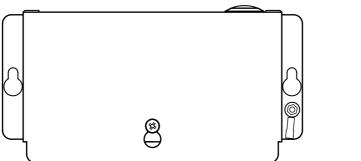
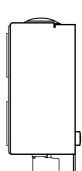


# SL2 manual





Lift Emergency Telephone www.safeline-group.com

Complies to EN81-28 and EN81-70 standards. PATENT 08163634.2

11.2022 SafeLine SL2 v.2.1.0 EN © 2022 SafeLine and all the SafeLine products and accessories are copyrighted by law.

# **Technical data**

Supply voltage: 10-30V DC. Min 40mA, Max 70mA Power:

NOTE! When using HL1 and/or SafeLine remote station with picto-

grams, the SL2 is required to be powered with 12V DC: Min 42mA,

Max 1200mA

Inputs: 10-30V DC, 5mA, optically isolated

Max 100mA, 10-30V DC, transistor outputs, open collector Pictogram outputs:

Loudspeaker: 3W, 8Ω

Size(W x D x H): 171 x 89 x 41mm

Weight: 0,47kg

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# General information

This unit was built with stateof-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

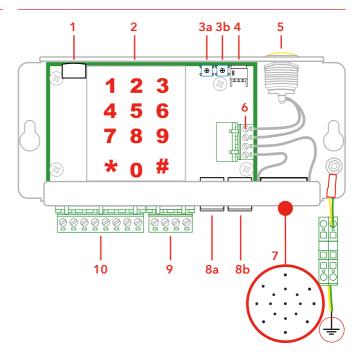
## Safety Precautions!

- 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.



# **Overview**



# 1. Microphone

Internal microphone for emergency alarms and for recording the distress and alarm messages.

# 2. Keyboard

For programming the unit.

# 3. a) Volume control for extra station 1

Turn clockwise to increase volume.

## b) Volume control for extra station 2

Turn clockwise to increase volume.

## 4. RS232 PC connection

For firmware update and programming.

## 5. Emergency call button

After an active alarm the button can be used as a reset (end of alarm) by pressing it briefly.

#### 6. Internal connector

For internal speaker and emergency call button.

#### 7. Internal speaker

For emergency calls and error messages when programming.

# 8. a) RJ12-jack for car station

b) RJ12-jack for extra station

#### Terminal E

Terminal for connection of Hearing Loop HL1.

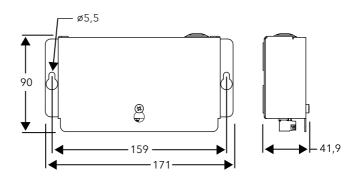
#### 10. Terminal A

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# Measurements and component list

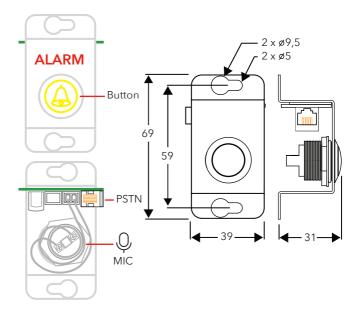
# SafeLine SL2 Main unit

Article number: \*SL2

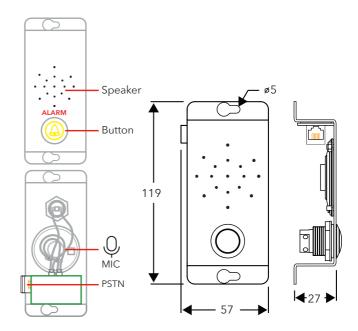


# SafeLine SL2 - alarm button and microphone

Article number: \*LT-stat01

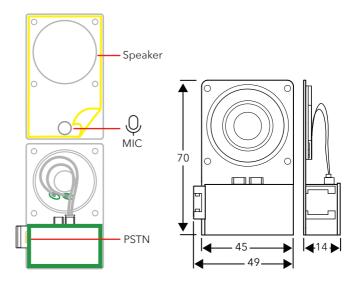


# **SafeLine SL2 - alarm button, microphone and speaker** Article number: \*LT-stat02



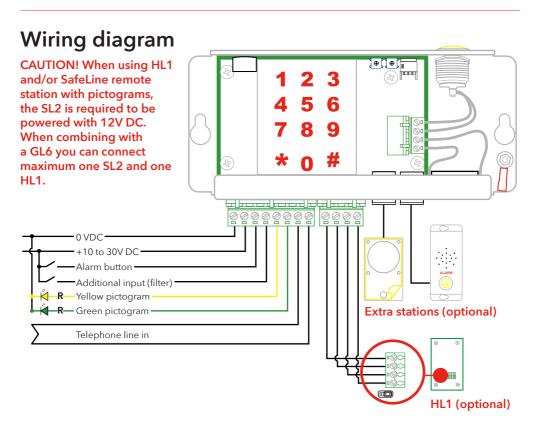
# **SL2 COP station with speaker** Article number: \*LT-stat04

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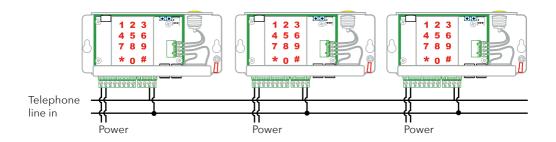
Surface has to be clean and de-greased to fixate the sticky foam tape on the COP-stations.

# Installation



# Wiring schedule Parallel wiring

With parallel wiring it is important every unit is programmed with a unit number. This cannot be done with remote programming. (Maximum 9 SafeLine Units)



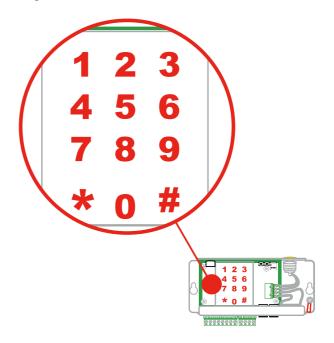
# **Configuration**

# Configuration overviews

Unit has to be connected to power source before programming begins!

# **Keyboard configuration**

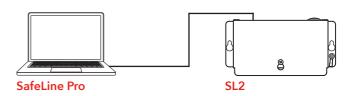
The integrated keyboard on the SafeLine board enables a fast configuration of the unit.



# Configuration with SafeLine Pro

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The unit can be configured at the office prior to the installation or at site after the installation with the help of a configuration cable (\*PCable). Use SafeLine Pro v4.02 or later.

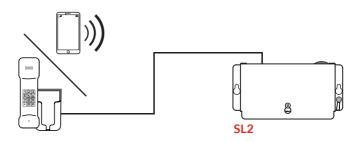


# Configuration overviews

Unit has to be connected to power source before configuration begins!

## Remote configuration

For remote configuration, you can use any PSTN tone dial phone. Dial the phone number of the SafeLine. Enter the function codes on the phone keypad to start the configuration (password has to be entered).



# Remote configuration with SafeLine ProLink

The unit can 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. Use SafeLine Pro v.4.02 or later.



# Configuration with the LYNX app

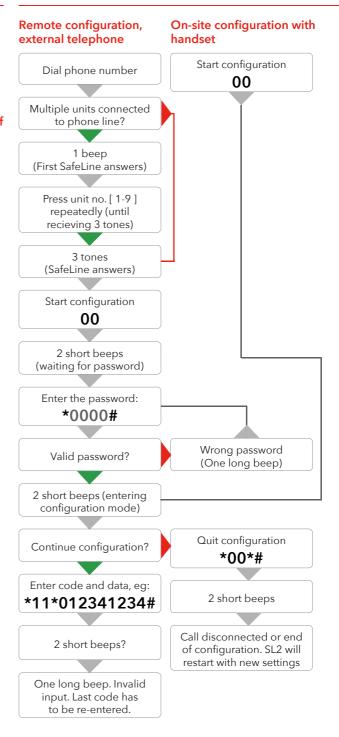
Download the LYNX-app from Google Play or the App Store and register a SafeLine account. To configure the unit through the LYNX app, CONNECTable (\*CONNECTABLE) is required. Plug in CONNECTable through the unit's serial port and configure the unit through the app just like any other unit.



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# Configuration method

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.



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# 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 autodialers units

## Example 1.

Storing of two different telephone numbers, both to be answered as voice calls. For test facility, see example 2.

1. Start configuration:

0 0

2. 1st phone number:

3. 2nd phone number:

4. Call type 1st number:

5. Call type 2st number:

6. Alarm button delay:

7. End configuration:

# Example 2

SLCC and 3 day test. (SLCC - SafeLine Call Centre)

1. Start configuration:

0 0

2. Enter P100 ID code:

3. Set test alarm type:

4. Set number of days between test alarm:

5. LMS phone number:

6. Test alarm:

7. End configuration:

# Parameter list

Programming data	Code	Data	Comments
Enter programming mode		00	
Enter password		* #	Default = 0000
Exit programming 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 0-16 digits.
2nd Phone number	*12*	#	If calling through a switch board, delay time
3rd Phone number	*13*	#	can be set by adding asterisks between leading number of the switchboard and
4th Phone number	*14*	#	telephone number for the alarm call receiver. Each asterisk is equal to one second delay. Example: *11*(0)**1234567#
Call type	Code	Data	Comments
Call type 1st number	*21*	- #	Change the call type for the telephone
Call type 2nd number	*22*	- #	numbers stored. ···· 0 = P100
Call type 3rd number	*23*	- #	1 = VOICE (Default)
Call type 4th number	*24*	- #	2 = Q23 3 = CPC
			Change this only if your alarm operator is using any of the mentioned protocols.
Call type LMS number	*30*	- #	LMS (Lift Monitoring System) call type
			0 = P100 3 = CPC (Only battery alarm)
			4 = Caller ID (Battery powered only)
Test alarm/battery alarm	Code	Data	Comments
LMS phone number	*16*	#	LMS (Lift Monitoring System) phone number to alarm receiver/SLCC.
Test alarm	*17*	#	Phone number to test alarm receiver/SLCC.
Days between tests	*27*	#	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*	- #	Protocol test alarm 0 = P100 3 = CPC 4 = Phone number used as ID.

Alarm character	Code	Data	Comments
Alarm character 1st number Alarm character 2nd number	*41* *42*	# #	Alarm character. only when using CPC as alarm protocol normally 10 or 27 check with your alarm company!
Alarm character 3rd number	*43*	#	
Alarm character 4th number Alarm character LMS	*44* *45*	# #	LMS (Lift Monitoring System) (Battery alarm) Normally 17
Alarm character Test alarm	*46*	#	Normally 26
Distress message	Code	Data	Comments
Record distress message played in the lift car.	*51*	"Speak" #	This message will be played in the lift cabin when the emergency lift telephone starts calling the alarm centre. Make sure that there is no noice in the background when recording the message. Recording will be done with the internal microphone of the SL2.  Example of message: Please do not panic, the emergency telephone is now calling the emergency call centre.
Record alarm message from Lift Car to alarm central	*52*	"Speak" #	This message will be played to the alarm receiver and in the car when the call is answered. Make sure that there is no noice in the background when recording the message. Recording will be done with the internal microphone of the SL2. Example of message: This is an alarm from the lift on 5th avenue. To hear the this message again, press "1". To terminate the call, press "#" before hanging up.
Options for the recorded distress message	*61*	- #	0 = Disable recorded message. 1 = Enables recorded message.
	*61*	#	Play the the recorded message.
Options for the recorded message from lift car	*62*	- #	<ul><li>0 = Disable recorded message.</li><li>1 = Enables recorded message.</li></ul>
	*62*	#	Play the the recorded message.
Other codes	Code	Data	Comments
End of alarm message with voice	*70*	- #	When the end of alarm signal is given (reset) the unit will automatically call the 1st emergency number that enables the technician to confirm the operator that the alarm is ended (not possible when using the messages end of alarm, see code *84*).  0 = without end of alarm call back 1 = call back end of alarm
Emergency signal in speaker	*71*	- #	The speaker siren will sound at emergency call. 1 = On 0 = Off (Default)

Other codes	Code	Data	Comments
Ring tone timeout	*72*	#	Number of ring signals before dialling the next number. (8 by default)
Additional input function	*73*	-#	Selects input function: 0 = None (Default) 1 = Filter, blocks the alarm input when active. 2 = LMS (Lift Monitoring System), sends a lift monitoring alarm at input activation. 3 = Clear/Maintenance
Additional input type	*74*	-#	0 = Normally-open contact, NO (Default) 1 = Normally-closed contact, NC
Hot Line	*75*	-#	Phone connects directly to a fixed receipient without dialling a phone number 0 = Standard phone line (Default) 1 = Hotline
Compatibillity mode	*77*	-#	0 = Automatic voice switching. 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.  3 = Swiss M (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 1 = Strictly EN81-28 2 = Strictly single EN81-28
Voice communication time-out	*79*	- #	1 - 20 minutes. Standard = 8 min
Reset active alarm automatically	*80*	#	0 = OFF 1 = ON (Default)
Auto answer	*81*	#	No of signals before SafeLine answers incoming call. Can be set from 00-16 (Default = 02, 00=Unit will not answer).
Unit number	*82*	- #	Program Unit number 1-9 (Default = 0)

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Other codes	Code	Data	Comments
Detect dial tone	*83*	-#	0 = Off 1 = On (Default) Set to off if SafeLine has problem to detect the dial tone.
Receipt to alarm receiver with P100 protocol	*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 seconds 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)
Alarm button type	*89*	- #	0 = Normally-open contact, NO (Default) 1 = Normally-closed contact, NC
Change password	*91*	#	Change password (default=0000)
Simulate an alarm event	*94*	-#	Triggers an alarm event after programming is terminated.  1 = Emergency call  2 = Test alarm  3 = Battery failure  4 = Microphone/Loudspeaker failure  5 = Receipt on voice call  6 = Maintenance  7 = Main unit power failure  8 = Stuck button alarm
Tone/Voice detection	*95*	- #	0 = Off (Default) 1 = On
Battery capacity check	*98*	#	When the battery capacity goes over the set value (10-25%) the SL2 will send a battery alarm. Recommended for lead-acid batteries 0,8 - 2,3 Ah 00 = inactive [10, 15, 20, 25] = percentage the battery capacity has dropped, (default =20) 99 = reset battery reference, in case the battery has been replaced.
Reset to default settings	*99*	-#	1 = Factory default 2 = Default P100(The following codes will be set): *21*0#, *22*0#, * 27*03#, *80*1#, *84*1# 3 = Default CPC(The following codes will be set): *21*3#, *22*3#, *27*03#, *80*1#, *84*1# 4 = Default VOICE(The following codes will be set): *21*1#, *22*1#, * 27*03#, *80*1#, *84*1# 5 = Default France (The following codes will be set): *21*1#, *22*1#, *23*1#, *24*1#, *27*3#, *31*4#, 70*1#,*80*0#, *84*2#, *89*1#, *98*20#

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# **Operation**

# LED indication for pictogram in car





#### Yellow LED

# **Green LED**

## Call in progress

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

# 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.

# Standard (\*78\*0#)

## Yellow LED

## Green LED

Light off No alarm activated Telephone line not OK.

Flashing slowly

Flashing quickly

Alarm button active.

Telephone line not OK.

Flashing twice every second

Flashing once every 5 seconds

Flashing once every 5 seconds Unit is OK.

Flashing two times every 5

seconds

Alarm filter activated.

Continuous light

Activated alarm, Remains lit until reset.

Call connected.

# Strictly EN81-28 (\*78\*1#)

# Yellow LED

# **Green LED**

Flashing

Flashing twice every second

Alarm button active.

Continuous light

Activated alarm, Remains lit

until reset.

Call connected.

#### Test alarm failure

#### Yellow LED

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#### Green LED

Light on for 1 second then light off for 1 second

Test alarm (line check) failed Returns to normal at next valid test alarm.

Test alarm (line check) failed Returns to normal at next valid test alarm.

# **Testing**

Testing the SafeLine SL2

Connect 10-30 VDC

SafeLine SL1 will make a self test

Green LED flashes 5 times. Short tone in the speaker.

Yellow LED flashes 5 times. Long tone in the speaker.

Connect telephone line

Check the mic and speaker connections

Green LED flashes every 5 sec if valid tel. line connected and set to standard.

Yellow LED flashes every 5 sec.

Press on keypad:

C

Check telephone line

Phone line dial tone

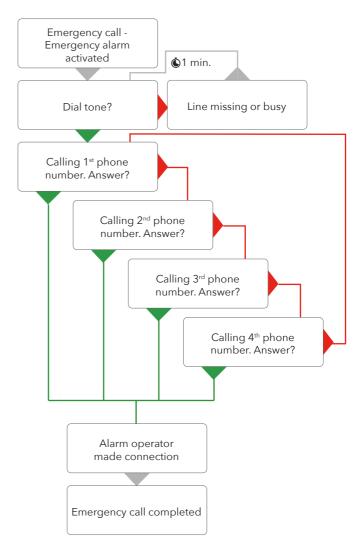
No connection

Dial out on keypad

Check landline. Go to Troubleshooting.

# 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.



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# Troubleshooting

# Emergency button \*89\*0# NO



# Emergency button \*89\*1#NC



The telephone beeps every 5 seconds during conversation.

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

The unit makes an alarm call when powered up.

- Improper type of emergency button selected. Change from NC to NO or from NO to NC.
- Emergency button is stuck.

### The unit cannot make an alarm call.

- No telephone line present, check the telephone line (\*).
- No emergency telephone number programmed.
- When using an alarm call center and communication is over protocol make sure the ID number is programmed and the correct call type is selected (Page 13 alarm codes & call type).

# After dialing strange tones or message "service not available" appears.

- Wrong telephone number programmed.
- Service is not available, check the telephone line (\*).

## Unit breaks off in the start sequence of the alarm call.

- Power supply is too weak.
- Battery is weak or not charged.

Operator cannot hear the entrapped people in the cabin. If the operator is accepting the call with a normal telephone meaning not with a receiver or over protocol, make sure that the call type is set to "VOICE" for the emergency call number.

# Operator cannot hear the entrapped people in the cabin and the call type is correct.

- Volume on the unit is set too high.
- Noise on the line prevents the microphones to automatically switch, do a noise check (\*\*).
- Microphone broken or not correctly connected, do a microphone check (\*\*\*)
- Microphone is not in line with the panel hole or rubber sleeve is badly mounted.

## Interference noise when the call is connected

• If the main unit is installed on the car roof, the problem might be due to induction. Do a noise check (\*\*).

## Poor/distorted sound quality.

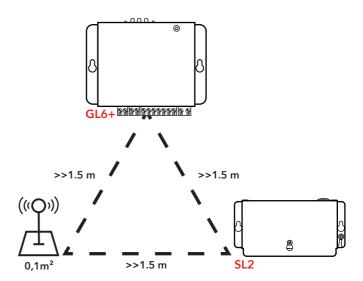
20

Volume might be set too loud! Lower the volume and check again.

# Troubleshooting

## GSM noise.

Change the antenna position when a call is connected until you find the optimal antenna position. Do not install the antenna near the main unit or close to the wiring. Normally the GSM unit, antenna and SafeLine should have a distance in between of 1,5m.



# Troubleshooting

# \* Telephone line check

- 1. Power up the unit.
- 2. Press "0" on the key board
- 3. Wait for dial tone.
- 4. Call to another telephone and make a normal conversation.
- 5. Press "#" to hang up.

If one of these steps is not successful the problem may not be with the unit but due to incorrect wiring or a faulty or missing telephone line. Final check can be done with connecting an analogue telephone system parallel on the line for testing by calling with this system.

#### \*\* Noise check

- 1. Power up the unit.
- 2. Press "0" on the key board.
- 3. Wait for dial tone.
- 4. Press a number on the keyboard.
- 5. The dial tone stops and you hear silence.
- **6.** When you hear noise or humming, the problem may be due to induction in the phone cable.
- 7. Press "#" to hang up.

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

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

# \*\*\* Microphone check

- 1. Call the SL2 and press the following numbers on the caller's phone. Press "4" first to manually switch between the phones.
- 2. Press "7" to activate the microphone in the lift cabin.
- 3. Press "\*" to activate the caller's microphone. If you can speak through the microphones the hardware is OK.



# **EU Declaration of Conformity**

Product: Lift telephone

SL6+ Type / model:

Article no: \*SL6, \*SL6-4G, \*SL6-GSM, \*SL6-GSM-BOARD, \*SL6-MAINBOARD, \*SL6-MINI, \*SL6-MINI-4G, \*SL6-MINI-GSM, \*SL6 A+,

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

\*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-FIREO2, \*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-B2, \*SLBR-REC-PIC3, \*SLBR-RD-B-L

Manufacturer: SafeLine Sweden AB

Year:

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

Lift: Remote alarm on passenger and goods passenger lifts EN 81-28:2003 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, Cetrificate Nr: INE-AT/EMV-18/138 with the supporting assessments:

Module	Notified body	Address	NB nr	Test nr
CONNECTable	FORCE Technology	Venlighedsvej 4, 2970 Hørsholm	0199	119-24187-1, 119-24187-2
TRM-5	TÜV AUSTRIA SERVICES GMBH	Deutschstraße 10, 1230 Wien	0408	INE-AT/EMV-18/138
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

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

EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013 3.1 (a): Health and safety of the user EN 62311:2008 EN 301 489-1 v2.1.1 + EN 301 489-52v1.1.0 Draft 3.1 (B): Electromagnetic Compatibility EN 301 489-17 V3.1.1 3.2: Effective use of spectrum allocated EN 301 511 V12.5.1

EN 301 908-1V11.1.1 /-2V11.1.1 /-13V11.1.1 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 LE910-EU V2: 20.00.402

SafeLine SL6 4.50

Tyresö, 2020-02-05

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