

# ***Manual for Programmering Safeline 2000 Light***



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

## *Assembly instructions*

The telephone is a two-part unit, the main unit and the Speaker unit.

The main unit is to be mounted on the wall in the lift machine room.

The speaker unit is to be mounted on either the lift car wall or ceiling.

It is also possible to mount the main unit on the lift car roof, but it is than required to place the telephone line in a separate carcable.

The alarm signal switch can be changed between NO (normally-open)/NC (normally-closed).  
The delay time, when the alarm signal switch is pushed, is adjustable 2-15 seconds.  
Transmission is done by a relay contact that can be changed between  
normally-open/normally-closed.

An separate input is dedicated for battery alarm from an external battery alarm contact  
The contact must be NO (normally open).

Mount the speaker unit in the lift car, either on the wall or the ceiling.  
To connect the speaker unit, 4-parts in the lift car cable are needed.

The speaker unit can always be connected to existing lift car cable since it is galvanically separated  
from the (PSTN) telephone network.

The telephone is using S.K. P100 and CPC protocol for communication with the operator that  
receives the alarm.

S.K. P100 and CPC protocol is the most frequent alarm protocol in Scandinavia,  
and it is also used in our own alarm receiver equipment.

Check that the alarm-receiving operator has a receiver fitted for P100/CPC protocol,  
voice call, if you plan to use this protocol.

### *Mic/loudspeaker unit:*

The unit has an automatic test that checks the function in the microphone/loudspeaker unit when  
the unit is connected to power and is thereafter made every 24-hours.

It is now easy to check if the remote-part is correctly connected:

When power is connected the test is done, the LED-diode "line" will after a few seconds indicate  
with 5 green blinks if the remote unit is correctly connected or with 5 red blinks if connected  
incorrectly.

### **The LED placed between the microphone and speaker indicates:**

When blinking 1sec on 5sec off: mic/ loudspeaker is working.

If solid red light: a call is connected (line is busy).

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## Hints:

**When the alarm signal switch is activated** the telephone will call up according to the chosen delay time.

To do so, there must be a telephone number programmed and a telephone line connected.

When the telephone starts calling, the alarm signal bell ceases and the connection sound is clearly heard in the speaker unit.

Adjust the volume with the volume control in the Main unit.

**The first two telephone numbers** (primary and secondary) are pre-programmed for P100. There must be an 8-figure alarm code programmed to make the P100/CPC alarm work. The last two telephone numbers (third and forth) are programmed for vocal connection. Vocal connection means a standard telephone call.

The receiving party does not have to do anything to get a vocal connection it is automatically done.

**To disconnect a vocal connection** the receiving party should press "9" or "#" otherwise the line will be busy about 90 seconds after completion of the call.

**To call the lift telephone** just call the connecting telephone number. The telephone will after 2 signals automatically connect the call.

Disconnect after completion of the call by pressing "9" or "#".

**To call the lift telephone, if they are connected in series**

The telephones must be programmed with different unit numbers (see programming). When calling to the lift telephone it will answer after 2 signals, chose the unit number that corresponds to the telephone you want to call.

Ex: You want to talk to unit number 3.

Call the telephone number and, when the telephone answers, press "3" repeatedly on your dialtone telephone or mobile telephone, until you hear 2 distinctive calling tones the call is then connected to the right telephone.

Disconnect after completion of the call by pressing "9" or "#".

**One of the 4 programmed telephone numbers could be to a beeper.**

The telephone can be programmed to leave a digital code to the beeper.

To make it work the alarm type must be changed to "MINICALL".

**If it does not work, check:**

Is there a connection? -The diode lamp "LINE" should not be red.

Is there power? -The diode lamp "POWER" should glow/blink red or green.

Is remote unit connected right? - Check the connection (Note the crossed connections!).

If you connect it via modular plugs - Check that incoming line is connected on the 2 inner pins.

Is there any telephone number programmed? - Check with the hand unit.

Is there any alarm code programmed? - Check with the hand unit.

Is it calling the right number? - Check by calling on a regular phone.

Has the alarm-receiving operator the right equipment? - Check with the operator.

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# Programming:

To program the telephone a programming unit HT99-H is needed.  
It is also possible to program the telephone by using a dialtone telephone.

## **Programming with Safeline Hand Unit**

It is possible to register all alarm codes and telephone numbers before programming the telephone. The hand unit is battery powered and saves all codes and numbers in the memory, even if the power is turned off or the battery is changed.

**Turn on the power on the hand unit than follow the steps below.**

<b>Step by step...</b>	<b>The display shows:</b>	<b>Explanation:</b>	<b>Next to do:</b>	<b>Tip:</b>
Turn on the power	Handunit for <b>Safeline 1000/2000</b> ----- Version 1.15	After 3 seconds Comes the next text		
Step 2:	<b>ALARM CODE 1 =</b> #=NEXT D=HELP	Write the 8-digits P100 alarm-code given to you by your alarm-receiving operator. This is the "Primary code" This code to be used for lift alarm.	Press "#" to go to next text	
Step 3:	<b>ALARM CODE 2 =</b> #=NEXT D=HELP	Write the second 8-digits P100 alarm-code given to you by your alarm-receiving operator. This is the "Secondary code" This code to be used for battery alarm.	Press "#" to go to next text	If you anytime between all steps press "C" you will continue directly to Step15.
Step 4:	<b>TEL.NUMBER 1 =</b> #=NEXT D=HELP	Write the 1:st telephone number you want to call in case of emergency alarm.	Press "#" to go to next text	All telephone numbers can be 16 digits long. A "*" means 1 second pause. That can be useful when calling through a switchboard.
Step 5:	<b>TEL.NUMBER 2 =</b> #=NEXT D=HELP	Write the 2:nd telephone number you want to call in case of emergency alarm.	Press "#" to go to next text	Telephone number 1 and 2 are normally P100-numbers. To change Alarm type press "B".
Step 6:	<b>TEL.NUMBER 3 =</b> #=NEXT D=HELP	Write the 3:rd telephone number you want to call in case of emergency alarm.	Press "#" to go to next text	Telephone number 3 and 4 are normally voice connection. To change Alarm type press "B".
Step 7:	<b>TEL.NUMBER 4 =</b> #=NEXT D=HELP	Write the 4:th telephone number you want to call in case of emergency alarm.	Press "#" to go to next text	Telephone number 3 and 4 are normally voice connection. To change Alarm type press "B".
Step 8:	<b>TEL.CODE TO MINICALL</b> #=NEXT D=HELP	Write the code that is to be sent to a beeper.	Press "#" to go to next text	This code will show on the beeper's display.
Step 9:	<b>TESTALARM/STATUS TEL. NUMBER.</b> #=NEXT D=HELP	Write the telephone number that will receive test alarm and status report.	Press "#" to go to next text	If no telephone number is given, there will be no test alarm sent
Step 10:	<b>DAYS BETWEEN TEST ALARM</b> #=NEXT D=HELP	Write amount of days between test alarms. It could be 1-99 days.	Press "#" to go to next text	If the value is set to "0" no test alarm will be sent
Step 10B:	<b>CALTONES BEFORE ANSWER</b> #=NEXT D=HELP	Write number of calltones before telephone answers 00-16 is accepted by telephone, 2 digits must always be written.	Press "#" to go to next text	If it is set to "00" The telephone will never answer.
Step 11:	<b>SUPERV. ALARM TEL. NUMBER.</b> #=NEXT D=HELP	Write the telephone number that will receive the supervision alarm	Press "#" to go to next text	Breakdown alarm can only be sent if there is a special Breakdown alarm card mounted in the unit *
Step 12:	<b>BATTERY ALARM TEL. NUMBER.</b> #=NEXT D=HELP	Write the telephone number that will receive the battery alarm. The battery condition is check once per week. It is done by discharging the battery and measures the battery voltage.	Press "#" to go to next text	The battery alarm sends the secondary alarm-code as identifier.
Step 13:	<b>SET/CHANGE PASSWORD</b> #=NEXT D=HELP	Write the password to be used when programming/configuring from an external telephone or with our PC-software *	Press "#" to go to next text	A maximum of 9 telephones can be coupled on the same line with "cascade connections".
Step 14:	<b>SET/CHANGE UNIT ADDRESS</b> #=NEXT D=HELP	Write the address to the telephone in question, if you connect more than one telephone on the same line.	Press "#" to go to next text	A maximum of 9 telephones can be coupled on the same line with "cascade connections".
Step 15:	<b>SEND ALL CHANGES TO SAFELINE ?</b> A=YES B=NO	Press "A" to send all changes to the telephone. Press "B" to save everything in the hand unit.		The cable should be connected to the telephone when the changes are sent.
Step 16:	<-----> <b>FINISHED ! POWER OFF AND DISCONNECT CABLE</b>	Turn off the power and disconnect the cable.		After about 8 seconds the text will start from Step1.

## **Example on how to simplify the programming:**

On recurrence programming only the alarm-codes need to be changed.

If battery alarm is not used, only alarm-code 1 is needed.

<b>Step by step...</b>	<b>The display shows:</b>	<b>Explanation:</b>	<b>Next to do:</b>	<b>Tip:</b>
Turn on the power	<b>Handunit for Safeline 1000/2000 ----- Version 1.15</b>	After about 3 seconds the next text will show.		
Step 2:	<b>ALARM CODE 1 = #=NEXT D=HELP</b>	Write the 8-digits P100 alarm-code given to you by your alarm-receiving operator. This is the "Primary code". This code to be used for lift alarm.	Press "#" to go to next text	
Step 3:	<b>ALARM CODE 2 = #=NEXT D=HELP</b>	Write the second 8-digits P100 alarm-code given to you by your alarm-receiving operator. This is the "Secondary code". This code to be used for battery alarm.	Press "C" to finish the programming.	The cable need to be connected only when the changes are sent.
Step 15:	<b>SEND ALL CHANGES TO SAFELINE ? A=YES B=NO</b>	Press "A" to send all changes to the telephone.		The cable need to be connected only when the changes are sent.
Step 16:	<b>&lt;-----&gt; FINISHED ! POWER OFF AND DISCONNECT CABLE</b>	Turn off the power and disconnect the cable.		After about 8 seconds the text will start from Step 1.

## **To set the internal memory to zero**

<b>Step by step...</b>	<b>The display shows:</b>	<b>Explanation:</b>	<b>Next to do:</b>	<b>Tip:</b>
Turn on the power	<b>Handunit for Safeline 1000/2000 ----- Version 1.15</b>	Press "D" within 3 seconds.		
The display will automatically show	<b>Initialising</b>	The internal memory is set to zero.	This will automatically take you to Step 2.	

## **To read all codes and telephone number from an existing telephone:**

<b>Step by step...</b>	<b>The display shows:</b>	<b>Explanation:</b>	<b>Next to do:</b>	<b>Tip:</b>
Turn on the power	<b>Handunit for Safeline 1000/2000 ----- Version 1.15</b>	Press "C" within 3 seconds.		The cable has to be connected to read the telephone.
The display will automatically show	<b>***** Reading from Safeline *****</b>	All codes and telephone number are read from the telephone	This will automatically take you to Step 2	Now you can go through and check/change all codes and telephone numbers.

## **To change alarm types: Follow the programming to Step 4**

<b>Step by step...</b>	<b>The display shows:</b>	<b>Explanation:</b>	<b>Next to do:</b>	<b>Tip:</b>
Step 4:	<b>TEL.NUMBER 1 = #=NEXT D=HELP</b>	Press "B" to change alarm type. P100 -- to call alarm receiver operator. VOICE -- to call a standard telephone. MINICALL -- to call to leave a code to a beeper.	Press "#" to go to next text	
Step 5 - 7:		Repeat all as above.	Press "#" to go to next text	Press "#" to read out active alarm type, press "#" again to change alarm type. To save press "#".

## Safeline 2000-Light:

### Programming from a dialtone telephone:

It is possible to program the telephone by calling to it. By using different dialtone commands it is possible to program all codes and telephone numbers to the telephone.

#### **This is how to do it:**

##### **If only one telephone is connected to the line:**

- 1: Call the lift telephone. It will answer with 3 tones after 2 signals  
(this is standard but can be changed to 0-16 signals)

##### **If more then one telephone are connected to the line:**

- 1: Call the alarm telephone. After 2 signals the telephone will answer  
(always 2 signals when more than one connected lift telephone)  
To get to e.g. telephone number 3, press "3" repeatedly until 3 distinctly signals are heard and the connection is made.
- 2: Dial "**00**", the lift telephone will answer with "OK" (2 short signals) or "Wrong" (1 long signal).
- 3: Dial the password - \* XXXX # where XXXX stands for the password. The default password is "**0000**".  
The lift telephone answers with "OK" (2 short signals) or "Wrong" (1 long signal).
- 4: Change codes and/or telephone numbers according to the below table.  
There is a time span of 5 seconds between the digits, after that time there will be a "Wrong" signal and the registration has to start all over again.  
After 30 seconds without activity the lift telephone will disconnect the call.
- 5: After a successful registering the code/telephone number will be saved.  
If there is a "Wrong" signal or if the call is disconnected, all successful registering are saved.
- 6: Always discontinue the call: **\*00\*#**

#### **Codes:**

Function in alarm telephone:	Code	Write telephone number/code before start	Note:
P100 Primary number	*01*	#	Always 8 digits
P100 Secondary number	*02*	#	Always 8 digits
Primary number	*11*	#	0-16 digits
Secondary number	*12*	#	0-16 digits
Third number	*13*	#	0-16 digits
Forth number	*14*	#	0-16 digits
Battery alarm number	*15*	#	0-16 digits
Breakdown alarm number	*16*	#	0-16 digits
Test alarm number	*17*	#	0-16 digits
Alarm type Primary number	*21*	#	0=P100, 1=Voice, 2=Beeper 3=CPC
Alarm type Secondary number	*22*	#	-"-
Alarm type Third number	*23*	#	-"-
Alarm type Forth number	*24*	#	-"-
Code to beeper	*25*	#	0-16 digits
Days between test alarm	*27*	#	00-99 accepted
Number of ring signals	*81*	#	01-16 accepted
Unit number	*82*	#	0-9 accepted
Dialtone detection ON	*83*1#	Dialtone detection is on (normal)	1=ON
Dialtone detection OFF	*83*0#	Turn off the dialtone detection. This is only needed if the telephone is having problem detecting the dialtone. (Some non-Scandinavian PSTN provider)	0=OFF
Password	*91*	#	Always 4 digits
Discontinue the programming	*00*	*00*#	No digits after the code

## **Example on common alarm telephone settings**

To register a P100 code.	<b>11335588</b>
Primary number to custodian (voice call).	<b>046-443322</b>
Secondary number to alarm alarm-receiving operator.	<b>031-223344</b>

### **If only one telephone is connected to the line:**

- 1: Call the alarm telephone. It will answer after 3 distinctive tones after 2 ring signals (can be changed to 0-16 signals).

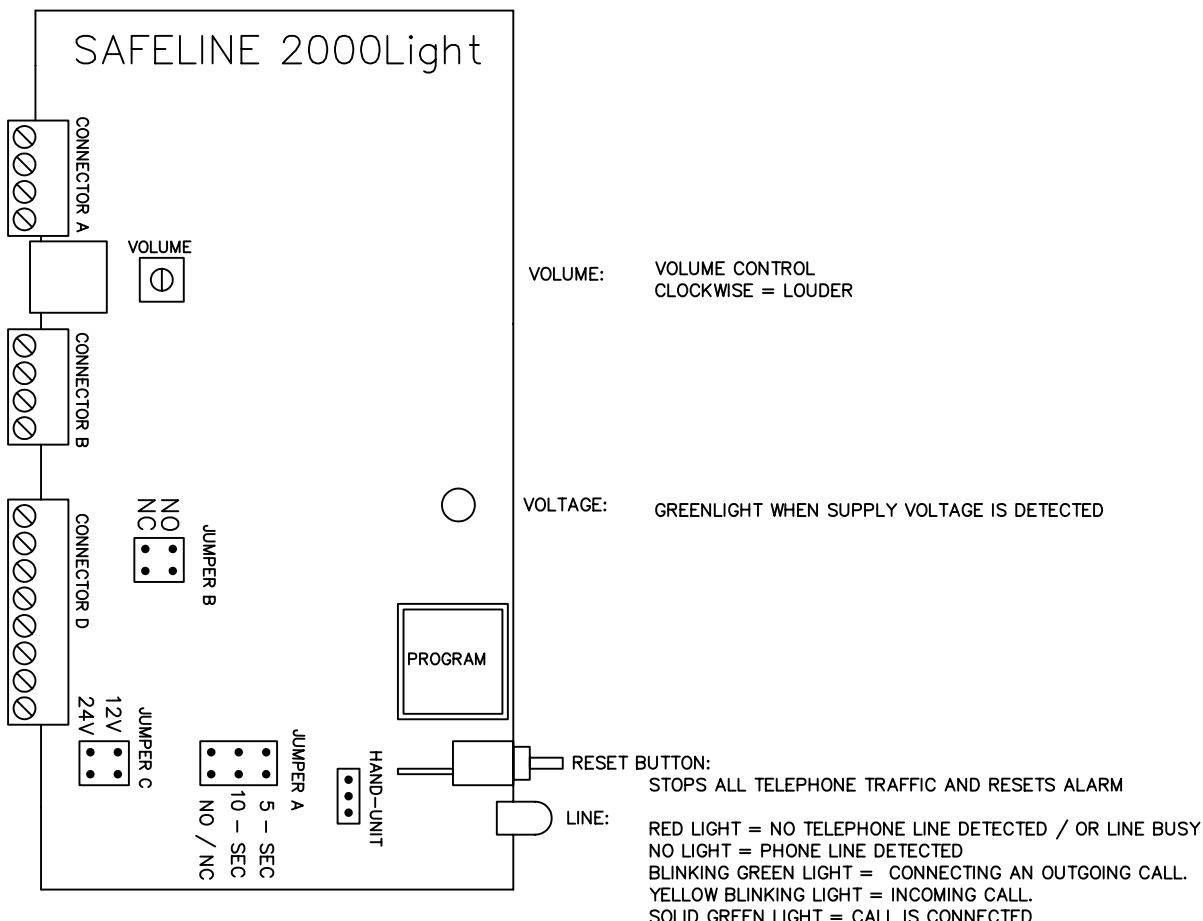
### **If more than one telephone is connected to the line:**

- 1: Call the lift telephone. After 2 signals the telephone will answer (always 2 signals when more than one connected alarm telephone).  
To get to i.e. telephone number 3, repeatedly press "3" until 3 distinctly signals are heard and the connection is made.
- 2: Dial "**00**", the lift telephone will answer with "OK" (2 short signals) or "Wrong" (1 long signal).
- 3: Dial the password - \* **XXXX** # where X stands for the password. The default password is "**0000**".  
The lift telephone answers with "OK" (2 short signals) or "Wrong" (1 long signal).  
The lift telephone answers with "OK".
- 4: Dial \***01\*11335588#** to register the P-100 code. The lift telephone answers with "OK".
- 5: Dial \***11\*046443322#** to register the Primary number. The lift telephone answers with "OK".
- 6: Dial \***12\*031223344#** to register the Secondary number. The lift telephone answers with "OK".
- 7: Dial \***21\*1#** to change the alarm type on the primary number to "Voice". The lift telephone answers with "OK".
- 7: Dial \***00\*#** to discontinue programming. The lift telephone answers with "OK".

The telephone is now ready to be used with its new settings.

1 | 2 | 3 | 4 | 5 | 6 | 7

# A CONNECTIONS SAFELINE 2000Light



JUMPER C: 12V SELCS 12V SUPPLY VOLTAGE  
24V SELCTS 24V SUPPLY VOLTAGE

JUMPER A:

NO / NC : SELECTS POLARITY FOR EMERGENCY BUTTON

NO = NORMALLY OPEN BUTTON

NC = NORMALLY CLOSED

5-SEC: CONNECT JUMPER FOR 5 SECONDS DELAY BEFORE CONNECTING A CALL  
10-SE: CONNECT JUMPER FOR 10 SECONDS DELAY.  
CONNECT BOTH JUMPER 5 SEC AND JUMPER 10 SEC FOR 15 SEC DELAY.  
NO JUMPER CONNECTED = 2 SEC DELAY TIME.

JUMPER B: NO: SELECT POLARITY FOR EXTERNAL RELAY NO = NORMALLY OPEN  
NC: SELECT POLARITY FOR EXTERNAL RELAY NC =NORMALLY CLOSED.

NOTE! To disconnect the unit compleatly from voltage: Disconnect both battery and supply voltage.

SAFELINE 2000-B ÆVERSIKT  HISSELEKTRONIK AB	ARBETSNR	RITNINGSNR	
	HANDEGGES AV	RITAD AV	BLAD
	LG	LG/MK	8
	DATUM	REV.	FORTS.BL
	04.08.18	1.0	-

1 2 3 4 5 6 7

## A CONNECTIONS SAFELINE 2000 Light

B

C

D

E

F

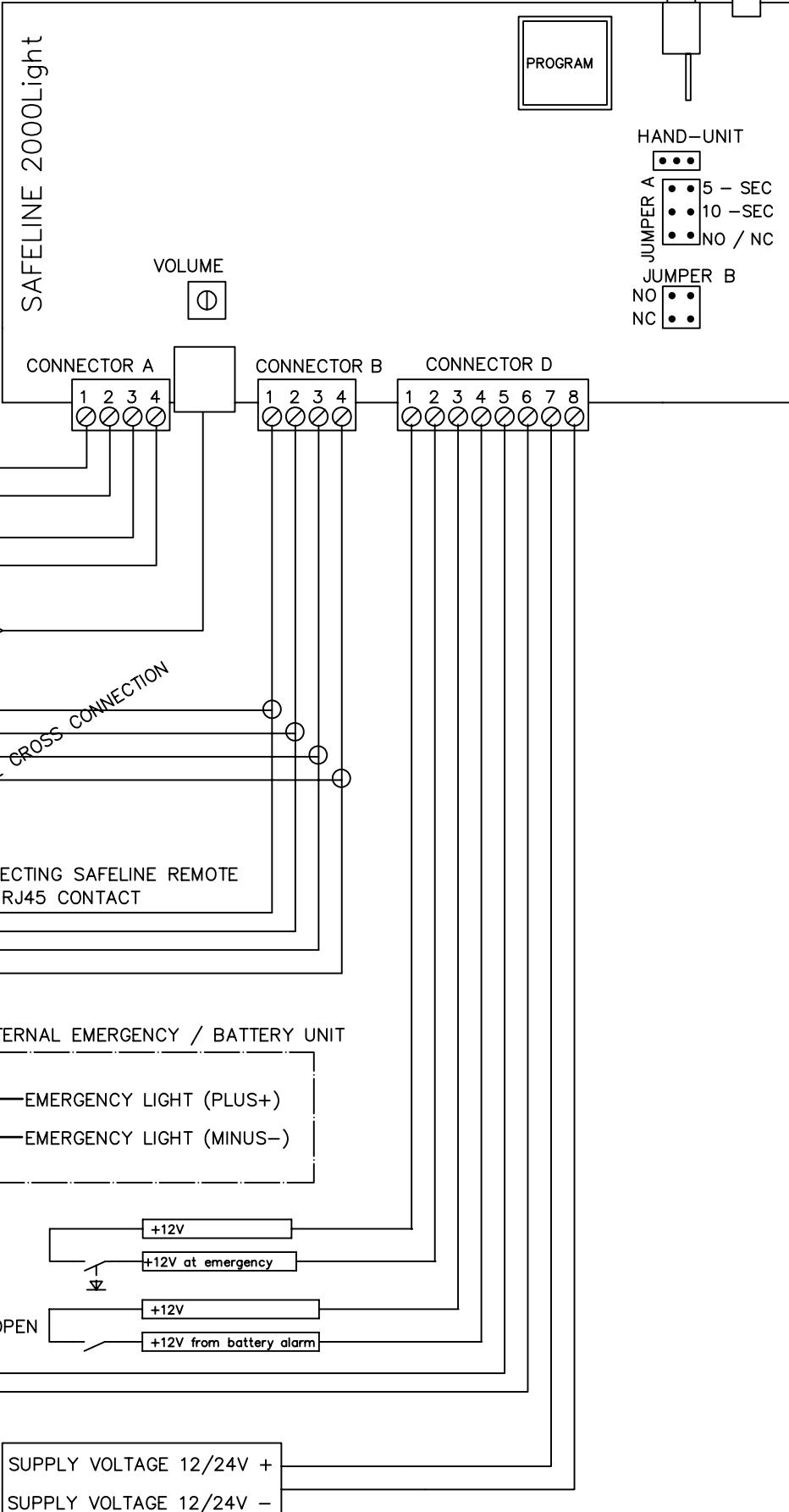
G

H

I

J

K



SAFELINE 2000 Light INKOPPLING  
HISSELEKTRONIK AB

ARBETSNR	RITNINGSNR	
HANDELIGES AV	RITAD AV	BLAD
LG	LG/MK	7
DATUM	REV.	FORTS.BL
04.08.17	1.1	