80*1#, *84*1#, *88*1#
			4 = Default VOICE (The following codes will be set): *21*1#, *22*1#, *27*03#, *80*1# *84*1#, *88*1#

#### **Relay functions**

This applies for SW 4.00 or later. (For functions of earlier versions, please contact the Support team.) Relays 1 and 2 can be programmed independently.



#### Alarm status outputs

Relay will be activated when set time is reached

Relay will be deactivated when emergency call ends.



#### Battery failure

- Relay will be activated when the battery test has failed.
- Relay will be deactivated by pressing the reset button.

#### Pictogram yellow (only relay 1)

- Relay will be activated when the alarm button is pressed (yellow pictogram).
- Relay will be deactivated when the reset button is pressed or if alarm centre presses "5".

#### Pictogram green (only relay 2)

- Relay will be activated when the call is acknowledged (green pictogram).
- Relay will be deactivated when the call is disconnected.

#### Activate with DTMF 8 (only relay 1)

• Relay will be activated for 5 seconds when DTMF "8" is pressed.

#### Activate with DTMF 9 (only relay 2)

Relay will be activated for 5 seconds when DTMF "9" is pressed.

#### Manual reset

Relay will be activated when set time reached.

#### Emergency call failure

 Relay will be activated when the emergency call failed after 12 attempts, "Emergency Call Fail".

#### System failure

- Relay will be activated when power (230 VAC) and PSTN/GSM net is OK
- Relay will be deactivated when power supply is gone more then 15 min or when there is no GSM-net.

#### **Emergency bell**

- Relay will be activated when the emergency bell input is active.
- Relay will be deactivated when the emergency bell input is deactivated.

#### Call retry failure

- Relay is activated when current relay is in Standby Mode.
- Relay is deactivated if failing to deliver an alarm. If Fallback is active, both interfaces have failed. Relay closes at successful deliverance

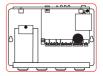
#### Automatic emergency button check

- Relay is active once every day, checking emergency button.
- Relay is deactivated when emergency button input is changed, or if DB collective fault is programmed on an output.

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# "DB Special" relay function

Activate this relay function in the SafeLine CONNECT app or SafeLine Pro. A relay function combining 3 different relay functions in one. When function is active it is affected by 3 failures:



#### 1. Battery failure

- Deactivates in case of failed battery test
- Resets by pressing the "Reset Button"

#### 2. Automatic emergency button check fault

- Relay activates once every day. If something is wrong with button, an alarm is sent to the alarm receiver.
- If DB collective fault is programmed on an output, this is released.
- Resets when emergency button input is changed.

#### 3. Call retry failure

- Deactivates if the unit after programmed number of tries fails with alarm drop-off (if Fallback is activated both interfaces have failed).
- Resets in case of successful alarm delivery
- Resets by pressing the "Reset Button"

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#### Calling with SafeLine SL6+

Installing the handset and the SL6+ in the machine room is recommended

The handset can not be called from the car unit.

#### The SL6+ can call in the following ways:

- 1. Intercom between machine room and car/pit/car-top, see below.
- 2. Make calls with a normal fixed phone line and through GSM.
- 3. Emergency calls to numbers at the press of the alarm button.
- 4. Test alarms at preset intervals.
- 5. Send receipts to SLCC alarm receiver for defined conditions.

6. Send SMS to one or several GSM phones at defined conditions (GSM only).

7. Provoke test calls.



((رزا| Intercom between machine

room and car/pit/car-top.

#### Intercom between main unit and voice Station

#### Main station to voice station:

Press 1-6 on the handset to call respective voice station.

#### Voice station to main station:

Press the button on the voice station briefly to call the main station. (Hold the button for 5 seconds to make an emergency call.)

#### **Outgoing call**

Press 0 to dial external telephone number. If the Safeline SL6+ is connected to a PABX (switchboard), press 0 again for external dial tone to calling out to the PSTN network. If a GSM board is installed, the SL6+ will use it as the default. If you want to use PSTN line instead, ensure that there is no GSM board installed.

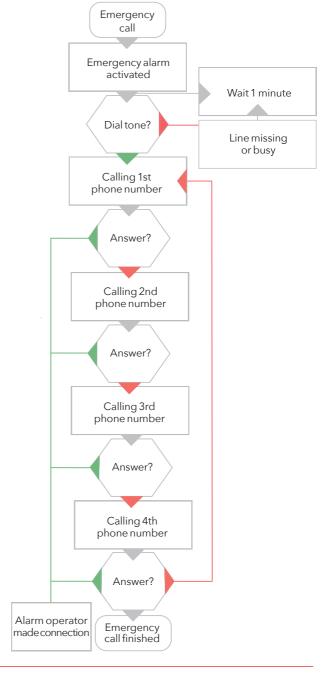
Turn off outgoing calls through the configurational handset using the SafeLine CONNECT app:

Configuration -> Calls -> Config-handset test call

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# Emergency calling process

With 4 stored telephone numbers in the system, each number can be called 3 times. This adds up to the 12 call limit. Push the alarm button in the lift cabin to initiate an emergency call. To restart the dialling process, push the alarm button again.



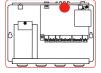
Operating 35 SL6+ v.3.31 EN

#### **Fallback**

For programming, use SafeLine Pro, SafeLine CONNECT or parameter \*93\* (please refer to the corresponding code in the "Parameter List").

Note: if no active SIM card is installed, GSM interface should be disabled.

The Fallback function gives access to use both the PSTN and GSM for emergency calls. Set one as a priority and the other one works as fallback in case the prioritized one fails (the function requires that both phone line and GSM SIM card are active).



Enable Fallback through SafeLine CONNECT or SafeLine Pro. When activating Fallback, both systems have to be operative. Incoming calls are handled by both interfaces, but will not be used simultaneously. The chosen interface is locked while in-/outgoing calls are ongoing.

Note: when Fallback is active, phone numbers' prefix is filtrated automatically (e.g. 0\*0890510 becomes 0890510). This lets the same configured number be used for both PSTN and GSM.



#### LED 3:

#### Fallback disabled - PSTN interface

Flashing Red, 400/400 ms: no line

Slowly flashing green, 200/4600 ms: line OK

Flashing green, 400/400 ms: connecting call

Continuous green: call connected



#### Fallback disabled - GSM interface

Continuous red:

GSM interface error (PIN, SIM, communication)

Flashing red, 400/400 ms: no GSM net

Slowly flashing green, 200/4600 ms: line OK

Flashing green, 400/400 ms: connecting call

Continuous green: call connected



#### Fallback enabled

Continuous red:

GSM interface error (PIN, SIM, communication)

Flashing red, 400/400 ms:

Neither line nor GSM OK

Flashing red/green, 400/400 ms: PSTN-line or GSM net missing

Slowly flashing green, 200/4600 ms: line OK

Flashing green, 400/400 ms: connecting call

Continuous green: call connected

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## Fallback LMS codes

#### Fallback LMS codes:

**Z001:** PSTN: If mains power is out longer than set time (Fallback Alarm Delay), an LMS is sent with the code **Z001**.

**Z002:** When power returns and has been back for more than set time, an LMS is sent with the code Z002.

**Z003:** GSM: If RSSI levels are lower than limit value (5) for set time (Fallback Alarm Delay), an LMS is sent with the code Z003

**Z004:** When RSSI levels are higher than limit value (5) and has been for more than set time, an LMS is sent with the code Z004.

**Z005:** PSTN: If alarm drop-off fails through any of the interfaces (e.g. no response, busy line, no P100 start tone/acknowledgement) and Fallback is active, an LMS is sent with the code Z005.

**Z006:** PSTN: If alarm drop-off fails through the prioritized interface, the unit also tries the secondary interface. If drop-off fails through any of the interfaces (e.g. no response, busy line, no P100 start tone/acknowledgement) and Fallback is active, an LMS is sent with the code Z006.

**Z007:** GSM: If alarm drop-offfails through any of the interfaces (e.g. no response, busy line, no P100 start tone/acknowledgement) and Fallback is active, an LMS is sent with the code Z007.

**Z008:** GSM: If alarm drop-offfails through any of the interfaces (e.g. no response, busy line, no P100 start tone/acknowledgement) and Fallback is active, an LMS is sent with the code Z007.

**Z009:** If no dial tone is detected through outgoing PSTN call attempt, call attempts are cancelled through PSTN so the unit may try GSM immediately instead. If the call attempt is cancelled due to missing dial tone while Fallback is active, an LMS is sent with the code Z009.

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#### Fire mode

The SL6+ system can be used as a firefighter intercom system. Depending on the configuration, you can have up to 6 voice stations as fire units. Start Fire Mode by activating input 2 (default) on the main unit. Refer to the "Wiring diagram SL6+ main unit" (page 10).



#### Configuration

Use SafeLine Pro, CONNECT or parameter \*73\* (please refer to the corresponding code in the "Parameter List") to configure the units for Fire mode.

- Set Input 1 to Fire mode: \*73\*14#.
- Set Input 2 to Fire mode: \*73\*24# default.
- Select other voice stations to be included in Fire mode with SL Pro.

#### Operation

Activating Fire mode does the following:

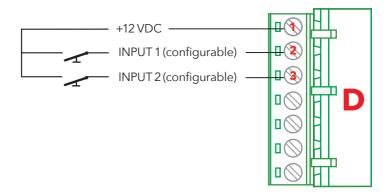
A siren sound is heard in the speaker of the main unit during the active time. Press the reset button to stop the siren sound.

A voice message specifically for Fire mode is played. Refer to the "Distress message"-section of the "Parameter List" table.

When Fire mode is activated the units operate as intercom units only and can not make emergency calls.

#### Voice communication

- Voice station in the car: microphone and speaker are both active.
- Other units: the alarm button has the "Push to talk/Release to listen"-function.
- A short beep is heard when you press/release the button.
- When in Fire mode, use the configuration handset to participate in an intercom conversation.
- The yellow pictogram lights up when Fire mode is activated.
- The green pictogram lights up when in speech mode and is out when listening.
- End Fire mode by disabling the input (1 or 2) on the main unit configured for Fire mode.



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#### **Battery function**

The expected life of a lead battery is approximately 3 years, but several factors can affect the battery's life time, for example:

- Ambient temperature
- Humidity,
- Long-time storage of the battery before powering, etc.
- If the battery has been completely discharged for a longer period of time, it will never regain full capacity.

#### Battery status check

- An automatic battery status check is emitted every 7 days.
- If so configured, when the battery test fails, a battery alarm will be emitted to an alarm receiver.
- Reset the alarm by pressing the reset button.

#### **Battery test**

- If the reset button is pressed 3 times within 2 seconds, a battery test will be performed. The battery test takes about 20 minutes.
- If the battery is low, the test will be cancelled. When using the relay: LED 2 and the battery alarm relay will be activated. Relays can be activated for battery alarm by using parameter \*88\* (please refer to the corresponding code in the "Parameter List").

#### Cancelling a battery test

- Press the reset button once.
- LED 2 stops flashing red.
- If the battery level drops below 10,7 V, the SL6+ does not start automatically, it must be started by pressing the reset button.

#### Testing the battery alarm

- Unplug the battery contact during the battery status check.
- The SL6+ will now emit a battery alarm and LED 2 and battery alarm relay will be activated (if so configured).

#### Changing the battery

- Disconnect the 230 VAC voltage supply.
- Change the battery (article number \*Batt 1,2 A).

#### Mains power failure

 The Mains power failure alarm is sent to the alarm receiver (SLCC) after 15 minutes of mains power failure.

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# Troubleshooting main unit

Cannot dial out.



		\ <del>\</del>
PROBLEM	POSSIBLE CAUSE(S)	SOLUTION
The unit makes an alarm call when powered up.	<ul> <li>Improper type of alarm button selected.</li> <li>Alarm button is stuck.</li> </ul>	Use SafeLine Pro or a telephone and parameter *74* and/or *89* to change from N/C (Normally closed) to N/O (Normally open) or from N/O to N/C.
The alarm start to sound directly at power-up.	<ul> <li>Output 2 is set to N/C.</li> <li>Input 2 is set to N/O as default.</li> </ul>	Place a jumper between D1 and D3, reprogram to N/O. Then remove the jumper and reboot the device.
No sound transmitted from the lift car to the call receiver.		<ul> <li>Connect a normal phone (e.g. Comphone) to the socket on the main unit and make a call to the car (press "1"). Alternatively, press "0" and wait for dial tone, then dial an external call.</li> <li>If the sound transmission is OK in both directions, check if your emergency operator supports the chosen alarm type.</li> <li>If no protocol is used, change the call type to "VOICE" using SafeLine Pro, CONNECT or program with *21**24*.</li> </ul>
Interfering noise when the call is connected.	If the main unit is installed on the car roof, the problem might be due to induction in the phone cable.	According to the telephone companies' regulations, the phone line must be installed in a separate cable.  Do a noise test (**).
GSM noise.		<ul> <li>Change the antenna position when a call is connected until you find the optimal antenna position.</li> <li>Do not install the antenna near the main unit or close to the cabling.</li> </ul>

\*, \*\*, \*\*\* Refer to chapter "Related Test Procedures"

Check the phone line connection (\*).

Verify the SIM card by inserting it

into a normal mobile phone.

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Broken line connection

No money on refill SIM

card.

(LED 3 not flashing green).

## Troubleshooting voice station



#### **PROBLEM**

#### POSSIBLE CAUSE(S)

#### The unit can not make an alarm call.

- At least one phone number and/or one ID code if using data identification must be programmed to make a call from the unit.
- Refer to the parameter \*11\*.
- Button not connected.
- No voice unit connected.

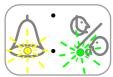
#### SOLUTION

- Check wiring.
- At least one voice station must be connected in order to make an alarm call.

#### No voice switching.

- If the main unit is installed on the car roof, the problem might be due to induction in the phone cable.
- Place the bus cable in an environment with little external interference(\*\*\*).
   Do a microphone test(\*\*\*).

The pictogram LEDs are flashing quickly and simultaneously.



- The address switch is set to an invalid number (0, 7, 8, 9). Valid numbers are 1-6.
- The address switch setting has been changed during operation.
- Change the address switch to a valid number and restart the SL6 unit

The pictogram LEDs are flashing alternately.





Bus communication error caused by any of the following reasons:

- Two or more units have the address switch set to the same number.
- Bus cable broken.
- Incorrect wiring of the bus cable.
- Ensure that the address switches of the units are set to different numbers.
- Ensure that the bus cable is not broken.
- Check the bus cable installation.

The telephone beeps every 5 seconds.

This is to notify the passengers of the ongoing call (anti eavesdropping).

This is a normal procedure.

\*, \*\*, \*\*\* Refer to chapter "Related Test Procedures"

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#### Related test Procedures



#### \* Telephone line check

- 1. Power up the unit.
- 2. Lift the configuration handset.
- 3. Wait for dial tone.
- 4. Dial "0".
- 5. Wait for new dial tone.
- 6. Call another telephone and start a normal conversation.
- 7. Hang up the configuration handset to end the call.

If one of these steps is not successful the problem may not be with the unit, but due to incorrect wiring or faulty/missing telephone line.

#### \*\* Noise check

- 1. Power up the unit.
- 2. Lift the configuration handset.
- 3. Wait for dial tone.
- 4. Dial "0".
- 5. Wait for new dial tone.
- 6. Press a number on the keyboard.
- 7. The dial tone stops and you hear silence.
- 8. When you hear noise or humming, the problem may be due to induction in the phone cable.
- 9. Hang up the configuration handset to end the call.

According to the phone companies' regulations, the phone line must be installed on a separate cable.

Redirect the cable by changing its position or finding another pair that is free of distortion, or use shielded pair when available. When none of these solutions apply, install a separate cable for the telephone line.

#### \*\*\* Microphone check

Call in to the SL6+ and press the following numbers on the caller's phone.

- 1. Press "7" to activate the car's microphone.
- 2. Press "\*" activates microphone of the caller.
- 3. Press "4" for automatic switching of microphones.

If you can speak through the microphones the hardware is OK.

# Internal operational failures

If repeat alarms function is active - an active alarm will be re-sent each day as a reminder until problem is resolved.
Applies only to battery failure, mic/speaker failure and stuck button alarms

#### Mains failure

When mains power has failed, an alarm will be sent after 15 minutes. When mains power returns, an alarm will also be sent.

#### Mic/speaker failure

Mic/speaker is tested once per day. If one/both fails, alarm will be sent.

#### Voice station failure

If the communication is disrupted an alarm will be sent. If communication returns, an alarm will also be sent.

#### **Battery failure**

Battery tests are performed once a day. If a battery test fails, an alarm will be sent.

#### Stuck button

If pushed alarm button does not return to normal position, a stuck button alarm will be sent.

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#### **EU Declaration of Conformity**

Product: Lift telephone

Type / model: SL6+

Article no: \*\$L6, \*\$L6-4G, \*\$L6-GSM, \*\$L6-GSM-BOARD, \*\$L6-MAINBOARD, \*\$L6-MINI, \*\$L6-MINI-4G, \*\$L6-MINI-GSM, \*\$L6 A+,

\*SL6 A+ MINI, \*SL6 A+ 3G, \*IF-BOARD-4G, \*SL6-GSMR, \*SL6-MINI-GSMR

Including voice stations:

\*SLB3-COP, \*SLB3-REC-PIC, \*SLB3-REC-PIC-B, \*SLB3-SM-PIC, \*SLB3-SM-PIC-B, \*SLB3-SM-PIC-L, \*SLB-COP, \*SLB-COP2, \*SLB-COP2-L, \*SLB-COP-L, \*SLB-COP-SEP, \*SLB-IF1, \*SLB-IF2, \*SLB-RD, \*SLB-RD-BUT, \*SLB-REC, \*SLB-REC-FIRE, \*SLB-REC-FIRE02, \*SLB-REC-FIREK, \*SLB-REC-FIREK02, \*SLB-REC-LED, \*SLB-REC-PIC, \*SLB-REC-PIC-BUT \*SLB-SM, \*SLB-SM-LED, \*SLB-SM-PIC, \*SLB-SM-PIC-BUT, \*SLB-SM-PIC-LIGH, \*SLB-SMD-PIC-BUT, \*SLBR-COP, \*SLBR-SM-PIC,

 $*SLBR-SM-PIC-B, *SLBR-REC-PIC, *SLBR-REC-PIC-B, , *SLBR-REC-PIC-B_2, *SLBR-REC-PIC_3, *SLBR-RD-B-LB-REC-PIC_3, *SLBR-REC-PIC_3, *SLBR-REC-PI$ 

Manufacturer: SafeLine Sweden AB

Year: 2018

We herewith declare under our sole responsibility as manufacturer that the products referred to above complies with the following EC Directives:

#### Directives

Radio Equipment (RED):	2014/53/EU	(Including EMC 2014/30/EU, LVD 2014/35/EU)	
RoHS 2:	2011/65/EU		
Lift	2014/33/EU	(Annex 4.5 & 4.9)	

#### Standards applied

EN 81-20:2014 Lift: Safety & Technical requirements

EN 81-28:2003 Lift: Remote alarm on passenger and goods passenger lifts
EN 81-70:2003/A1:2004 Lift: Accessibility to lifts for persons including persons with disability

EN 81-72:2003 Lift: Firefighters lifts

EN 12015:2014 EMC: Emission, Electromagnetic compatibility
EN 12016:2013 EMC/Lifts: Immunity, Electromagnetic compatibility

EN 62368-1:2014/AC:2015 LVD: Information Technology Equipment

EN 50581:2012 RoHS: Technical doc. for assessment of restriction of RoHS.

For RED 2014/53/EU, an "EU-Type Examination procedure" has been applied and is certified by notified body:

TÜV AUSTRIA SERVICES GMBH, Notified Body Nr: 0408 with the supporting assessments:

Module	Notified body	Address	NB nr	Test nr
TRM-5, CYW20732S	TÜV AUSTRIA SERVICES GMBH	Deutschstraße 10, 1230 Wien	0408	INE-AT/EMV18/138
N.A.	TÜV AUSTRIA SERVICES GMBH	Deutschstraße 10, 1230 Wien	0408	INe-AT/IT-18/109
TRM-5	Phoenix testlab GmbH	Königswinkel 10, D-32825 Blomberg, Germany	0700	13-113995
GL865-Dual V3	Dekra Test & Cert	Parque Tecnologico de Andalucia / SeveroOchoa 2,	1909	53051 RBN.001
LE910-EU V2	Dekra Test & Cert	29590 Spain	1909	52382 RCB.001
CYW20732S	NTS Silicon Valley	41039 Boyce Road, Fremont, CA 94538, US	0214.26	R 104750/51

3.1 (a): Health and safety of the user

3.1 (B): Electromagnetic Compatibility

3.2: Effective use of spectrum allocated

#### Standards applied Article of Directive 2014/53/EU

EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013 EN 62311:2008 EN 301489-1v2.1.1+EN 301489-52v1.1.0 Draft

EN 301 489-17 V3.1.1

EN 301 511 V12.5.1

EN 301 908-1V11.1.1 /-2V11.1.1 /-13V11.1.1

EN 300 328 V2.1.1

EN 300 328 V2.1.1

Firmware used during assessment

Triorail TRM-5: Rev. 03.016 / Rev. 03.017 / Rev. 03.019 / Rev. 03.025

GL865-Dual V3: 16.00.152 / 16.01.150 / 16.01.153 LEQ10-EU V2: 20.00.402

LEg10-EU V2: 20.0 SafeLine SL6 4.45

Tyresö, 2017-04-07

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