Hisselektronik AB

Safeline 1000-P
Programming manual April2005

Assembly instructions

Complete telephone assembly within the elevator car.
Requires a space of only 70X130mm for installation.

The alarm signal button can be changed between normally-open/normally-closed.
It is possible to use the existing alarmbutton.

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

Hints:

When the alarm signal switch is activated the telephone will call up after 5 seconds of delay time.
To do so, there must be a telephone number programmed and a telephone line connected.

When the telephone starts calling, the connection sound is clearly heard from the speaker.
Adjust the volume if needed with the volume control.

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 or 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 the telephone will answer after 2 signals, chose the unit number that corresponds with 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 –witch indicates that the call is 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.

Safeline 1000

Testing the relay function.

To test the relay function, call the phone and press "9". The relay should activate for 3 seconds.

Connections:

DC power supply 1=GND
 2=+12-24VDC

1=Activation button

2= Activation button

3=Line out

4=Line out

5=Line in

6=Line in

1=NC

2=C

3=NO
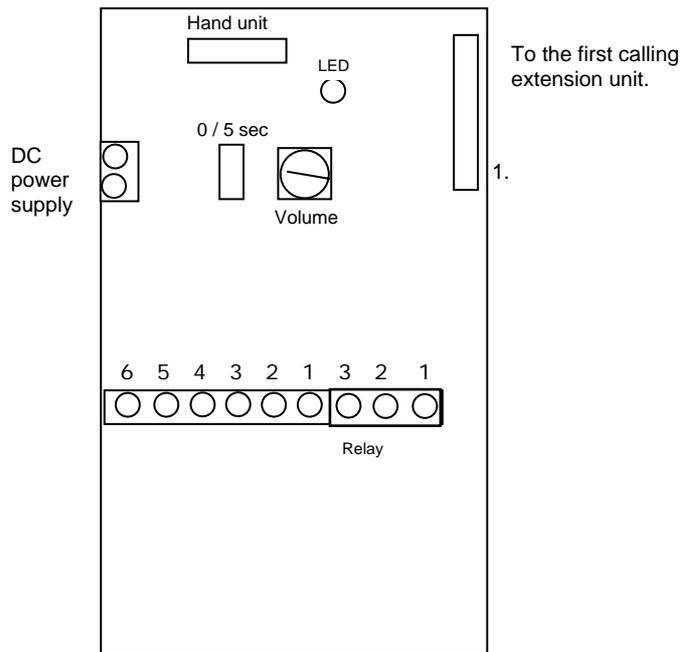
On jumper "0 / 5 sec", a delay of the activation button can be set between 0 (closing) and 5 seconds (open).

The volume from the speaker can be adjusted vith the volume control. The adjustment is made clockwise for lower volume.

The connector marked "Hand unit"is where the programming unit shuld be connected.

The LED shows following indications:

Short blinks = Normal indication
Long blinks = Connecting
Steady light = Disconnecting

Safeline 1000

To program the telephone, a programming unit HT99-H is needed.
It is also possible to program the telephone by using a dialtone telephone,
or with our Window-based PC software*

Programming with Safeline Hand Unit HT99-H

It is possible to register all alarm codes and telephone numbers long 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 handunit than follow the steps below.

Step by step…	The display shows:	Explanation:	Next to do:	Tip:
Turn on the power	**Handunit for Safeline 1000/2000** ----------------- **Version 1.14**	After 3 seconds Comes the next text		
Step 2:	_ **ALARM CODE 1 =** **#=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 is to be used for lift alarm.	Press "#" to go to next text	
Step 3:	_ **ALARM CODE 2 =** **#=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 is 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 Step 15.
Step 4:	_ **TEL.NUMBER 1 =** **#=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:	_ **TEL.NUMBER 2 =** **#=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:	_ **TEL.NUMBER 3 =** **#=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:	_ **TEL.NUMBER 4 =** **#=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:	_ **TEL.CODE TO MINICALL** **#=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:	_ **TEST ALARM/STATUS TEL. NUMBER.** **#=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:	_ **DAYS BETWEEN TEST ALARM** **#=NEXT D=HELP**	Write number 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:	**CALLTONES BEFORE ANSWER** **#=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:	_ **SUPERV. ALARM TEL. NUMBER.** **#=NEXT D=HELP**	Write the telephone number that will receive the supervision alarm (only for Safeline 2000)	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:	_ **BATTERY ALARM TEL. NUMBER.** **#=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. (only for Safeline 2000)	Press "#" to go to next text	The battery alarm sends the secondary alarm-code as identifier.
Step 13:	_ **SET/CHANGE PASSWORD** **#=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:	_ **SET/CHANGE UNIT ADDRESS** **#=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:	**SEND ALL CHANGES TO SAFELINE ?** **A=YES B=NO**	Press "A" to send all changes to the telephone. Press "B" to save everything in the hand unit.		The cable must be connected to the telephone when the changes are sent.
Step 16:	**<--------------------------->** **FINISHED !** **POWER OFF AND DISCONNECT CABLE**	Turn off the power and disconnect the cable		After about 8 seconds the text will start from Step 1

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.

Step by step…	The display shows:	Explanation:	Next to do:	Tip:
Turn on the power	**Handunit for** **Safeline 1000/2000** **-----------------** **Version 1.14**	After about 3 seconds the next text will show.		
Step 2:	_ **ALARM CODE 1 =** **#=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:	_ **ALARM CODE 2 =** **#=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 "C" to finish the programming.	The cable need to be connected only when the changes are sent.
Step 15:	**SEND ALL** **CHANGES TO** **SAFELINE ?** **A=YES B=NO**	Press "A" to send all changes to the telephone.		The cable need to be connected only when the changes are sent.
Step 16:	**<------------------------->** **FINISHED !** **POWER OFF AND** **DISCONNECT CABLE**	Turn off the power and disconnect the cable.		After about 8 seconds the text will start from Step1.

To set the internal memory to zero

Step by step…	The display shows:	Explanation:	Next to do:	Tip:
Turn on the power	**Handunit for** **Safeline 1000/2000** **-----------------** **Version 1.14**	Press "D" within 3 seconds.		
The display will automatically show	**Initialising**	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:

Step by step…	The display shows:	Explanation:	Next to do:	Tip:
Turn on the power	**Handunit for** **Safeline 1000/2000** **-----------------** **Version 1.14**	Press "C" within 3 seconds.		The cable has to be connected to read the telephone.
The display will automatically show	******************* **Reading from** **Safeline** *******************	All codes and telephone number are read from the telephone.	This will automatically take you to Step2.	Now you can go through and check/change all codes and telephone numbers.

To change alarm types: Follow the programming to Step 4

Step by step…	The display shows:	Explanation:	Next to do:	Tip:
Step 4:	_ **TEL.NUMBER 1 =** **#=NEXT D=HELP**	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 1000
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 detektion ON	***83*1#**	**Dialtone detection is on (normal)**	**1=ON**
Dialtone detektion 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**

Safeline 1000

Example on common alarm telephone settings

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

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 alarm telephone is connected).
   To get to i.e. 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 X stands for the password. The default password is "**0000**". The lift telephone answers with "OK" (2 short signals) or "Wrong" (1 long signal).

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.

Lasse Gustafsson
Hisselektronik AB

Hisselektronik AB
Antennvägen 10
13548 TYRESÖ
Sweden
Tel. +468-4477932
Fax. +468-4477931

CONNECTIONS SAFELINE 1000

HANDENHET

LED

+12V
-12V

NC/NO   VOLUME

6 5 4 3 2 1
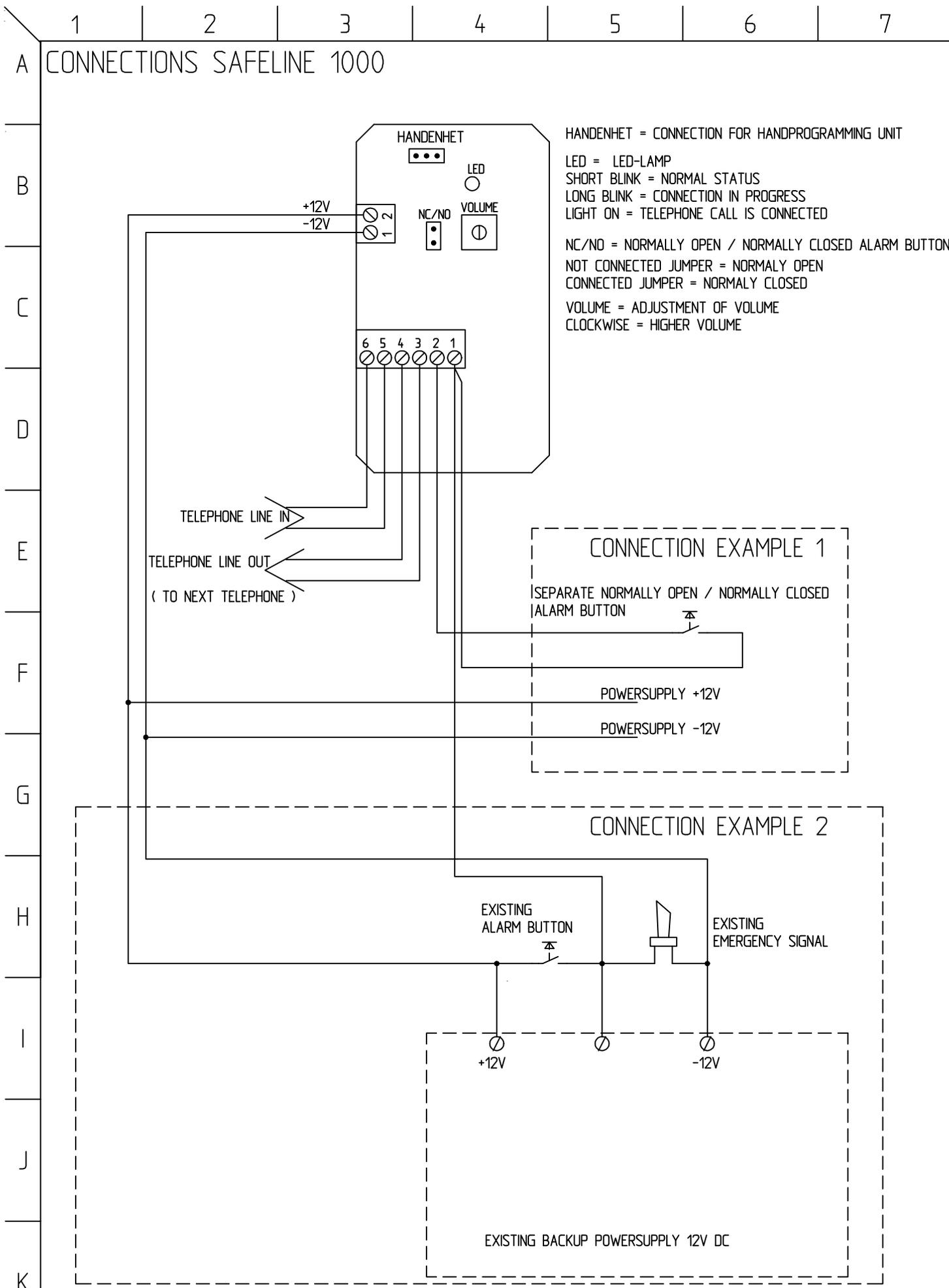
HANDENHET = CONNECTION FOR HANDPROGRAMMING UNIT

LED = LED-LAMP
SHORT BLINK = NORMAL STATUS
LONG BLINK = CONNECTION IN PROGRESS
LIGHT ON = TELEPHONE CALL IS CONNECTED

NC/NO = NORMALLY OPEN / NORMALLY CLOSED ALARM BUTTON
NOT CONNECTED JUMPER = NORMALY OPEN
CONNECTED JUMPER = NORMALY CLOSED

VOLUME = ADJUSTMENT OF VOLUME
CLOCKWISE = HIGHER VOLUME

TELEPHONE LINE IN

TELEPHONE LINE OUT
(TO NEXT TELEPHONE)

CONNECTION EXAMPLE 1

SEPARATE NORMALLY OPEN / NORMALLY CLOSED
ALARM BUTTON

POWERSUPPLY +12V

POWERSUPPLY -12V

CONNECTION EXAMPLE 2

EXISTING
ALARM BUTTON

EXISTING
EMERGENCY SIGNAL

+12V   -12V

EXISTING BACKUP POWERSUPPLY 12V DC
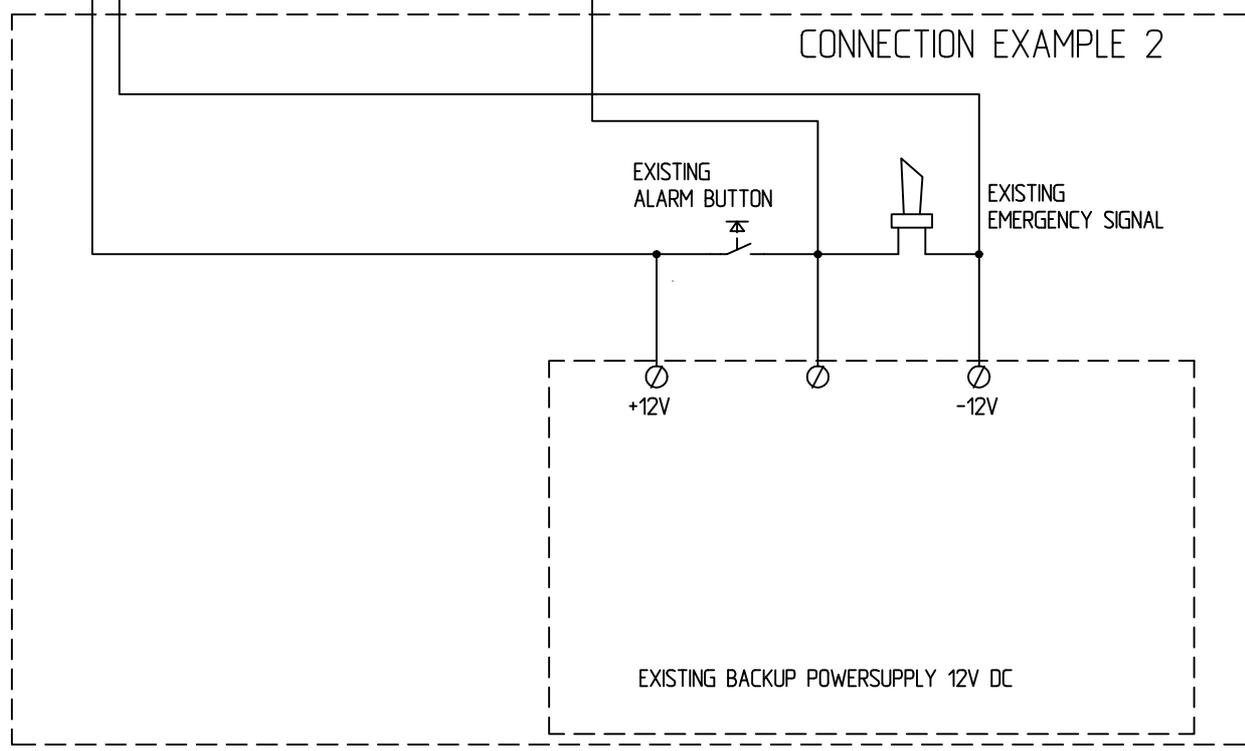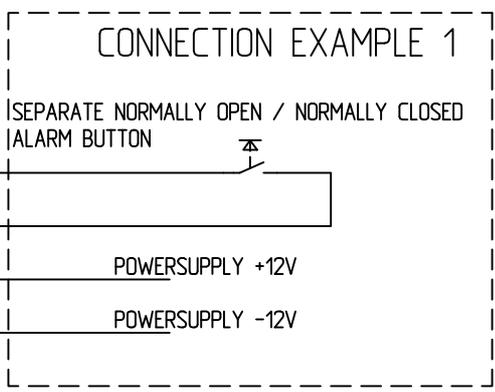
SAFELINE 1000 INKOPPLING	ARBETSNUMMER	RITNINGSNUMMER	
	HANDLÄGGES AV	RITAD AV	BLAD
HISSELEKTRONIK AB	LP	LP	01
	DATUM	REV.	FORTS.BL
	99.08.05	1.0	-