


LEITRONIC AG


Swiss Security Systems


EasyAlarm ELEVATOR




Start-up




Program calling numbers  5.1				Write down numbers		
OFF <input type="checkbox"/> ON PROG	**1	Announcement	*			OFF <input type="checkbox"/> ON PROG
OFF <input type="checkbox"/> ON PROG	**2	Announcement	*			OFF <input type="checkbox"/> ON PROG
OFF <input type="checkbox"/> ON PROG	**3	Announcement	*			OFF <input type="checkbox"/> ON PROG
OFF <input type="checkbox"/> ON PROG	**4	Announcement	*			OFF <input type="checkbox"/> ON PROG
OFF <input type="checkbox"/> ON PROG	**5	Announcement	*			OFF <input type="checkbox"/> ON PROG
OFF <input type="checkbox"/> ON PROG	**6	Announcement	*			OFF <input type="checkbox"/> ON PROG
OFF <input type="checkbox"/> ON PROG	**7	Announcement	*			OFF <input type="checkbox"/> ON PROG
OFF <input type="checkbox"/> ON PROG	**8	Announcement	*			OFF <input type="checkbox"/> ON PROG



Calling number sequence  5.2.2				Write down sequence		
OFF <input type="checkbox"/> ON PROG	**0	Announcement	*			OFF <input type="checkbox"/> ON PROG



Program routine number  6.5.5 / 6.5.4				Write down number		
OFF <input type="checkbox"/> ON PROG	**9	Announcement	*			OFF <input type="checkbox"/> ON PROG

Record individual announcement  5.4				Write down text		
OFF <input type="checkbox"/> ON PROG	**#	Indiv. Announcement	*		Indiv. Announcement	OFF <input type="checkbox"/> ON PROG

PIN-Code  5.5		Identification (4 to 7 digits)			
OFF <input type="checkbox"/> ON PROG	#		#	re-enter PIN-Code	OFF <input type="checkbox"/> ON PROG

Operation  6			
OFF <input type="checkbox"/> ON PROG	<div>Battery error</div> <div>Check phone line</div> <div>Power failure</div>	<div>Emerg. Call activated  9.12</div> <div>(Operation)-supervision 1/2/3 activated  4.8</div>	

Test calling numbers 1-9  6.8			
Press key 1-9	Selected number will be	Check hands-free connection quality  3.2	Disconnect: called party must press 0

Check wiring  4.6			
OFF <input type="checkbox"/> ON PROG	****	1/2/3 activated / desactivated  4.6	OFF <input type="checkbox"/> ON PROG

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1. SAFETY INSTRUCTIONS

1.1 Telephone connection

- EasyAlarm® is designed to connect to an analogue telephone line. This network must remain in service for at least one hour after a mains power loss according to EN81-28.

These are:

- analogue PSTN (with EA-8-DPXN in combined use with downstream existing subscriber as modem/fax).
- analogue port of an ISDN terminal:
 - ISDN-NT has to be reprogrammed for emergency operation at the ab-port.
 - One line must be available at any time.
- Mobile interface / Gateway with approval, i.e. from Leitronic ↗ 10.7.1.
- analogue port of a private exchange using UPS (Interruptible power supply 1h buffering).
- DECT-Interface ↗ 10.7.2.



Multiple EasyAlarm® sharing one line:

- Ensure that the first alarm number is always available, because if multiple alarms triggered at the same time it is possible that only first number can be reached.
- A maximum of three units can share one line.
 - In case of star cable routing (max. 15 Ω difference per connection = Calc 2 x conductor resistance!) up to 4 diallers can be connected. Example: AWG 24 (U72) = 2 x 90 Ω / km => difference in length max. 15 Ω / (2 x 90 Ω / km) = 0.083km.
- In case of a two-step-dialling-in ↗ 6.9.2 the number of diallers is doubled.

Not suitable:

- VoIP (VoiceoverInternetProtocol), cable-TV-modem or NGN (NextGenerationNetwork), as in case of a power loss even with local backup **the network (Amplifiers, Fiber network etc.) cannot guarantee EN81-28.**
- If a "fail-safe" connection is guaranteed, ensure that DTMF-transmission will be real-time ↗ i.e. configure "DTMF inband" on the ATA (AnalogTelephoneAdapter).

The voltage of the telephone network is defined in EN 41003. It is higher than 40 V and therefore please beware for electrical hazard and disconnect the phone line whenever working on connections.

The telephone line can be protected with a lightning protection interface ↗ 10.11.

1.2 Power supply

A transformer according to the safety regulation EN60950 provides power supply. 9V battery is used as a back up in case of power failure. It is located on the rear side of the device.

In case of a mains power loss in combination with a low battery, EasyAlarm® can still make a call to one destination powered over the telephone line.

If a relay is used to start emergency call, beware that this relay is powered for at least 1 hour after a mains loss.

1.3 Safety notes

- All the electrical connections have to be potential free; therefore no ground connection between elevator control-unit nor the power supply is permitted. Observe the regulation according to EN60950.
- If you hear **Battery failure** or **beep,beep,beep** after power on, you have to replace the battery ↗ 7.4.
- Check alarm functions and start a test-call, before the system is put in service ↗ 6.8.
- Please note, an alarm by telephone is only successful if the subscriber takes care of the following points:
 - ➡ Alarm must not be answered by an answering machine or equal equipment.
 - ➡ Mobile phones can be out of coverage (e.g. underground car park, shielded rooms, remote areas and so on).
- Do not open the device (exception: opening of battery compartment).
- Do not bring the device into contact with water.
- Use only small signal switches or relay contacts for the emergency buttons. Do not use 230 V contact material, since it may not give a reliable contact.

2. SET VIEW



1 Keypad

Is used to program ↗ 5 and to control the alarm unit ↗ 6.

All the EasyAlarm®-keys are marked in black within this document: **1 2 3 4 5 6 7 8 9 * 0 #**.

In contrast the touch-tone commands initiated on the telephone to remote control the alarm unit are marked in white:

1 2 3 4 5 6 7 8 9 * 0 #.

2 Speaker

Serves to guide the user during programming or during telephone connection as a speaker.

3 Microphone

The microphone is turned on during the hands-free connection.

4 Indicator (LED)

Status of the LED's	Operation mode
Green	Waiting period ↗ 6.3
Green flashing every 4 seconds	Supervision mode (active) ↗ 6.4
Green is on and off for 4 seconds alternatively	Supervision mode (inactive) ↗ 6.4
Orange	Telephone connection ↗ 6.6

5 Selection switch

Position	Info
I	Emergency call without misuse protection / Signal S1 (Sensor-1) not monitored
II	Emergency call without misuse protection / Signal S1 (Sensor-1) as alarm: adapt alarm condition ↗ 9.11.1
III	Emergency call with misuse protection / Signal S1 (Sensor-1) used for misuse filter ↗ 9.11.2

6 Function switch

Position	Info
OFF	Device is switched off
PROG	Entering of calling numbers, calling number sequence, PIN-Code and further parameters
ON	Device is in supervision mode

7 External port (EXT) for sub-communication unit, emergency button etc.

PIN	Info	Function	Colour	Specification
1	LS+	Speaker	blue	On ⚡-potential, observe isolation
2	OUT	Switch	orange	On ⚡-potential, observe isolation
3	S2 (Sensor-2)	Emergency contact (EC)	black	On ⚡-potential, observe isolation
4	+12 V	Supply	red	On ⚡-potential, observe isolation
5	S1 (Sensor-1)	Door signal	green	On ⚡-potential, observe isolation
6	GND	GND	yellow	On ⚡-potential, observe isolation
7	S3 (Sensor-3)	Alarm contact	brown	On ⚡-potential, observe isolation
8	MIC+	Microphone	white	On ⚡-potential, observe isolation

8 Battery compartment

The 9 V-battery is used to supply power during a power failure. Change battery ↗ 7.4.

In the battery compartment is a switch to configure the type of the emergency button (NO / NC) ↗ 9.12.

9 Plug S1

PIN	Info	Function	Specification
1	S1a	Misuse-protection signal	10 to 50 V AC/DC
2	S1b	Misuse-protection signal	10 to 50 V AC/DC

10 Phone-jack (C-LINE)

PIN	Info	Function	Colour	Specification
3,4	a,b-IN	to PSTN / Gateway	red, green	On ⚡-potential, observe isolation
2,5	a/b-OUT Ⓡ	to phone/modem	black, yellow	On ⚡-potential, observe isolation

Ⓡ EA-8-DPXN, EA-8-DPXM and EA-8-DPXF only

2.1 Sub-communication unit

1 Speaker

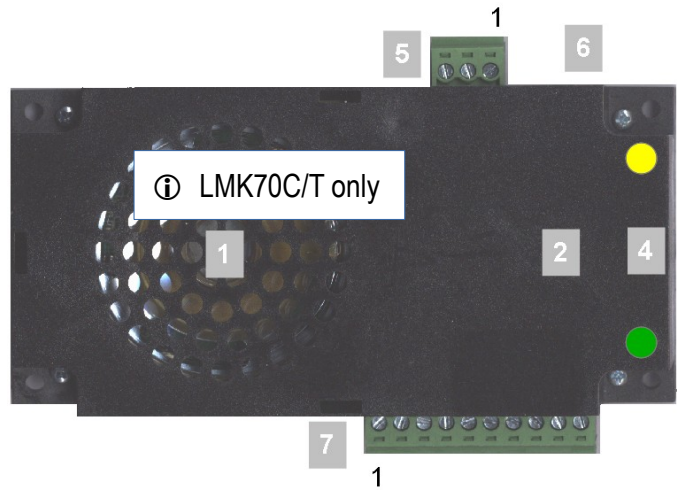
Serves to guide the user during programming or during the telephone connection as a speaker.

2 Microphone

The microphone is turned on during the hands-free connection.

3 Volume ⓘ on the back side!

To adjust volume of the internal speaker (LMK70C) or Loop-output (LMK70T).



4 LED-Indicators

With light-pipes PGN25145 to front panel	Operation mode
Yellow	Call activated
Green	Hands-free communication
EN81-28:2018 flashing alternately (since version 8.51)	No routine call during the last interval ⓘ 9.4

5 Port X2

PIN	LMK70C/T	LMC70	Specification
1	NO (normally open)	EC	On ⓘ-potential, observe isolation
2	C	EC	On ⓘ-potential, observe isolation
3	NC (normally closed)	-	On ⓘ-potential, observe isolation

PIN	LMK70T	hearing aid loop / Exicter
4,5	Loop	On ⓘ-potential, observe isolation

6 Port X7

PIN	Info	Function	Specification
1	VIN(-)	8 to 35 V DC	Supply i.e. from emergency light
2,3	VIN(+) decoupled via diodes	Max. 400 mA (12 V) Max. 220 mA (24 V)	Standby DPX, DPXF, DPXN: 70 mA (12 V) / 40 mA (24 V) Standby DPXM, DPXFM: 95 mA (12 V) / 55 mA (24 V)
5	Lamp(+)	8 to 35 V DC	for Lamp1 and Lamp2
4	Lamp1(-) ⓘ	Open-Collector-outputs (- is switching contact)	Yellow icon light (phone) indicates a telephone connection.
6	Lamp2(-) ⓘ	max. 300 mA/output 1.1A in total (fused)	Green icon light (speak) is on, when hands-free connection is established after receiving touch-tone command ⓘ.
7	ECTest(-)	Output-voltage=VIN	Open PCB-switch INT in case of using an external remote controlled emergency button. ⓘ
8	LMK-OUT(-) ⓘ Hilfe kommt		Multifunctional output: Variants of use ⓘ 9.14.2 ⓘ a) to forward alarm to building control system b) "Help is coming"-lamp
9,10	S3 (IN)	Optocoupler-input 10 to 50 V (AC/DC)	Technical Alarm: Alarm due to Sensor-3 ⓘ

7 External port (EXT) for EasyAlarm®

PIN	Info	Function	Colour	Specification
1	LS+	Speaker	blue	On ⓘ-potential, observe isolation
2	OUT	Switch	orange	On ⓘ-potential, observe isolation
3	S2 (Sensor-2)	Emergency contact (EC)	black	On ⓘ-potential, observe isolation
4	+12 V	Supply	red	On ⓘ-potential, observe isolation
5	S1 (Sensor-1)	Door signal	green	On ⓘ-potential, observe isolation
6	GND	GND	yellow	On ⓘ-potential, observe isolation
7	S3 (Sensor-3)	Alarm contact	brown	On ⓘ-potential, observe isolation
8	MIC+	Microphone	white	On ⓘ-potential, observe isolation

3. ASSEMBLY

3.1 Assembly / drilling template for EasyAlarm®

Drilling template ↗ 13

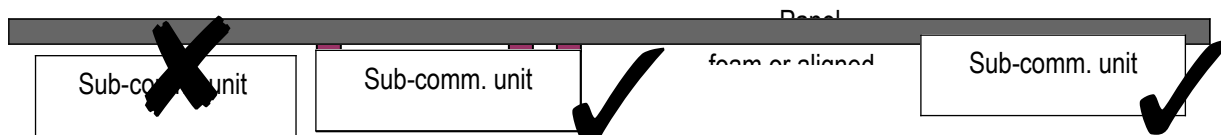
Note:

- If EasyAlarm® is mounted in a closed box (i.e. EA-IP-Box ↗ 10.10) the internal microphone must be turned off (to eliminate acoustical feedback). In this case mark dialler to pointing out that the microphone is turned off. Label unit with "microphone deactivated".

3.2 Assembly of the sub-communication unit



- Once mounted, the speaker and the microphone in particular should not be covered, otherwise the communication quality decreases (reduced volume, poor hands free quality) ↗ 8.3.
- Make sure the microphone hole and the panel hole fit.
- The sub-communication unit must be mounted directly behind the panel without any gap, otherwise there will be an acoustic feedback. If necessary insulate speaker and microphone room acoustically using foam or rubber.
- Do not use any foil between the front panel and sub-unit, not even in waterproof versions option: -WG.



3.2.1 Retrofit solutions to existing elevators

3.2.1.1 Chrome panels (flush / surface mount, Inox=steel or PC=polycarbonate)

EA-TAB (without button)

EA-TAB-NT

EA-TAB-HK("Help is coming")

EA-TABPC-NTI (comm. unit with integrated emerg. button)

if current button remains in use incl. ext. button RT-42/Typ IX incl. ext. display RA-42



Art. No: 100.0220 Inox 2mm
Art. No: 100.0210 PC 3mm
100 x 200 mm



Art. No: 100.0221 Inox 2mm
Art. No: 100.0211 PC 3mm
100 x 200 mm



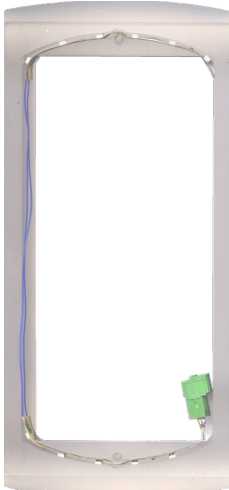
Art. No: 100.0222 Inox 2mm
Art. No: 100.0212 PC 3mm
100 x 200 mm



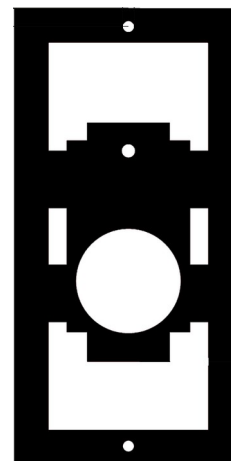
Art. No: 100.0216 PC 3mm
100 x 200 mm

3.2.1.2 Transparent frame for surface mounting of panels

Suitable for front panels 100.0220 to 100.0223 incl. two inlays on bottom / top for LED emergency light chain e.g. Art. No: 100.0870 or 100.0873 ↗ 10.6



Art. No: 100.0231
100 x 220 x 23 mm
incl. two mounting-screws



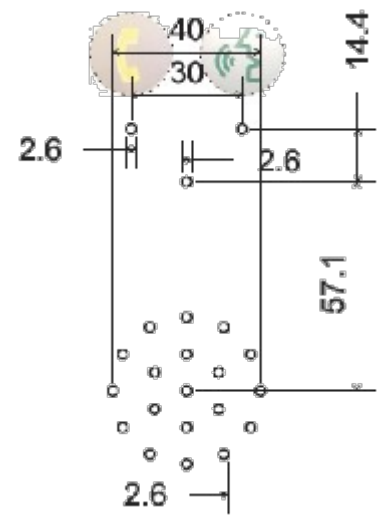
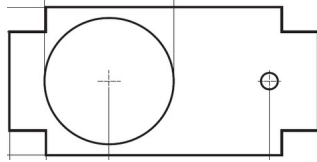
Art. No: 100.0232 Seal
100 x 200 mm (Foam 1.5mm)
for panels 100.0220 to 100.0223

3.2.1.3 Panel drilling template with SNEL-retrofit kit (Art. No: 100.0277)

Adhesive film for easy mount
sub-communication unit

EN70-Symbols to stick on
panel front

Light pipes
PGN25145



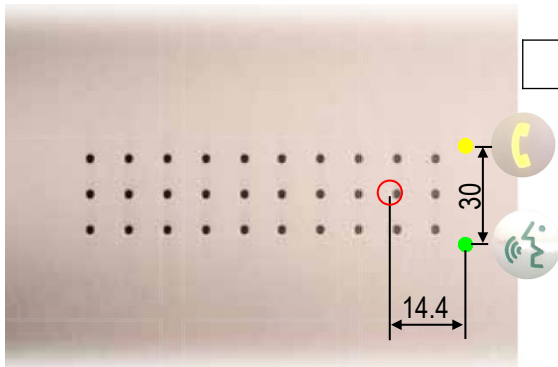
3.2.2 New installation or new panels

Drilling hole proposals from Schäfer GmbH with the appropriate order code.

In addition, two external EN81-70 indicators: e.g. Type MA42 (shepherds) or similar.
The built-in LEDs and two light pipes (Art. No: 25 145 PGN) will lead light to the front: hole diameter $\varnothing = 2.6-0.05\text{mm}$.

Option 1: "G9924"

Option 2: "G9924 LMK70-LED" with holes for light pipes and engraving

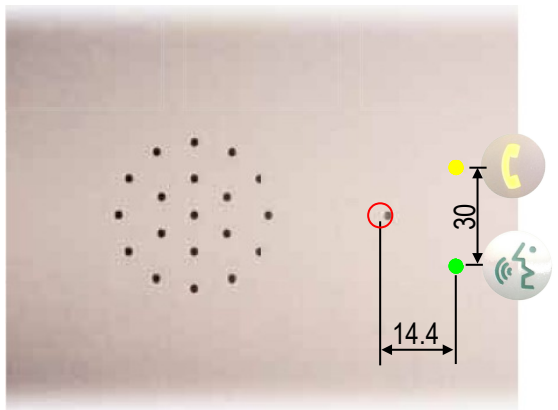


Option 2

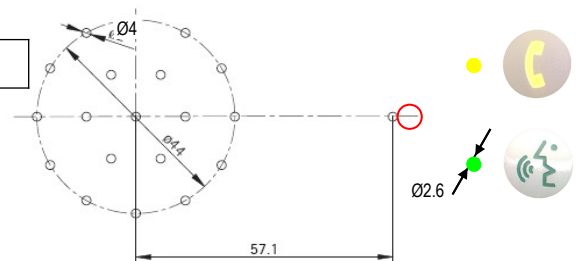


Option 1: "G9924wg" waterproof drilling pattern => use EA-LMK70C-WG to achieve IP54

Option 2: "G9924wg LMK70-LED" with holes for light pipes and engraving

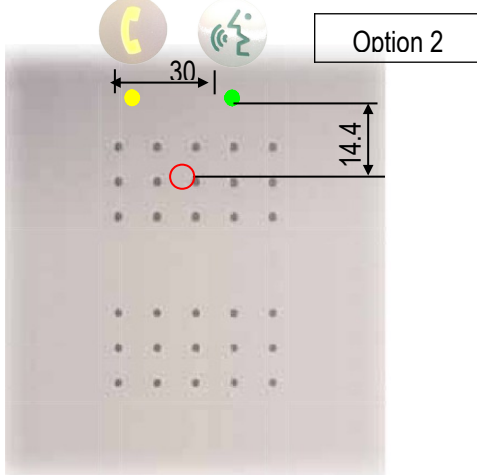


Option 2

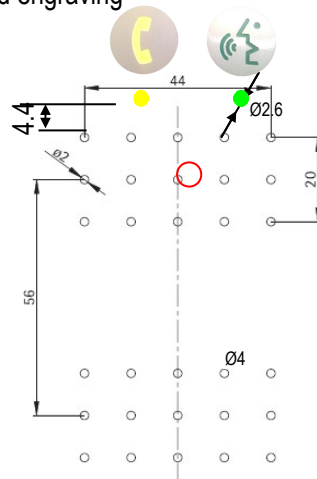


Option 1: "G4824"

Option 2: "G4824 LMK70-LED" with holes for light pipes and engraving



Option 2



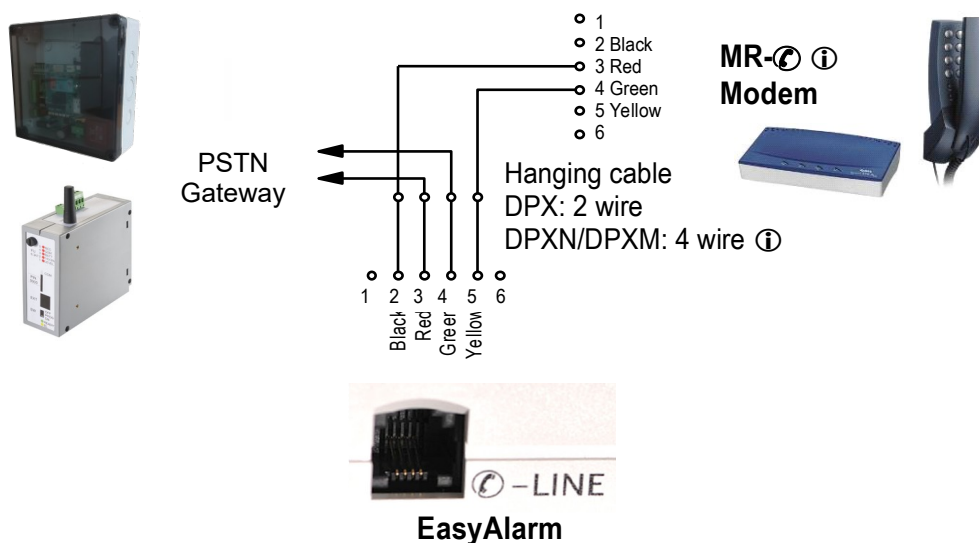
4. INSTALLATION

Place 9 V-battery or voltage converter EA-DCDC (☞ 10.3.1) inside the battery compartment on the back side of the unit.

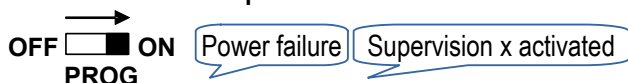
4.1 Telephone wiring

PIN	Info	Function	Colour	Specification
3,4	a,b-IN	to PSTN / Gateway	red, green	On Ⓢ-potential, observe isolation
2,5	a/b-OUT Ⓢ	to phone/modem	black, yellow	On Ⓢ-potential, observe isolation

Ⓢ EA-8-DPXN, EA-8-DPXM and EA-8-DPXFMM only



4.1.1 Check telephone line



In case of check if voltage over the a,b-IN wires is between 20-50 V DC.



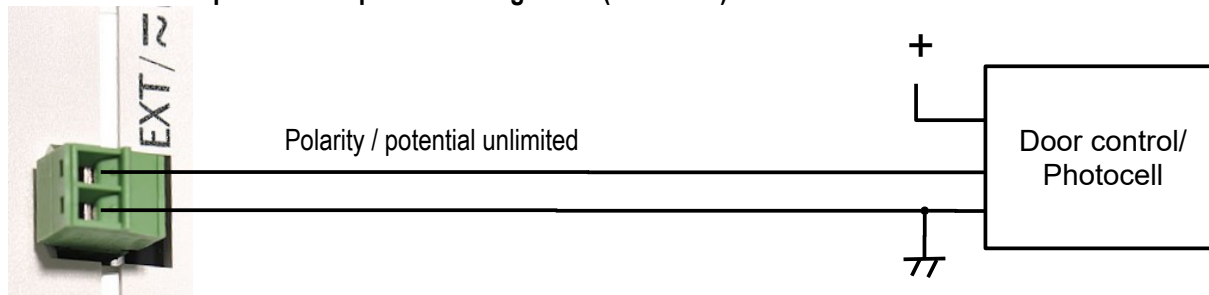
4.2 Sensor-Wiring

All sensor-inputs are available for potential-free contacts on the EXT jack on the alarm unit. Sensor-1/3 are also available as voltage input => built-in optocoupler (S1 at EasyAlarm® S3 at the LMK70C/T). The non-insulated connections are sensitive to radiation from external fields, and connected to the PSTN (telephone network). Thus the quality of the hands-free connection is optimal, consider the following points:



- ➔ Cut cable to size and do not wind up together with other cables.
- ➔ Line up cable separated from cable in parallel to avoid interference. Do not extend wiring over the hanging cable.
- ➔ Disconnect telephone line before connecting sensors to avoid contact to the telephone voltage.
- ➔ All sensor-contacts connected directly must be potential free.
- ➔ Provide isolation of at least 1750V to ground.
- ➔ Hands-free problem solving ☞ 8.3.

4.2.1 Misuse protection input / Alarm signal S1 (Sensor- 1)



Connect door / photocell signal S1 (10 to 50 V AC or DC) to the green terminal of the on the EasyAlarm®. Polarity and reference potential may be arbitrary.

Function depends on the position of the selection switch

Position	Info
I	Emergency call without misuse protection / Signal S1 (Sensor-1) not monitored
II	Emergency call without misuse protection / Signal S1 (Sensor-1) as alarm: adapt alarm condition ☞ 9.11.1
III	Emergency call with misuse protection / Signal S1 (Sensor-1) used for misuse filter ☞ 9.11.2 ☞ Emergency call will be stopped when signal changes within misuse-protection time-out (=travel time)

4.2.2 Potential free emergency button (Sensor-2)

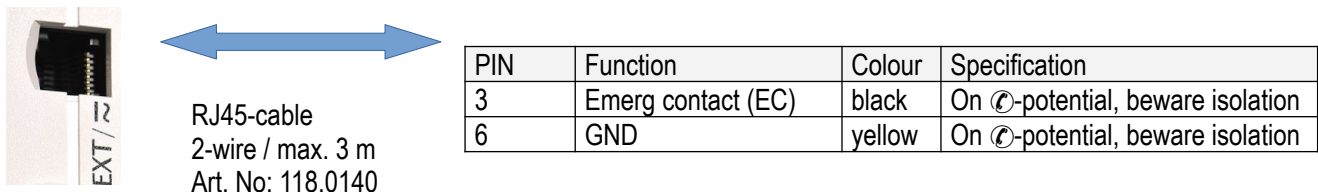
The emergency call button can be connected directly to the **EXT** jack or to the **X2** plug on the sub-communication unit.

Requirements for an emergency call button according to EN81-70:

- ➔ Symbol: Bell sublime.
- ➔ Centre of the button >90cm (<110cm) from cabin floor.
- ➔ Surface $\geq 490\text{mm}^2$.
- ➔ Panel orientation is portrait: alarm button must be the first button from the bottom.
- ➔ Panel orientation is landscape: alarm button must be the first button from the left.

Use only small signal switches or relay contacts. Do not use 230 V contact material, since it may not give a reliable contact.

If the emergency button is not isolated, i.e. older panels with only a single alarm contact for the alarm horn, the accessory EA-NT-IN (➔ 10.7) can be used to ensure isolation.



Wiring for normally closed contacts

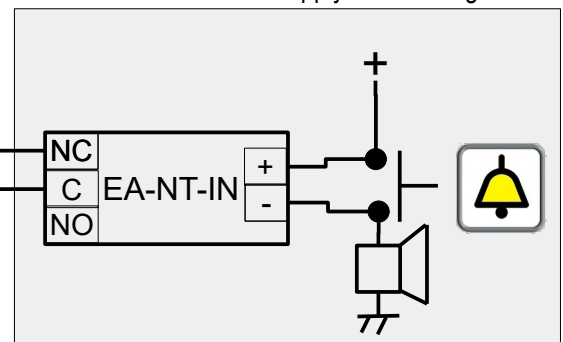
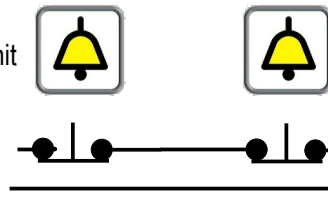
NC-contact

Caution: In case of horn supply loss: Emerg. call

connect to **X2** of sub-comm.-unit or **EXT**-jack PIN 3/6



NC/EC
C/EC



Retrofitting of existing plants with single-contact button for the alarm horn
➔ use EA-NT-IN (➔ 10.4)

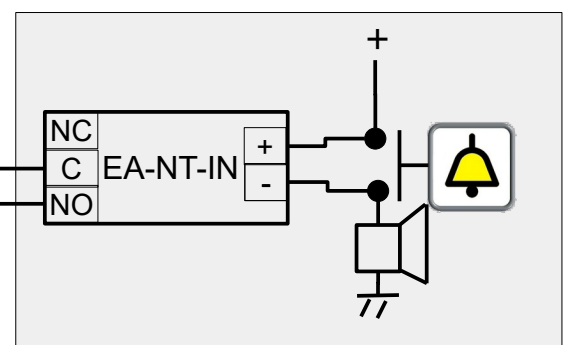
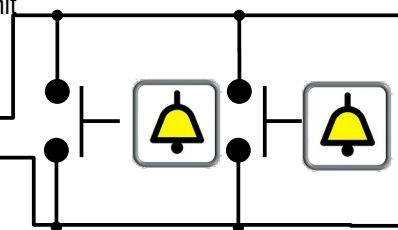
Wiring for normally open contacts:

NO-contact

connect to **X2** of sub-comm.-unit or **EXT**-jack PIN 3/6



C/EC
NO/EC



Adjust EasyAlarm® to the type of contact to be used (Normally open / Normally closed). Shipping: normally open, configuration: ➔ 9.12.

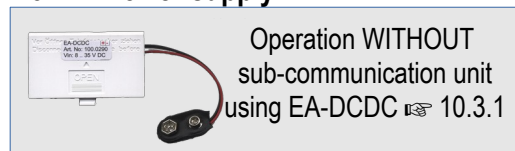
4.2.2.1 Remote controlled emergency button

① EA-LMK70C/T: if a remote-controlled button is used ➔ open drill hole INT inside the housing and connect coil wires to **X7**: Lamp(+) and ECTest(-) (max. 300 mA/Open-Collector).

4.2.3 Alarm signal S3 (Sensor-3)

① EA-LMK70C/T: Connect signal S3 (10 to 50 V AC or DC) to **X7**: S3 (IN). The polarity and the reference potential may be arbitrary. Adapt alarm condition ➔ 19.13.

4.3 Power supply



Supply voltage 230 V AC
USV-12V-IP-CPU 10.3.5



Operation WITH
sub-communication

V2 V7



Connect supply voltage (230 V AC) to X7: VIN(+) and VIN(-) of the sub-communication unit or to the voltage converter EA-DCDC 10.3.1 (Check polarity).

Notes:

- These outputs need VIN to be functional: Lamp1, Lamp2, LMK-OUT, EC-TEST, Loop
- The two VIN(+)-inputs of the sub-communication unit are decoupled via diodes.
e.g. for 24 V supply voltage (normal operation) and 12 V emergency power (UPS)!
- If only 230V AC are available you may use uninterrupted power supply USV-12V-IP-CPU 10.3.5:

4.4 Outputs

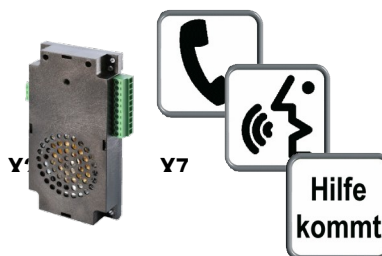
Connect lamp phone to X7: Lamp(+) and Lamp1(-)

Connect lamp speak to X7: Lamp(+) and Lamp2(-)

EA-LMK70C/T: Relay/Lamp to X7: Lamp(+) and LMK-OUT(-)

Notes:

- Output-voltage=VIN.
- Current: max. 300 mA/Open-Collector.
- Adapt output conditions to your needs 9.14.



4.5 LMK70T-Amplifier (Hearing aid loop / Exciter)

Connect either the hearing loop or the exciter at the output loop (terminal X2) and adjust amplifier using potentiometer VOLUME. Not functional without VIN applied.



4.6 Check wiring (Functional test)

OFF ☐ ON
PROG * * * * <n> activated or <n> deactivated OFF ☐ ON
PROG

<n> = 1, 2 or 3

- Sensor-1 = Misuse signal or alarm signal input S1
- Sensor-2 = Emergency button contact
- Sensor-3 = Alarm signal S3

In case of 2 activated when emergency contact is idle adapt contact type 9.12.

4.7 Programming

Calling numbers, Identification and functional-parameter 5 and 9.

4.8 Operation

Choose selection switch position

Position	Info
I	Emergency call without misuse protection / Signal S1 (Sensor-1) not monitored
II	Emergency call without misuse protection / Signal S1 (Sensor-1) as alarm: adapt alarm condition 9.11.1
III	Emergency call with misuse protection / Signal S1 (Sensor-1) used for misuse filter

Set function switch to ON OFF ☐ ON
PROG

In case of Battery error or beep,beep,beep 7.4.

In case of Check phone line 8.2.

In case of Power failure 4.3.

After the announcement: (Operation mode-) Supervision I/II/III activated EasyAlarm® is ready 6.

If you press key 1 - 9 a call to the appropriated calling number will be triggered.
Brief the alarm operator how to serve the EasyAlarm® call (short instructions available).

5. PROGRAMMING

- All the programmed parameters remain stored by switching off the alarm unit.
- If you want to prevent EasyAlarm® from unwanted reprogramming ↗ 5.5.1.

Doing so you will get message **Programming deactivated: PIN** switched to PROG.

- Adjusting this parameter has influence on the described performance. Change these values only when absolutely necessary and test the desired behaviour prior to use.

5.1 How to program new calling numbers (Announce/Change/Delete)

EasyAlarm® supports nine calling numbers. To announce or modify a number please proceed as follows:

1. Set function switch to PROG.
2. Enter *** * <n>** (n = **1** to **9**: selected calling number).
3. If you want to modify calling number press *****, otherwise proceed with step 5.
4. Enter new calling number. To delete number switch to OFF directly.
5. Set function switch to OFF.

Notes:

- Check each phone number with a test call ↗ 6.8.
- Each key press is confirmed with a beep.
- Key **#** will lead to a dialling delay of 5 seconds, provided it is entered between two digits, e.g. a delay is essential in a private exchange. (i.e. **0 #** calling number).
- If your private exchange needs a flash pulse to start an internal call, following programming is possible: **2 #** followed by the extension number.
- Key ***** as part of the calling number will result in a call using protocol Point-ID/Contact-ID ↗ 5.1.1.
- Calling number 1 cannot be deleted due to safety aspects because it is the only number to be called in case of an emergency operation (supply power loss and battery empty at the same time).
- Calling number 9 is reserved for routine call ↗ 6.5.5 and for alarm due to power failure ↗ 6.5.4.

5.1.1 Alarm using Point-ID (Contact-ID) protocol

If the alarm should be transferred to an alarm organisation using the Point-ID (Contact-ID) protocol, the alarm number has to be followed by key ***** and the customer-ID. EasyAlarm® forwards the protocol to this alarm number and connects hereafter to the following calling number in standard Hands-free connection mode.

Example:

Calling number 1: Number for Voice-call (without power supply this is the only number that can be called)
Calling number 2 and 9 (Point-ID) :074567890 Separator Customer ID: 3456
0 7 4 5 6 7 8 9 0 * 3 4 5 6

Change calling number sequence *** * 0** to **2 1 3**, so that calling number 2 is called first!

Note:

- The first character ***** that follows the alarm number will not be transmitted (=> separator). The customer ID is a four digit code. In case of an alarm the following codes are transmitted according to the <Cause of alarm>.
- 213

Code	<Cause of alarm>	Zone
120	Alarm due to emergency button (Sensor-2)	902
140	Alarm due to Sensor-1 (Sensor-3)	901 (903)
301	Alarm due to supply power loss	900
601	Test call	900
602	Routine call	900

5.1.2 Hotline mode

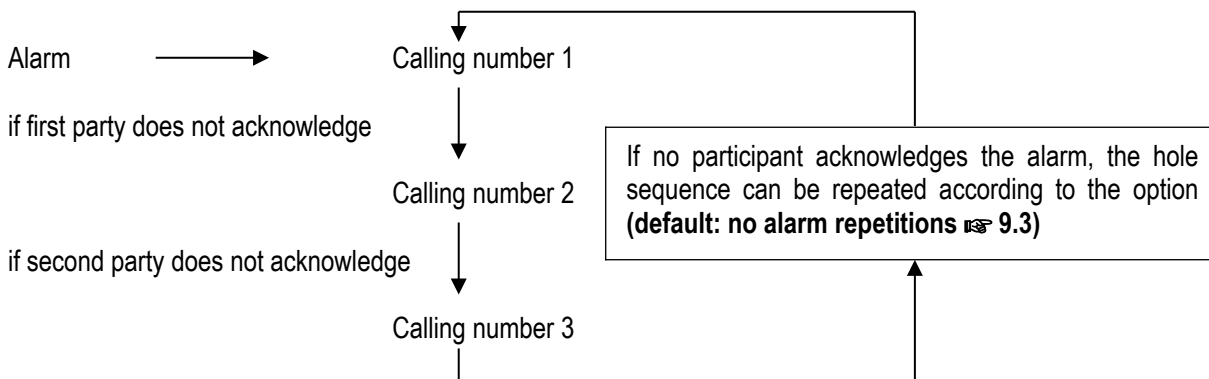
You can use EasyAlarm® in a so called hotline-mode. EasyAlarm® only takes the telephone line and the private exchange does the dialling (Program calling number 1 with **#**).

Using this Hotline-Mode the following programming are typical:

1. No user announcements during connection ↗ 9.6.
2. Dialling-in in Hands-free connection without PIN-Code ↗ 9.8.3.

5.2 Calling numbers sequence

5.2.1 Standard-sequence



A called party can acknowledge the alarm by sending touch-tone **[0]** 6.6.7.

5.2.2 How to program new calling numbers sequence

1. Set function switch to PROG.
2. Enter *** * 0**.
... to modify press *****
3. If you want to modify the calling number sequence press ***** followed by the digits of the new sequence (max. 9 digits).
4. Set function switch to OFF.

Sample for programming calling number sequence:

- **1 2 3** → Call number 1 first, then number 2, followed by number 3.
- **1 1 1 1 3 3 3 2 2** → Call number 1 with four attempts, then calling number 3 with three attempts followed by calling number 2 with two attempts.
- **2 3 1** → In normal operation calling number 2 will be used first followed by calling number 3 and in the end 24hour calling number 1. This assures a call to the 24h number in case of power loss combined with battery failure.

Notes:

- Calling number sequence is factory set to **1 2 3**, and a factory reset 9.2 will NOT RESET sequence.
- In emergency operation mode (no battery, no supply) only calling number 1 will be called. Sequence not relevant!
- In case a calling number that is part of the sequence is not programmed this number will automatically be skipped.
- If a called number is busy and another calling attempt to the same number is set, the waiting time before re-dialling is set to 30 seconds.
- If the calling number changes within the sequence, next number will be dialled without delay.

5.3 Remote programming of calling number and calling number sequence

The calling numbers and calling number sequence can be re-programmed during any telephone connection:

1. Enter touch-tone sequence *** * <n>** (n: see table below).
... to modify press *****
2. If you want to change send *****, otherwise send **#**.
3. Enter new calling number or sequence.
➔ After entering last digit you have to wait for 10 seconds. The new value will be announced followed by the request to send touch-tone **<n>** to confirm change.
If you do not confirm within 10 seconds or if another key is pressed you will hear **Programming: Abort** and the old programming remains active.


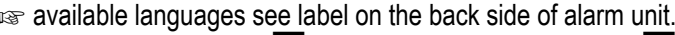

<n>	Info	Programming
[0]	Calling number sequence (9 digits at max)	5.2.2
[1]	1. Calling number (24 digits at max) 9. emergency operation number	5.1
[2]	2. Calling number (24 digits at max),	
to		
[9]	9. Calling number (24 digits at max) 9. routine number, alarm due to power failure	

Note:

- Enable / disable remote programming 9.9.

5.4 How to select user language / record individual message

You may listen to or record new individual message as following:



1. Set function switch to PROG.
2. Enter sequence *** * #**.

3. Select user language (optional entry): key **1** for DE, **2** for FR, **3** for GB, **4** for IT.

4. Start recording using key *****, record new text and stop with **#** (max duration is 12 seconds).


5. Set function switch to OFF.


Note:

- Repeat step 4 until you are satisfied with your recording.

5.4.1 Remote recording of individual message during telephone connection


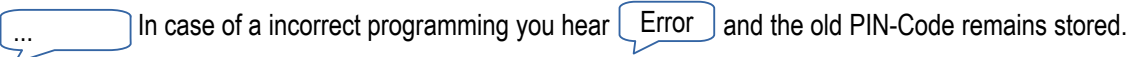
1. Enter touch-tone sequence *** * # #**.

2. Select user language (optional entry): key: Touch-tone 1 for DE, 2 for FR, 3 for GB, 4 for IT.
3. Send ***** to start recording, record new text (max duration is 12 seconds) and wait until new recording is reproduced.

4. Wait unit **Abort**. New recording is done.

Note:

- Enabled/disabled remote programming  9.9.

5.5 How to program PIN-Code (Identification)

You can change remote access PIN-Code as follows:

1. Set function switch to PROG.
2. Press **#**.

3. Enter PIN-Code (4 to 7 digits).
4. Press **#**.
5. Re-enter PIN-Code for confirmation.
6. Press **#**.

7. Set function switch to OFF.

Notes:


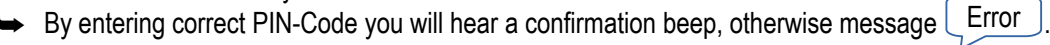
- PIN-Code must contain 4 (min) to 7 (max) digits.
- PIN-Code is factory set to 0000. For safety reason we recommend to program your own PIN-Code.
- During telephone connection you may playback PIN-Code by sending touch-tone **#**.
This function may be used to identify alarm unit, i.e. when using commission number as PIN-Code.

5.5.1 Lock program mode

If you initiated programming new PIN-Code with key ***** the program mode is locked unless you unlock by re-entering PIN-Code. This feature prevents from unintentional reprogramming during operation.

5.5.2 Unlock program mode

Having the programming blocked as described under 5.5.1 you can unlock as follows:

1. Set function switch to PROG.

2. Enter PIN-Code followed by **#**.

3. Set function switch to OFF.

6. FUNCTIONAL DESCRIPTION

6.1 Self test at power on

At power (function switch to ON), the battery condition, the power supply and the telephone line will be tested. Any problem will be fault announced. Resolve the problems immediately. Otherwise, safe operation is not fulfilled.

In case of power failure, while insufficient battery you will hear: beep,beep,beep .

6.2 Arm / Disarm system

After power on EasyAlarm® is in armed state. In operation mode the alarm unit can be armed or disarmed during phone connection using touch-tone [9] and [7].

6.3 Waiting period

6.3.1 ..after power on or changing position of selection switch

EasyAlarm® remains inactive for 30 seconds (The green LED is on continuously) so alarm through sensor-activation is not possible. An emergency call is possible during this waiting period.

Note

- This waiting period is equal to the max. duration of cabin travel ➤ 9.11.2.

Key	Response on key
5	Announcement of the monitoring functions and changes in the monitoring mode
7	Bypass waiting period and change to inactive monitoring mode
9	Bypass waiting period and change to active monitoring mode
others	Initiate a test-call to desired calling number

6.4 Supervision mode

6.4.1 Announcement in supervision mode

The supervision function depending on the position of the selection switch will be announced as follows:

Supervision I/II/III (de)activated

If the routine call is enabled:

Operation mode, supervision I/II/III (de)activated

6.4.2 Indication of the operating status on EasyAlarm®

LED status	Operation mode
Green	Waiting period ➤ 6.3
Green flashing every 4 seconds	Supervision mode (activated) ➤ 6.4
Green is on and off for 4 seconds alternatively	Supervision mode (deactivated) ➤ 6.4
Orange	Telephone connection ➤ 6.6

6.4.3 Display of the operating status at the substation

EN81-28:2018: If no acknowledgement (DTMF C) is received from the receiver during the routine call, this is signalled by an alternating flashing of the two EN81-70 symbols ➤ since version 8.51

6.5 Alarm functions

Supervision functions	active on			Call in..	Cause of alarm
	I	II	III		
Emergency call	✓	✓	✓	..hands-free connection	Emergency call activated...
Misuse protection	✗	✗	✓	..will be cancelled	The door is open,...
Sensor-1 (can be deactivated)	✗	✓	✗	..service connection	Alarm due to Sensor-1
Sensor-3	✓	✓	✓	..service connection	Alarm due to Sensor-3
Power failure (can be deactivated)	✓	✓	✓	..service connection	Alarm due to power failure
Routine call	✓	✓	✓	..service connection	Periodical test call

6.5.1 Emergency call

The emergency call is triggered when the button is pressed during a specific time. EasyAlarm® starts to dial calling number(s) according to the calling number sequence in hands-free connection.

Emergency call activated. You are about to be connected

Notes:

- Factory delay time: 1 second. ↗ 9.12.3.
- EN81-70: Yellow lamp on the sub-communication unit is activated.
- Alarm forwarding to the building control system ↗ 9.14.2.



6.5.1.1 Misuse protection

If selection switch is on position III an alarm is only triggered, if the door contact does not change within a pre-programmed period (it is recommended to program this time according to the longest possible travel of cabin, factory set to 30 seconds). During this pre-alarm period following information is provided:

Emergency call activated. You are about to be connected

If the door state changes you will hear:

The door is open. Emergency call deactivated. Alarm acknowledged

If the door contact does not change within this period, EasyAlarm® starts to dial calling number(s) according to the calling number sequence in hands-free connection.

Emergency call activated

Notes:

- Factory misuse protection time-out (=maximum travel time.): 30 seconds ↗ 9.11.2.
- In case of emergency operation (supply loss and low battery) there will be no misuse protection.

6.5.2 Alarm due to Sensor-1 (Alarm contact)

If selection switch is on position II an alarm will be triggered in active supervision mode as soon as the Sensor-1 contact is activated. EasyAlarm® starts to dial calling number(s) according to the calling number sequence in service mode.

Alarm due to Sensor 1

6.5.3 Alarm due to Sensor-3 (Alarm contact)

On all position of the selection switch an alarm will be triggered as soon as the Sensor-3-contact is activated. EasyAlarm® starts to dial calling number(s) according to the calling number sequence in service mode.

Alarm due to Sensor 3

6.5.4 Alarm due to power failure

If the supply voltage fails for a defined period, EasyAlarm® calls routine number 9 in service mode.

Alarm due to power failure

Notes:

- After power up EasyAlarm® mains power will be tested. If there is no mains power you will hear **Power failure**. Once the power supply is detected, EasyAlarm® automatically activates power failure monitoring.
- Factory network downtime: 120 Min. ↗ 9.5.1.
- Alarm power failure to calling number sequence ↗ 9.5.2 (Factory setting to routine number 9) .

6.5.5 Routine call

When routine call is activated EasyAlarm® calls routine number 9 in the selected interval ↗ 9.4. To enable routine call, make a remote access dial ↗ 6.9, enter touch-tone *** * # 1** or a similar command ↗ 6.6.4.


Periodical test call

EN81-28:2018: If no acknowledgement (DTMF C) is received from the receiver during the routine call, this is signalled by an alternating flashing of the two EN81-70 symbols ↗ since version 8.51


6.6 Telephone connection

The colour of the indicator LED changes to orange during telephone connection.

6.6.1 Dial up time-out

EasyAlarm® tries to get in contact with called party for one minute (Profile P00) or two minutes (Profile P02/03/04). During this time-out the Individual message will be announced periodically (P00) until the called party accepts call by sending **[1]** or just once if dial tone is present (P02/P03/P04)  green lamp "speak" on sub-communication unit is activated.

Note:

- Adjust dial-up time-out  9.7.1.

6.6.2 User announcement

User announcement is made up of


„Individual announcement“

Cause of alarm

to stop press **[0]**, to speak press **[1]**



Notes:

- Adjust user announcement  9.6.
- At the beginning of any phone connection battery state and main voltage are checked. In case of a problem an appropriated message will be announced.

6.6.3 Connection time-out

If the call is accepted or extended by sending **[1]** or **[3]** the connection time-out will be 4 minutes.

10 seconds before time-out there will be a warning **Abort**.

Connection time-out can be renewed by sending touch-tone **[1]** or **[3]** for another 4 minutes.

6.6.4 Touch-tone commands during telephone connection

Touch-tone commands during telephone connection		
Touch-tone DTMF	Every valid command will be signalled	
#	Announcement of PIN-Code (i.e. to identify elevator location)	
0	Terminate telephone connection and acknowledge alarm	
1	Switching to hands-free mode and restart connection time-out (4 minutes) and activate green lamp EN81-70 on the sub-communication unit	
2	Repeat announcements (Individual message / Cause of alarm)	
3	Uphold telephone connection (4 minutes) and activate green lamp EN81-70 on the sub-communication unit	
4	Deactivate output (i.e. "Help is coming" ↗ 9.14.2)	
5	Announcement of current supervision mode as well as condition of the output	
6	Activated output LMK-OUT (i.e. "Help is coming" ↗ 9.14.2)	
7	DISARM: Deactivate power-failure- and Sensor-1-monitoring temporarily.	
8	<ul style="list-style-type: none">During alarm connection: Terminate telephone connection and pass on alarm to next party in calling number sequenceIf no alarm is active: Start test call towards calling number 8 ↗ 6.8.2.1	
9	ARM: Re-activate power-failure and Sensor-1-monitoring	
* * 0	Announcement of calling number sequence	After the announcement you are able to re-program the calling number ↗ 5.3
* * <n>	Announcement of calling number <n> (<n> = 1 to 9)	
* * # #	Record individual message ↗ 5.4.1	
* * # 0	Deactivate routine call	
* * # 1	Activate routine. If left blank <h>, first routine call start after the programmed time-out ↗ 9.4	
or * * # 1 <h>	Start first routine call after <h>-hours. Follow-up calls in the time interval ↗ 9.4	
* * # 2	Start routine call once without any delay	

6.6.5 Service connection

In service mode the microphone and the loudspeaker remains inactive. This connection mode is used for technical alarms (Sensor-1, Sensor-3, power failure, routine call and test call). By sending touch-tone **[1]** you may switch to hands-free connection. If you change to hands-free connection three rings will alert a person inside the cabin for coming situation.

6.6.6 Hands-free connection

In hands-free microphone connection as well as loudspeaker are activated. Hands-free connection will be established automatically in case of an emergency call and during test call.

6.6.6.1 Adjust hands-free volume

During hands-free connection you can increase volume by pressing local key **#** or decrease by pressing *****. Level can be adjusted in twelve steps (1 dB each) and remains stored. If hands-free volume or quality is poor please check assembly instructions ↗ 3.2.

6.6.6.2 Adjust hands-free volume on sub-communication unit EA-LMK70C

Volume can be adjusted using the potentiometer volume (VOL).

Notes:

- The additional amplifier is only active if supply voltage VIN is present.
- If the volume is too high this can lead to an unwanted feedback ↗ 8.3.

6.6.6.3 Adjust volume of audio-outputs on sub-communication unit EA-LMK70T

Level of hearing-aid-loop or exciter can be adjusted using potentiometer volume (VOL).

Note:

- This audio output is available only when the power VIN is applied, but not in emergency mode.

6.6.7 Acknowledge alarm / Terminate connection

A called party can either acknowledge and end call by sending touch-tone **[0]** or passing alarm to next calling number by sending **[8]**.

Notes:

- You can stop call by pressing key **[0]** of the alarm unit.
- If the alarm is programmed to a pager, the called person can confirm alarm during remote access after dialling-in.

6.7 Alarm repetition

If an alarm has not been acknowledged after passing all calling numbers within the calling number sequence you may add some alarm repetitions ↗ 9.3. Factory setting: No alarm repetition.

6.8 Test call

6.8.1 Start with local key pad

When switched on, a test call can be started on the selected calling number **1 - 9**.

Calling number **1 - 9**

If this calling number is not programmed there will a announcement **Error**, and calling number 1 will be dialled instead.

Wait for connection and talk.

End connection: Press key **[0]** or switch to OFF.

Notes:

- During test call ONLY the selected calling number will be dialled, i.e. the calling numbers sequence will be IGNORED! ↗ 5.2.
- After four minutes telephone connection will automatically terminate if called party does not send any touch-tone command (i.e. called subscriber can disconnect sending **[0]** or restart connection time-out using **[3]**).
- During inactive waiting period after power up key **[9]** and **[7]** activate or deactivate the supervision of Sensor-1 and power-failure monitoring. Key **[5]** starts the announcement of the actual supervision mode.
- The volume of the hands-free connection can be adjusted ↗ 6.6.6.

6.8.2 Start test call from remote during the telephone connection

6.8.2.1 Test call to calling number 8 in hands-free connection

If no unacknowledged alarms are present, touch-tone **[8]** activates a test call to calling number 8.

Alarm to calling number **8** activated

EasyAlarm® disconnects and start dialling calling number 8 after 15seconds. If calling number 8 is not programmed, calling number 1 will dialled instead.

6.8.2.2 Test call to routine number 9

Touch-tone sequence **[*][*][#][2]** activates routine call.

Routine call activated

EasyAlarm® disconnects and start dialling calling number 9 within two minutes. If calling number 9 is not programmed, no other number will be dialled instead. EN81-28:2018: If no acknowledgement (DTMF C) is received from the receiver during the routine call, this is signalled by an alternating flashing of the two EN81-70 symbols ↗ since version 8.51

6.9 Remote access by dialling-in

If the alarm unit is switched to ON you can dial in from distance as following:

6.9.1 Direct dialling-in (Profile P00,01,03,04)

1. Dial phone number where EasyAlarm® is connected.

6.9.2 Two-step dialling-in (Profile P02)

1. Dial phone number where EasyAlarm® is connected.
2. Let it ring two times and hang-up.
3. Re-dial after 20 seconds.

After the programmed ringing cycles ➡ 9.8.1 EasyAlarm® answers call and asks for PIN-Code to access.

After entering correct PIN-Code EasyAlarm® establishes service connection (speaker and microphone remain inactive to maintain the privacy of the person in the cabin).

to stop press **[0]**, to speak press **[1]**



By sending touch-tone **[1]** you may switch to hands-free connection. Doing so the green lamp on the sub-communication unit will be activated (EN81-70) and three rings will inform a person inside the cabin.

If no touch-tone command is entered the connection will be terminated after connection time-out of 2 minutes.

Notes:

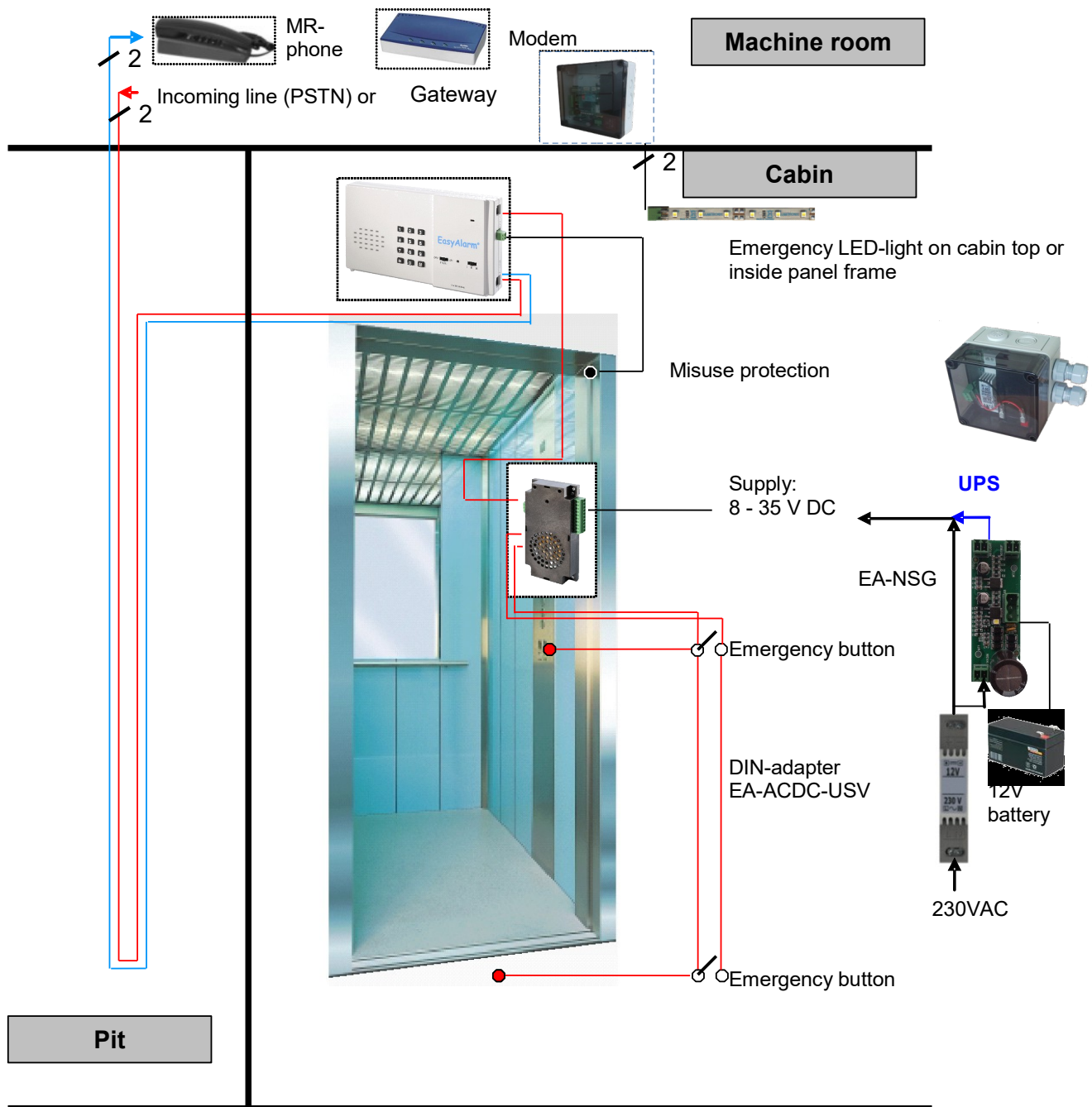
- If there are any unacknowledged alarms, their number will be announced and the cause of alarm of the last call. By sending touch-tone **[0]** you can acknowledge these alarms and terminate connection.
- The number of ringing-cycles can be adjusted ➡ 9.8.1.
- If touch-tone **#** is send instead of the PIN-Code, the number of ringing cycles for next access will be increased by 5 i.e. to access a modem connected in parallel.
- Adjust dialling-in sequence ➡ 9.8.2.
- If access should be in hands-free connection and/or without PIN-Code ➡ 9.8.3.
- If the PIN-Code is incorrect or not entered within 15 seconds, EasyAlarm® disconnects after **PIN-error, abort** => try again and enter correct PIN.
- PIN-Code is factory set to 0000. For safety reasons we recommend changing PIN-Code and program your individual code according to the manual ➡ 5.5.
- During inactive waiting period (indicated by a permanently activated green LED you can dial-in directly.

6.10 Machine room communication (EA-8-DPXM / EA-8-DPXFm)



With a standard telephone you are able to communicate with the cabin using EasyAlarm® EA-8-DPXM.

6.10.1 Wiring

Connect PIN3/4 of the machine room telephone (or modem) with PIN2/5 of ☎-LINE.



6.10.2 Functional description

- If the telephone/modem will be set off-hook, the hands free communication to the cabin will be activated automatically. The green lamp on the sub-communication unit in the cabin will be activated.
- The telephone/modem can dial-out to the PSTN by sending touch-tone . Doing so EasyAlarm® gives access to the PSTN and the telephone/modem can dial out to any external number.
- If you want to dial out with a modem automatically you have to program the number as following: 0 , <calling number>." , " will enter a dialling delay of 2 seconds.
- An external connection will be disconnected automatically if EasyAlarm® has to dial out in case of an alarm.
- In case of a dial-in a call will be signalled on the telephone/modem as ringing. If it answers the call before EasyAlarm® the telephone/modem is connected to the external party => the dialling access of EasyAlarm® can be adapted  9.8.2.

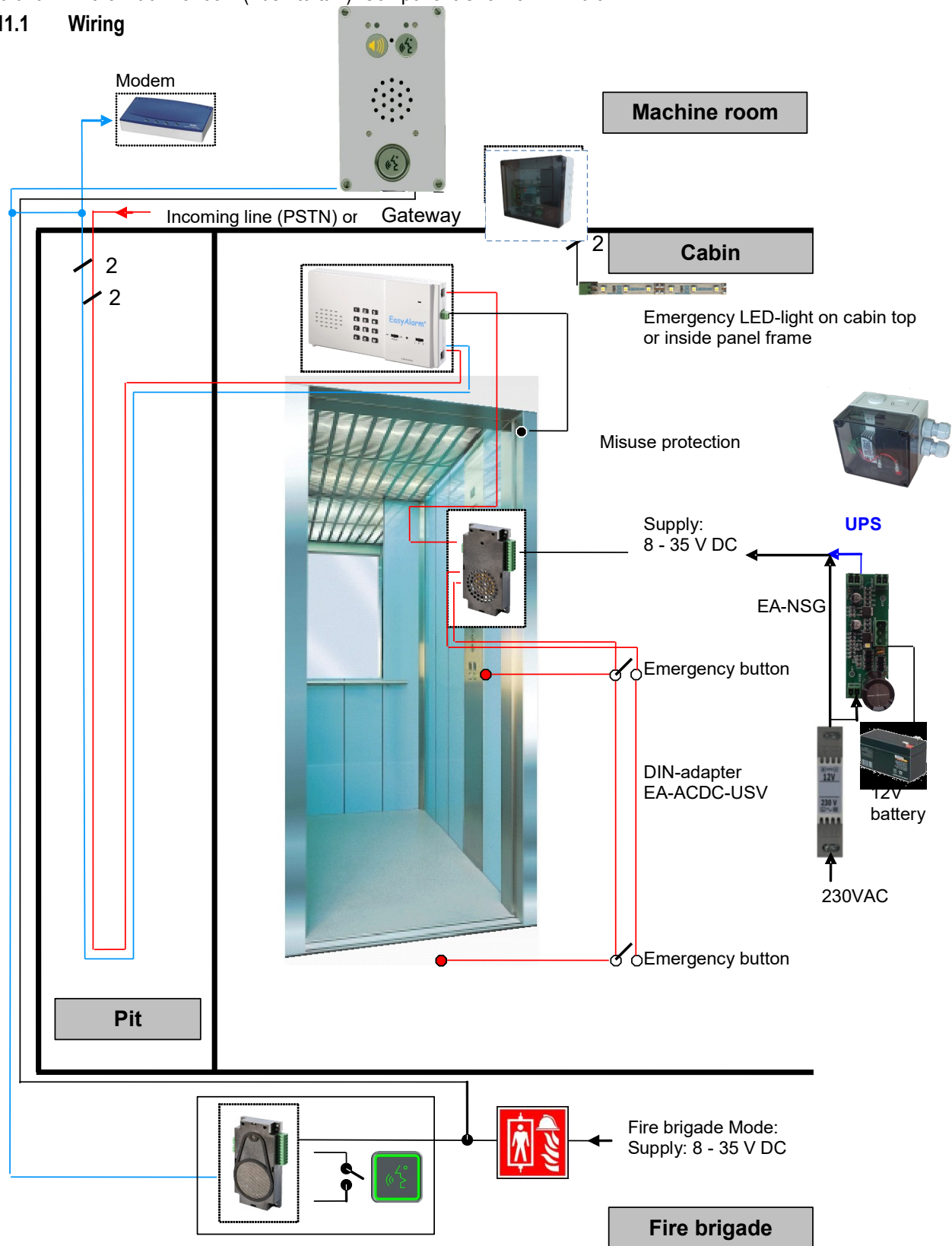
Notes:

- The functionality above is only available with applied supply (not in battery mode).
- In case of a power loss the telephone/modem is connected to the PSTN in parallel to the EasyAlarm®.

6.11 Fire brigade communication EN81-72

The fire service communication is based on the machine-room communication with alarm unit EA-8 DPXM in the cabin 10.8. Instead of the machine room telephone there will be a 118.0202E at the fire-brigade entry (Hands-free) and a 118.0204E in the machine room (Push-to-talk). Component Overview 10.8.

6.11.1 Wiring



6.11.2 Functional description

- Activate fire brigade mode using key on the fire-brigade panel.
- Handsfree between fire brigade entry 118.0202E and cabin (EasyAlarm from version V52) 10.8 Symbols yellow / green
- Push-to-talk in the engine room with 118.0204E:
 - Talk button active: microphone active 10.8 green symbol.
 - Talk button inactive: microphone deactivated 10.8 Symbol yellow.

6.12 Multi floor intercom

Component Overview 10.8.

7. USEFUL NOTES

7.1 Touch-tone commands

A called party can remote control EasyAlarm® to its full potential using touch-tone commands. Nowadays most of the telephones in use are working on tone-dialling, also called DTMF or in-band signalling. Older telephones are using pulse dialling. In case there is no tone-dialling telephone available, the features shown in section 6.6.4 cannot be used.

7.2 Announcement

Announcement	Message / Cause
Individual announcement	First announcement in case of an alarm => identification of the location
„Abort“	Connection terminated or programming aborted
„Alarm acknowledged“	Alarm stopped
„Alarm due to Sensor-1/3“	Alarm due to Sensor-1 or Sensor-3 contact / signal
„Alarm to calling number 8 activated“	Test call to routine number 8 activated by sending touch-tone 8 ↗ 6.8.2.1
„Battery error“	Battery is low ↗ 7.4
„Calling number sequence“	Calling number sequence ↗ 5.2
„Calling number“	Calling number ↗ 5.1
„Check phone line“	No dial tone when switched on ↗ 8.2
„Emergency call activated“	Emergency call activated by emergency button
„Emergency call deactivated, alarm acknowledged“	Call has been acknowledged or stopped by a change of the door signal
„Error“	Mistake while programming. The old value retain active
„Operation mode, supervision (de)activated“	Announcement of the supervision mode ↗ 6.4 if announcement „operation“ = routine call activated
„Output activated“	LMK-OUT output is activated (i.e. "Help is coming")
„Periodical test call“	Routine call active ↗ 6.5.5
„PIN“	Request to enter the PIN
„Power failure“	External supply missing
„Programming acknowledged“	Remote programming successful
„Programming deactivate: PIN“	Request to enter the PIN code to unlock programming
„Programming, Abort“	Incorrect remote programming
„To modify press star, to stop press hash“	User guidance during programming
„<Operation> supervision I/II/III (de)activated“	Announcement of the supervision mode ↗ 6.4 if announcement „operation“ = routine call activated
„Unacknowledged alarms: n“	Number of unacknowledged alarms

7.3 Functional tests

7.3.1 Test call

We advise to start test-call to check functionality of EasyAlarm® before starting operation ↗ 6.8.

7.3.2 Test alarms

Although the alarm unit with the exception of the battery is maintenance free, you should check at regular intervals all alarm functions ↗ 8.5, in particular:

- Emergency button
- Door contact (misuse)
- Sensor-1/3 contacts

7.3.3 Routinecall

EN81-28:2018: If no successful routine call has taken place (communication with routine call receiver, DTMF C), this is signalled by an alternating flashing of the two EN81-70 symbols ↗ from version 8.51 on.

The routine call is performed

- manually by pressing key **9** ↗ 6.8.2.2
- automatically when routine call is activated (announcement when switching on: Operation mode, supervision) ↗ 6.4
From version 8.51 always two hours after switching on, for older versions only after the set time span ↗ 9.4, and if the routine call was activated with *** * # 1** ↗ 6.6.4

7.4 Battery check / replacement


Change battery if you hear the following announcement after power-up: **Battery error** or **Piep, piep, piep**

1. Set Function switch to OFF.
2. Disconnect EasyAlarm® from telephone network, by removing the telephone cord.
3. Open battery cover and remove battery.
4. Insert new battery and close battery compartment.
5. Reconnect EasyAlarm® to the telephone network.

Notes:

- Always use fresh 9V-batteries.
- Dispose the old battery properly.
- Before opening battery compartment you have to disconnect the telephone-line. Otherwise you can get in contact with telephone network voltage.
- If you use backup supply voltage VIN you do not need 9V-battery. Doing so you can deactivate battery test:

OFF  ON PROG	* 9 7 1 3 2 7 # #		*	Value	#	OFF  ON PROG
--	--------------------------	---	----------	--------------	----------	--

Value	Info
0	Battery test activated (Factory setting)
4 	Battery test deactivated Warning: In case of a supply power down, only calling number 1 can be dialled (emergency operation)

7.5 Maintenance

Shift function switch to OFF and remove telephone cord. Clean EasyAlarm® if necessary using a moistened cloth and dry it afterwards.

Note:

- Do not use cleaning agents or solvent.

8. TROUBLE SHOOTING / ERROR HANDLING

8.1 General

Symptom	Cause and /or remedy
Alternate flashing of the EN81-70 symbols	<ul style="list-style-type: none"> No successful routine call in the last time interval ↗ 7.3.3 No or incorrect routine number 9 programmed Routine call receiver does not send DTMF-C as acknowledgement DTMF transmission faulty, i.e. DTMF-C does not arrive at the dialler (IP telephony incorrectly set or similar ↗ 1.1)rt was set ↗ 6.6.4
LED indicator is inactive when switched on	<ul style="list-style-type: none"> Supply voltage and battery missing
Programming deactivated: PIN	<ul style="list-style-type: none"> Programming mode is locked. Unlock ↗ 5.5.2
beep,beep,beep	<ul style="list-style-type: none"> Supply voltage missing and low battery
Battery error	<ul style="list-style-type: none"> Battery low. Replace immediately ↗ 7.4
Power failure	<ul style="list-style-type: none"> Supply voltage missing / power adapter not plugged
Announcements do not make sense	<ul style="list-style-type: none"> Voice chip inside alarm unit faulty (wrong text order)

8.2 Telephone line / Connection

Symptom	Cause and /or remedy
Check phone line	No dial tone present during telephone line test:
No dial tones are audible during a test call => no tones are audible during the dialling procedure	<ul style="list-style-type: none"> Incorrect contact type ↗ 9.12 (Serial-No. < 90'000) Alarm unit is not connected with PSTN Insufficient insulation: Telephone and control connected / telephone line grounded Another telephone in parallel is already off-hook <ul style="list-style-type: none"> ➔ Plug in cable, check cable ➔ Use another telephone to verify telephone-line
After connecting no Announcements audible. Alarm point only hears some touch-tones Disconnection after approx., 30 seconds	<ul style="list-style-type: none"> * is an unwanted part of the calling number <ul style="list-style-type: none"> ➔ * initiate a Point-ID-protocol alarm ↗ 5.1.1 ➔ Check calling number ↗ 5.1
No connection during test call: Calling number n Error	<ul style="list-style-type: none"> Calling number (n=1 to 9) is not programmed
No connection during test call Calling number n and dial-tone audible	<ul style="list-style-type: none"> Calling number faulty Called party does not answer call
Emergency-button works incorrect. Emergency call activated after power up even if button is inactive	<ul style="list-style-type: none"> Incorrect contact type ↗ 9.12
Incorrect dial-up. During local programming dial-tone are audible in the background	<ul style="list-style-type: none"> Incorrect contact type ↗ 9.12 Insufficient insulation: Telephone and control connected / telephone line grounded
No outgoing call possible Dialling-in access works fine	<ul style="list-style-type: none"> Subscriber did not pay bill Outgoing calls not allowed
Announcements in communication seems to be at the wrong time (too early, too late)	<ul style="list-style-type: none"> Adjust user announcement ↗ 9.6 Alarm point may replay announcement sending touch-tone 2

8.3 Quality of the hands-free communication / Touch-tone during connection

Symptom	Cause and /or remedy
Speaker and microphone of sub-communication unit inactive	<ul style="list-style-type: none"> EXT-cable (RJ45) is only 6-wire instead of 8-wire
Alarm point is dominant during hands-free connection (cabin can't be heard properly)	<ul style="list-style-type: none"> Disturbance or ripple on the phone line (hanging cable) <ul style="list-style-type: none"> Telephone wires a/b are not separately laid (crosstalk of neighbouring wires) ADSL-interference: add ADSL Filter before EasyAlarm® Incorrect assembly of sub-communication unit ↗ 3.2 Adjust hands-free volume ↗ 6.6.6 Strong background noise from the alarm point: fans, printer, lawn mowers <ul style="list-style-type: none"> Check by muting microphone of the telephone in the alarm point
Cabin is dominant during hands-free connection (alarm point can't be heard)	<ul style="list-style-type: none"> Disturbance or ripple on the EXT-cable (RJ45) to sub-communication unit <ul style="list-style-type: none"> to verify: disconnect EXT-cable Turn off power to the cabin and perform test call. If hands-free is fine check the following points: <ul style="list-style-type: none"> cable cut if possible ↗ as long as necessary! Otherwise do not wind up excessive lengths up together with other cables Isolate cable as far as possible from "disturbing" cables in parallel Problem due to excessive feedback, <ul style="list-style-type: none"> Adjust hands-free volume ↗ 6.6.6 Check assembly of sub-communication unit ↗ 3.2 EasyAlarm® in protective housing => disable internal micro ↗ 3.1 Microphone on sub-communication unit or EasyAlarm® sealed Strong background noise in the cabin: Vents <ul style="list-style-type: none"> Activate BackGroundNoise-Filter (BGN) ↗ 9.15
Touch-tone commands during telephone connection do not show any reaction: i.e. alarm will not be acknowledged by 0	<ul style="list-style-type: none"> Used telephone does not support touch-tone or has not been configured to it => for example pulse dialling Used telephone is a system telephone <ul style="list-style-type: none"> Activate touch-tone transparent mode During internal calls with DECT, sometimes touch-tones are not transmitted

8.4 Dialling-in

Symptom	Cause and /or remedy
No access: EasyAlarm® always busy	<ul style="list-style-type: none"> Incorrect contact type ↗ 9.12 (Serial-No. < 90'000) Insufficient insulation: Telephone and control connected / telephone line grounded Telephone line circuit faulty i.e. lightning
No access: EasyAlarm® does not answer call	<ul style="list-style-type: none"> Number of ringing-cycles is set to 0 ↗ 9.8.1 Dialling-in sequence is set to two-step dial-in ↗ 9.8.2 Wrong dialling-in telephone number Too many devices on the same phone line
No access: EasyAlarm® disconnects playing PIN-error,abort	<ul style="list-style-type: none"> PIN-Code entered incorrect. Dial-in again and retry PIN-Code not entered within 15 seconds Message coming from an EasyAlarm® in parallel ↗ 9.8.3 No touch-tones received <ul style="list-style-type: none"> Access without PIN-Code ↗ 9.8.3 Too many devices on the same phone line, the desired EasyAlarm® has not taken the call

8.5 Wiring test

Sensor wiring (Sensor <n> =1,2,3) can be checked as following:

1. Set function switch to PROG.
2. Enter sequence * * * * .
➡ Sensor contact in alarm position <n> activated
➡ Sensor contact back to idle <n> deactivated
3. Set function switch to OFF.

8.5.1 Sensor-1: Alarm

Symptom	Cause and /or remedy
Sensor contact has been initiated, but alarm has not been passed on	<ul style="list-style-type: none">▪ Sensor-1 alarm only enabled on selection switch position II▪ Sensor-1 alarm inactive during waiting period (LED indicator is green permanently)▪ Sensor-1 monitoring temporarily deactivated

8.5.2 Sensor-1: Misuse-protection filter

Symptom	Cause and /or remedy
Misuse-protection filter does not work 👉 6.5.1.1	<ul style="list-style-type: none">▪ Misuse protection filtering is only enabled on selection switch position III▪ Misuse signal was not detected, because signal change was too short (plus < 5 seconds)


8.5.3 Sensor-2: Emergency-button

Symptom	Cause and /or remedy
Inverse operation function	<ul style="list-style-type: none">▪ Incorrect contact type 👉 9.12

8.5.4 Sensor-3: Technical alarm


Symptom	Cause and /or remedy
Sensor contact has been initiated, but alarm has not been passed on	<ul style="list-style-type: none">▪ Sensor-3 alarm inactive during waiting period (LED indicator is green permanently)

9. SPECIAL PROGRAMMING

- All parameters remain stored even if EasyAlarm® is switched off or battery has changed.
- Programming mode can be locked to secure against unintended programming during operation  5.5.1.
In that case on position PROG you will hear Programming deactivated: PIN
- Changing these parameters below does influence the operating mode. Therefore only necessary parameters should be changed. Please test behaviour before going into operation.




9.1 Ready/Modify profile

Value	Profile	Alarm units	Profile-Overview		
			User announcement	Connection time-out	Dialling-in
7	00	EA-8-DPX/EA-8-DPXM	Repeated every 5 second	1 minute	Directly
8	01	EA-8-DPXF/EA-8-DPXF	single	2 minutes	Directly
9	02	EA-8-DPXN (PLUS)	single	2 minutes	Two-step
10	03	EA-8-DPX/EA-8-DPXM	single	2 minutes	Directly
11	04	EA-8-DPX/EA-8-DPXM	Repeated every 8 seconds	2 minutes	Directly

Warning: After changing profile you have to activate factory settings as follows  9.2.


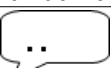

9.2 Factory settings (Default Value)

EasyAlarm® can be reset to default values:

OFF  ON PROG	Keep key 3 and # pressed simultaneously	OFF  ON PROG	Release both keys	„Profile“	OFF  ON PROG
--	---	--	----------------------	--	--

9.3 Alarm repetitions


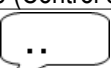

EasyAlarm® An alarm is triggered, as soon as the alarm criteria is fulfilled and the waiting period has expired. In some cases it might be useful to repeat an alarm as long until an acknowledgement is received:

OFF  ON PROG	* 9 7 1 3 5 3 # #		*	Value	#	OFF  ON PROG
--	--------------------------	---	----------	--------------	----------	--

Value	Info
0	EasyAlarm® calls calling numbers within the calling number sequence just once (Factory setting)
1..9	EasyAlarm® starts calling the calling numbers within the calling number sequence until the alarm is confirmed by sending 0 or until the programmed value n of alarm repetition is reached

9.4 Routine call interval

The delay between two routine calls to calling number 9 (Control centre / WinMOS) can be read out or modified as follows:


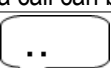

OFF  ON PROG	* 9 7 1 3 2 8 # #		*	Value	#	OFF  ON PROG
--	--------------------------	---	----------	--------------	----------	--

Value	Info
1..254	EasyAlarm® dials calling number 9 every 1..254 * 20 minutes. (Factory setting: 216 * 20 min = 4320 min = 72 h = call every three days)

9.5 Power failure


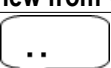

9.5.1 Power failure time-out

The duration of power loss before the alarm unit starts a call can be read out or modified as follows:

OFF  ON PROG	* 9 7 1 3 6 3 # #		*	Value	#	OFF  ON PROG
--	--------------------------	---	----------	--------------	----------	--

Value	Info
1..255	Duration in steps of 10 minutes (Deviation -0/+10 min) (Factory setting: 12 * 10 min = 120 min = 2 h.)

9.5.2 Calling number in case of power failure (new from version 8.45)

OFF  ON PROG	* 9 7 1 3 6 2 # #		*	Value	#	OFF  ON PROG
--	--------------------------	---	----------	--------------	----------	--

Value	Info
1	Alarm to standard calling-number sequence defined by * * 0 (Standard up to Version 8.44)
3	Alarm to calling number 9 (routine) (Factory setting from Version 8.45)

9.6 User announcement

The repetition time and type of announcements during the connection can be read or modified as follows:

OFF ON PROG	* 9 7 1 3 2 0 # #		*	Value	#	OFF ON PROG
Value	Announcement after triggering alarm an during misuse protection delay			Announcement during telephone connection		
0	Periodical announcement of the cause of alarm <div>Emergency call activated, you are about to be connected</div>			One time	<div>„Individual message“</div> <div>“Cause of alarm”</div> <div>Cause of alarm</div>	
1..200	(Factory setting: 0)			Periodical every 1..200 Sec.	<div>to stop press 0, to speak press 1</div> <div>Individual message</div>	
201..250				Periodical every 201..250 Sec.		
252				One-time		
253	Periodical announcement of the cause of alarm					
254	In case of an emergency call activated					
255	None *)			None *)		

*)

Battery error

 and

Power failure

 will be announced without exception.

9.7 Connection time-outs

9.7.1 Dial-up

The Dial-up time-out can be read out or modified as follows:

OFF ON PROG	* 9 7 1 3 5 0 # #	..	*	Value	#	OFF ON PROG
Value	Info					
1..255	Dial-up time-out in steps of 10 seconds (Factory setting: 12 * 10 s = 120 s = 2 minutes, Profile P02/P03/P04) (Factory setting: 6 * 10 s = 60 s = 1 minute, Profile P00)					

9.7.2 Hands-free connection

Connection time-out after receiving touch-tone

1

 can be read out or modified as follows:

OFF ON PROG	* 9 7 1 3 5 1 # #	..	*	Value	#	OFF ON PROG
Value	Info					
1..255	Time-out in steps of 10 seconds (Factory setting: 24 * 10 s = 240 s = 4 minutes)					

9.8 Dialling-in (remote access)

9.8.1 Number of ringing-cycles

The number of ringing cycles until EasyAlarm® answers the call can be read out or modified as follows:

OFF ON PROG	* 9 7 1 3 4 7 # #	..	*	Value	#	OFF ON PROG
Value	Info					
0	EasyAlarm® does not answer any call					
2..9	EasyAlarm® answers call after 2 to 9 ringing cycles (Factory setting: 2)					

9.8.2 Dialling-in sequence

Behaviour on dialling-in can be read out or modified as follows:

OFF ON PROG	* 9 7 1 3 7 0 # #	..	*	Value	#	OFF ON PROG
Value	Info					
0	Direct access ➡ 6.9.1 (Factory setting for Profile P00/01/03/04)					
1	Access in two steps ➡ 6.9.2 (Factory setting for Profile P02)					
10	Swiss speciality: "Connection hold time 2 minutes" in analogue PSTN. ➡ 9.10					

9.8.3 Connection mode after dialling-in

Connection mode after dialling-in can be read out or modified as follows:

OFF <input type="checkbox"/> ON PROG	* 9 7 1 3 7 1 # #	..	*	Value	#	OFF <input type="checkbox"/> ON PROG
---	-------------------	----	---	-------	---	---

Value	Info
0	After PIN-Code-entry ➡ Connection in service-mode ➡ Hands-free connection using DTMF 1 (Factory setting)
1	After PIN-Code-entry ➡ Connection directly in hands-free mode, indicated by three rings
2	After PIN-Code-entry or time-out 15s ➡ ➡ Connection in service-mode ➡ Hands-free connection using DTMF 1
3	After PIN-Code-entry or time-out 15s ➡ Connection directly in hands-free mode, indicated by three rings
5	Without PIN-Code-query ➡ Connection directly in hands-free mode, indicated by three rings

9.9 Remote programming

Remote programming of calling number/number sequence/individual message can be read out or modified as follows:

OFF <input type="checkbox"/> ON PROG	* 9 7 1 3 7 6 # #	..	*	Value	#	OFF <input type="checkbox"/> ON PROG
---	-------------------	----	---	-------	---	---

Value	Info
0	Remote programming disabled
1	Remote programming enabled (Factory setting)

9.10 Dialling delay for EA-8-DPXN

To ensure that EasyAlarm® can dial out, even if the line is already seized through a downstream telephone/modem, it separates the line before dialling out.

Swiss speciality: "Connection hold time 2 minutes" in analogue PSTN => If an incoming call is answered the pre-alarm time-out is extended (up to 120s) to assure that an alarm can be triggered.

OFF <input type="checkbox"/> ON PROG	* 9 7 1 3 2 4 # #	..	*	Value	#	OFF <input type="checkbox"/> ON PROG
---	-------------------	----	---	-------	---	---

Value	Info
0	No delay (Factory setting for Profile P00, P01, P03, P04)
1	Dialling delay activated (Factory setting for Profile P02 / DPXN+). In case of Swisscom-hold-up additional program registers * 9 7 1 3 7 2 # # to * 4 # * 9 7 1 3 7 0 # # to * 1 0 #

9.11 Sensor-1: Misuse-protection

Sensor 1 can be used two ways:

- On selection switch position II it will be used as alarm sensor
- On selection switch position III it is used to detect a change of door position (misuse protection)

9.11.1 Sensor-1 as alarm input

Sensor-1 activation results in a (selection switch on position II):

Alarm due to Sensor-1

OFF <input type="checkbox"/> ON PROG	* 9 7 1 3 5 6 # #	..	*	Value	#	OFF <input type="checkbox"/> ON PROG
---	-------------------	----	---	-------	---	---

Value	Info
21	Alarm if contact closes or signal is applied (Factory setting)
23	Alarm if contact opens or signal cease to apply

9.11.2 Sensor-1 as misuse-protection time-out

If the door contact changes within this time-out (Selection switch position III) an emergency call will be aborted => misuse protection. This time-out can be read out or modified as follows:

OFF <input type="checkbox"/> ON PROG	* 9 7 1 3 4 8 # #	..	*	Value	#	OFF <input type="checkbox"/> ON PROG
---	-------------------	----	---	-------	---	---

Value	Info
0	Misuse-protection inactive
1..255	Timer in steps of 1 second (Factory setting: 30) => Adjust to maximum time of cabin travel

9.12 Sensor-2: Emergency-button

The button must be floating (potential free), i.e. separate from the alarm horn contact. When you use the unipolar button of an existing installation use accessories EA-NT-IN 10.4.

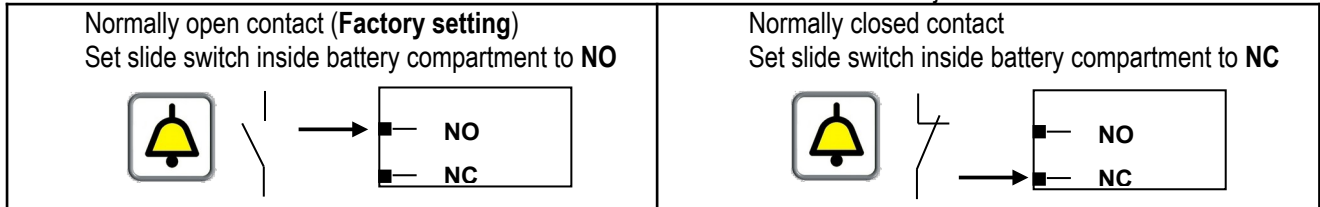
To verify contact type set function switch to **PROG** and enter *** * * ***.

When pressing button, you should hear **2 activated**, back to idle **2 deactivated**. Otherwise adjust contact type:

The setting of the jumper / switch is necessary for emergency operation powered from the telephone line, if battery and supply should fail simultaneously. In this mode EasyAlarm® can only call the first phone number, without any announcements. In case of wrong setting the permanently current may block the telephone line.

9.12.1 Contact type selection for new EasyAlarm® from Serial-number 90'000

For alarm units with serial-No. 90'000 ONLY the slide switch must be set Do NOT adjust software!



9.12.2 Software selection for EasyAlarm® up to Serial-number 89'999

For units up to serial-No. 89'999 you need to program appropriated value according table below and set slide switch slide/jumper. The emergency-contact type can be read or modified as follows:

OFF ON PROG	* 9 7 1 3 6 0 # #	..	*	Value	#	OFF ON PROG
Value 33	Info (Factory setting) Normally open contact from Serial-No. 57'100 to 89'999: Set slide switch inside battery compartment to NO		Value 35	Info Normally closed contact from Serial-No. 57'100 to 89'999: Set slide switch inside battery compartment to NC		
	from Serial-No: 50'000 to 57'099: Jumper on PCB away from speaker (left position)			from Serial-No: 50'000 to 57'099: Jumper on PCB towards speaker (right position)		

9.12.3 Activation time for emergency button

EasyAlarm® triggers an emergency call only if the button has been activated longer as certain time. This time can be read out or modified as follows:

OFF ON PROG	* 9 7 1 3 7 9 # #	..	*	Value	#	OFF ON PROG
-----------------	-------------------	----	---	-------	---	-----------------

Value	Info
1..255	Contact time in steps of 20 ms. (Factory setting: 50 * 20 ms = 1000 ms = 1 s)

9.13 Sensor-3: Technical alarm Alarm due to Sensor-3

Sensor-3 activation results in a

OFF ON PROG	* 9 7 1 3 6 1 # #	..	*	Value	#	OFF ON PROG
-----------------	-------------------	----	---	-------	---	-----------------

Value	Info
1	Alarm if contact closes or signal is applied (Factory setting)
3	Alarm if contact opens or signal cease to apply

9.14 Control sub-communication unit



9.14.1 EN81-70 lamps

The type of activation of the symbols can be read out or modified:

OFF <input type="checkbox"/> ON PROG	* 9 7 1 3 6 9 # #	..	*	Value	#	OFF <input type="checkbox"/> ON PROG
---	-------------------	----	---	-------	---	---

Value	Info
0	Yellow and green lamp/LED disabled.
2	Green lamp/LED must be activated manually during connection using 1 (Factory setting).
4	Green lamp/LED will be activated automatically during connection

9.14.2 Output LMK-OUT(-)

Configuration can be read out or modified:

OFF <input type="checkbox"/> ON PROG	* 9 7 1 3 3 7 # #	..	*	Value	#	OFF <input type="checkbox"/> ON PROG
---	-------------------	----	---	-------	---	---

Value	Info
208	Mode "Help is coming" lamp Activate "Help is coming" by sending 6 during connection. "Help is coming" will be switched off, by sending 4 during connection / when there is a change in door signal (S1) / if alarm remains unacknowledged / if there is a new alarm (i.e. emergency button pressed again) / after a periodical test!
216	New from software 8.45: same as 208 + additional "Help is coming" set with every received touch-tone command
193	Mode „Emergency call active“ => Connection to external building control system (Factory setting) The output „Emergency call active“ is switched on after misuse protection time-out. It is switched off, when there is a change in door signal (S1) / there is a new alarm (i.e. emergency button pressed again) / after a periodical test! / by sending 4 during connection
226	Mode „activated, if the alarm remains unacknowledged“ => e.g. DECT-Solution The output is switched on, when an alarm remains unacknowledged. The output switches off, when there are no more unacknowledged alarms / in case of a door status change (Sensor-1) / in case of an new alarm / periodical test / in case of a machine room communication

Hilfe
kommt

9.15 Background-Noise filter

In case of a loud background noise in the cabin (i.e. ventilator, train station..) you may activate BGN-function to improve hands-free communication:

OFF <input type="checkbox"/> ON PROG	* 9 7 1 3 3 5 # #	..	*	Value	#	OFF <input type="checkbox"/> ON PROG
---	-------------------	----	---	-------	---	---

Value	Info
0	BGN disabled (Factory setting)
103	BGN enabled (in case of intensive noise in the cabin)

9.16 Hands-free volume adjustment

The Hands-free volume of the alarm-unit can be read out or modified:

OFF <input type="checkbox"/> ON PROG	* 9 7 1 3 6 6 # #	..	*	Value	#	OFF <input type="checkbox"/> ON PROG
---	-------------------	----	---	-------	---	---

Value	Info
0..15	Attention! In case of hand-free communication problem try with low values at the beginning. With consideration to raise the volume level is adequate (8 as maximum) (Factory setting: 8)

9.17 DTMF optimization for mobile connections

To increase the success rate of data transmission using DTMF tones (WinMOS or other Routine receiver), it is recommended to adjust the tone duration as follows: Available from software version 8.39!

OFF <input type="checkbox"/> ON PROG	* 9 7 1 3 3 6 # #	..	*	Value	#	OFF <input type="checkbox"/> ON PROG
---	-------------------	----	---	-------	---	---

Value	Info (duration = (value-76) * 20msec)
80	Tone duration for land-line use 80msec (Version 8.39 up to 8.48) Factory setting
84	Tone duration optimized for the mobile network to 160msec (Factory setting from 8.49)

10. ACCESSORY

10.1 Machine room telephone(Art. No: 118.0120)

Cable: 3 m. Suitable for operation with EA-8-DPXM or EA-8-DPXFМ ⚡ 6.10

10.2 Sub-communication units

Housing material: ABS

10.2.1 EA.LMC-EC (Art. No: 118.0158)

Passive: Micro/Speaker and integrated EC-button (normally open)

Dimension: 114 x 58 x 21 mm (L x W x H), W incl. plug: 74 mm

10.2.2 EA-LMC70 (Art. No: 118.0155) / EA-LMC70-EC (Art. No: 118.0156)

Dimension: 114 x 58 x 21 mm (L x W x H), W incl. plug: 74 mm

EC: integrated EC-button (normally open)

10.2.3 EA-LMK70C (Art. No: 118.0160)

Dimension: 112 x 56 x 21 mm (L x W x H), W incl. plug: 74 mm

10.2.4 EA-LMK70C-WG (Art. No: 118.0161)

Same as 118.0160 but with IP54 protection using suitable drilling pattern

10.2.5 EA-LMK70T (Art. No: 118.016x)

Same as 118.0160 but including amplified audio-output for ..

Hearing-aid-loop (Set No: 118.0165)

Exciter (Set No: 118.0166)

10.2.6 LMK70-ATEX

10.2.6.1 ATEX-Barrier (Art. No: 121.0390)

Primary voltage: 8 to 35 V DC

Protection class: II (1) GD

[Ex ia Ga] IIC

45 x 118 x 138 mm (L x W x H)

10.2.6.2 Zone 0 (Art. No: 121.0370)

Protection class: II 1 G Ex ia IIC T4 Ga

112 x 56 x 22 mm (L x W x H). W incl. plug 74mm

10.2.6.3 Zone 20 (Art. No: 121.0380)

Protection class: Dust: Housing incl. button + EN81-70 symbols

II 1 GD Ex ia IIC T4 Ga

Ex ia IIIC T50 °C Da IP64

160 x 160 x 91 mm (L x W x H)

or 188 x 160 x 109 mm (L x W x H) incl. PG11 and button

10.3 Power supplies

10.3.1 Voltage converter EA-DCDC (Art. No: 100.0290)

PCB mounted in the battery compartment with connector 8 to 35 V DC / isolation 3kV including connection cable for emergency call button (article No: 118.0140)

10.3.2 DIN-adapter EA-ADC-USV (Art. No: 118.0117)

Primary voltage: 230 V +- 15% / 50 Hz

Secondary voltage: 14.3 V DC / 10 W

Dimension: 17.5 x 93 x 68.5 mm (L x W x H) / DIN-Rail 1 unit

10.3.3 DIN-adapter EA-DCDC-USV (Art. No: 118.0119)

Primary voltage: 9 to 35 V DC

Secondary voltage: 14.3 V DC / 10 W

Dimension: 17.5 x 93 x 68.5 mm (L x W x H) / DIN-Rail 1 unit

10.3.4 Uninterrupted power supply interface EA-NSG-CPU (Art. No: 100.0117CPU)

In combination with DIN-adapter 118.0117 or 118.0119 and a 12V-battery you get an uninterrupted power supply (UPS)

Primary voltage: 14.3 V DC i.e. from Art. No: 118.0117

Secondary voltage: 12 V DC for emergency light (max. 300 mA)

12 V DC for alarm unit (max. 500 mA)

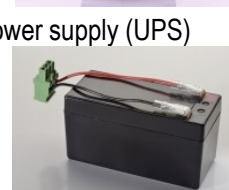
13.8 V DC Charging voltage for lead acid battery

Dimension: 53 x 90 x 32 mm (L x W x H) / DIN-Rail 3 units

10.3.5 Uninterrupted power supply USV-12V-IP-CPU (Art. No: 121.0117A)

Article-no: 100.0117CPU + 118.0117 + 100.0880 pre-mounted in IP65 housing

Dimension: 180 x 110 x 84 mm (L x W x H)



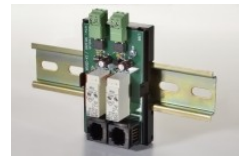
10.4 Emergency-button interface EA-NT-IN (Art. No: 100.0250A)

Alarm-input: 4.8 to 35 V DC / limited to 10 mA / Isolation: 1.5kV => (parallel to horn)
Output-switch: Contact NC or NO: max. 350 V/0.12 A (30 Ohm) => to plug X2



10.5 Misuse-protection interface EA-2DOOR (Art. No: 100.0260B)

Door-state-signals (2x): active 10 to 35 V DC, status LED
Dimension: 35 x 90 x 30 mm (L x W x H) / DIN-Rail 2 units



10.6 Emergency lights (Art. No: 100.087x)

10.6.1 LED-strip 10 cm (Art. No: 100.0870) self-adhesive

Suitable to transparent frames (100.0231) ↗ 3.2.1.2
Specification: 12 V DC +/- 15% / 0.8 W / 52 lm (16 cd 120°)
Dimension: 117 x 9 x 9 mm (L x W x H)



10.6.2 LED-strips 2 x 10cm (Art. No: 100.0873) self-adhesive

Like 100.0870, but 2 stripes for light upwards and downwards
Specification: 12 V DC +/- 15% / 1.6 W / 104 lm (16 cd 120°)
Dimension: (100+117) x 9 x 9 mm (L x W x H)

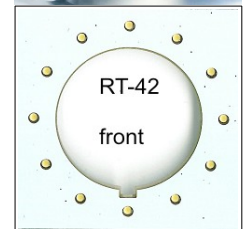


10.6.3 LED-screw (Art. No: 100.0872) / IP67

Specification: 12 V DC +/- 15% / 0.2 W / 4 lm (44 cd 20°)
Mounting: Screw M8 Cable: 25 cm

10.6.4 LED-Ring (Art. No: 100.0879)

Specification: 4 to 15 V DC / 1 W
Dimension: 52 x 52 x 6 mm (L x W x H)
Suitable to polycarbonate front panels (Art. No: 100.0211 / 0212 / 0213) in Rx42-gap ↗ 3.2.1.1



10.7 Telephone line interfaces

10.7.1 Alarm forwarding over mobile network / Gateway

Simulates the analogue telephone line for EasyAlarm® and is compatible with the protocols WinMOS ® 300 and Point ID.

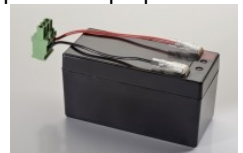
Notes:

- The antenna should be mounted in a fixed location (e.g. in the engine room), to ensure a stable reception situation.
- In the case of an retrofit (SNEL, ESBA), where no telephone wires in the hanging cables are available, the gateway can be mounted on top of the cabin, if the reception is ensured throughout the entire travel the elevator.
- If the coverage is inadequate or fails completely, the system must be placed out of service automatically, for example with a command "move to ground floor" send to the elevator control. For this purpose, the gateway includes a potential free relay contact (NO or NC).
- Beware of prepaid SIM: Where appropriate in the case of alarm, no funds are available. A postpaid or a prepaid with automatic reloading is preferable.

Connectors: 1 x Line (for i.e. alarm units EasyAlarm® / Exicall EN70 / MINI)
1 x permanent 12V-output for alarm units and horn
1 x switched 12V-output for emergency light
1 x Relay-contact ↗ Operation monitoring "System ready"
1 x SMA-antenna jack (patch sticking antenna included)

Status: reception level with LED

Backup: 12 V battery (e.g. Art. No: 100.0880)



10.7.1.1 EA-LTE-IP-GATW (Art. No: 100.0802BU) / EA-LTE-IP-LIGHT-GATW (Art. No: 100.0801BL)

Supply voltage: 230 V AC / 50 Hz
Dimension: 182 x 180 x 63 mm (L x W x H) / protective housing IP65



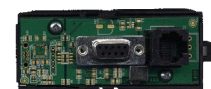
10.7.1.2 EA-LTE-DIN-GATW (Art. No: 100.0812BL) / EA-LTE-DIN-LIGHT-GATW (Art. No: 100.0811BL)

Supply voltage: Art. No: 1AC.0812B: 230 V AC / 50 Hz (incl. Art. No: 118.0117)
Art. No: 1DC.0812B: 9 – 35 V DC (incl. Art. No: 118.0119)
Dimension: 45 x 118 x 135 mm (L x W x H) / DIN-Rail
add 17.5 x 93 x 68.5 mm for DIN-adaptor



10.7.1.3 RDT Remote-Data-Transmission modules for 100.802BL or 100.0812BL

Data-Module: Art. No: 100.0850: DB9 for compatible elevator controls
Art. No: 100.0851: Mini-USB for compatible elevator controls
Dimension: 35 x 90 x 30 mm (L x W x H) / DIN-Rail 2 units



10.7.2 DECT-Interface

DECT-Interface for wireless connection between cabin and machine room , when there is no hanging cable available for telephone line.



10.8 Fire-brigade communication EN81-72

Cabin 6.11: Art. No: EA8 DPXM LMK70C-WG
(Alarm unit EA-8-DPXM + sub-communication unit LMK70C-WG)

10.8.1 Remote-communication unit (Art. No: 118.0202E): Flash mount

Fre-brigade entry (hands-free) / Alternative design 10.8.3.

10.8.2 Multi floor communication unit (Art. No: 118.0204E): Flash mount

Machine room / additional floors (push-to-talk) / Alternative design 10.8.4.

10.8.3 Remote-communication unit (Art. No: 118.0212E): Surface mount

118.202E mounted in protective housing IP54 incl. Talk-button and symbols.

10.8.4 Multi floor communication unit (Art. No: 118.0214E): Surface mount

118.204E mounted in protective housing IP54 incl. Talk-button and symbols.

10.8.5 Multi floor communication unit/timer (Art. No: 118.0215E): Surface mount

In the machine room like 118.0214E including adjustable timer module



10.9 Protective housing EA-IP-EN70-EC (Art. No: 100.0730)

IP54-housing for sub communication units 10.2 incl. Emerg.-button.

10.10 Protective housing for EasyAlarm® EA-IP-BOX (Art. No: 100.0700)

EA-IP-BOX with transparent lid protects alarm unit up to IP65.

The internal EasyAlarm® microphone must be disabled to avoid feedback.

10.11 Lightning protection interface (Art. No: 100.0328)

Protects the telephone input of EasyAlarm® from voltages higher than 150 V and filters ADSL signals. The interface is also a distributing adapter for connecting a machine-room telephone (MR-phone) or the remote communication unit.

Dimension: 90 x 52 x 30 mm (L x W x H) / DIN-Rail 3 units

Connectors: RJ12 and screw terminals



10.12 Routine call management (portal.leitronic.ch)

Leitronic offers a web-based solution to monitor the devices according to EN81-28. With a login from Leitronic AG you will be given the opportunity to:

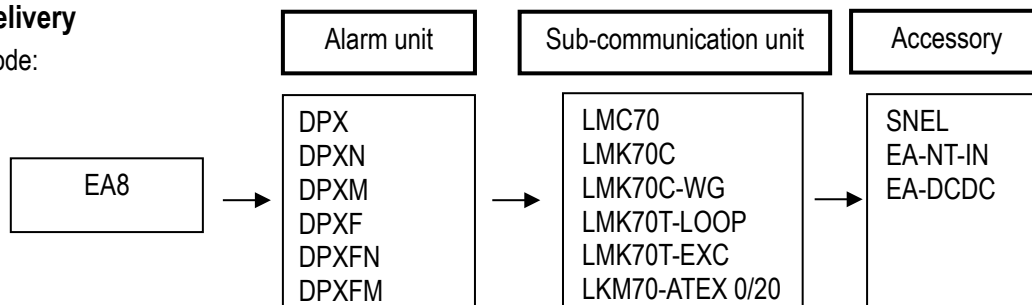
1. manage routine call (every 72 h according to EN 81-28)
2. programming EasyAlarm® EXICALL & EN70 & Nano & Mini
 - Calling number
 - PIN-Code
 - Dialling-in / Remote access
 - Routine call interval

LEITRONIC AG													
Home Elevators (alpha) Devices History Settings													
Home													
Bad Devices Showing 1-6 of 6 items.													
Company	Ri	Action	CI	SI	PI	Incoming No	PIN	Device Type	Description	Last routine call	EC	Com	Next routine call expected at
Leitronic AG	-		1	0	0	0566484041	0000	EA-8/EA-40	-	-	-	-	-
Leitronic AG	-		1	0	0	0566484046	1234	Exicall EN/EN70	-	2017-06-06 10:10:24	0	0	09.06.17 10:10
Leitronic AG	-		1	0	0	00467190006119251	0000	EA-8/EA-40	Test SIM Tog	2017-07-03 16:14:12	0	0	03.07.17 16:15
Leitronic AG	56		1	1	0	0794180940	1010	Nano	-	2017-06-28 10:40:06	0	100	01.07.17 11:40
Leitronic AG	-		1	0	0	0762038581	1010	EA-8/EA-40	-	2017-07-07 11:34:59	50	0	10.07.17 11:34

11. CONTENTS OF DELIVERY / SPECIFICATION

11.1 Contents of delivery

Depending on ordering code:



Alarm unit: EA-8-DPX, EA-8-DPXN, EA-8-DPXM, DPXF, DPXFN or DPXFM

Voice announcement: German, French, English, Italian. Other languages on request.

Sub-communication unit: LMC70 Art. No: 118.0155

LMK70C Art. No: 118.0160

LMK70C-WG Art. No: 118.0161 water resistant IP54

LMK70T-LOOP Art. No: 118.0165 Set: LMK70T + Hearing aid loop

LMK70T-EXC Art. No: 118.0166 Set: LMK70T + Exciter :

LMK70-ATEX 0 Art. No: 121.0370 LMK70-ATEX Zone 0 + Art. No: 121.0390 ATEX-Barrier

LMK70-ATEX 20 Art. No: 121.0380 LMK70-ATEX Zone 20 + Art. No: 121.0390 ATEX-Barrier

Accessory: SNEL Art. No: 100.0277

EA-NT-IN Art. No: 100.0250

EA-DCDC Art. No: 100.0290 Supply from 8 to 35 V DC in battery compartment

Cables: Standard 3 m (other length on request 0.5 m, 1.5 m, 5 m)

11.2 Specification

Changes to product and performance can be made at any time without announcement..

11.2.1 Alarm units EasyAlarm® EA-8-DPX (Art. No: 101.0220)

Primary voltage: 9 to 16 V DC (over EXT/≈ jack)

Backup: 9 V-Battery (Alkaline: Typical 70 hours)

Emergency operation: Alarm with telephone line powering.

Consumption: Standby: 7 mA (typical)/during announcement up to 80 mA

Housing material: ABS

Dimension: 200 x 110 x 31 mm (L x Ex H)

Weight: 320 g without battery

Telephone cable: RJ12 3 m incl. (other length on request 0.5 m, 1.5 m, 5 m)
on request (RJ12 to country specific telephone adapter)

Dialling: DTMF (Touch-tone)

11.2.2 Alarm units EasyAlarm® EA-8-DPXN (Art. No: 101.0230)

Same as EA-8-DPX with additional telephone output:

➡ Downstream telephone/modem will be disconnected in case the alarm unit has to dial out.

➡ Downstream telephone/modem is connected to the PSTN if the alarm unit is in standby mode.

11.2.3 Alarm units EasyAlarm® EA-8-DPXM (Art. No: 101.0260)

Same as EA-8-DPX with integrated machine room interface 6.10

➡ If the machine room telephone is off-hook you get instant hands-free communication into the cabin. A external line (to PSTN) can be selected by sending touch-tone 0.

➡ The telephone/modem will be disconnected in case the alarm unit has to dial out.

Consumption: Standby: 20 mA (typical)/during announcement up to 100 mA

11.2.4 Alarm units EasyAlarm® EA-8-DPXF (Art. No: 101.0240)

Same as EA-8-DPX but incl. serial interface to communicate with a Liftronic elevator control. Sensor-3 not usable.

Primary voltage: 9 to 16 V DC (over Liftronic-Interface)

11.2.5 Alarm units EasyAlarm® EA-8-DPXFN (Art. No: 101.0243)

Same as EA-8-DPX with additional telephone output:

➡ Downstream telephone/modem will be disconnected in case the alarm unit has to dial out.

➡ Downstream telephone/modem is connected to the PSTN if the alarm unit is in standby mode.

11.2.6 Alarm units EasyAlarm® EA-8-DPXFM (Art. No: 101.0246)

Same as EA-8-DPXF but with integrated machine room interface: 6.10.

12. WARRANTY

Dear customer

Each EasyAlarm® is manufactured and tested according to stringent quality rules. If the unlikely case should happen, that due to a manufacturing error the product is malfunctioning, Leitronic AG will guarantee in addition to your sales distributor warranty of repairs without any labour or material costs for 2 years after date of purchase.

Warranty is only granted, if the unit has been used as described in the instruction manual.

Warranty will not be given under following circumstances:

- If there is no invoice or receipt with date of purchase, vendor's name and serial number.
- These documents have been changed or modified.
- If serial number on type label has been changed, cleared, removed or modified in any way.
- If any repair, modification or other adaptation has been carried out by an unauthorized person or company.
- Damage due to tampering with device.
- Damage due to external influence (lightning, water, fire and so on).

Please contact Info-Line +41 (0)56 648 40 40 before sending out units because normally there are no faulty units but misinterpretation of the behaviour or programming errors!



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Engeloostr. 16
CH-5621 Zufikon
Tel. +41 (0)56 648 40 40
www.easyalarm.ch
leitronic@leitronic.ch



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Tel +49 (0)7571 722-51
www.ws-schaefer.de
info@ws-schaefer.de

13. DRILLING PATTERN



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Declaration of conformity

Declaration of Conformity

Manufacturer's Name:

Leitronic AG

Manufacturer's Address:

Engeloostrasse 16
CH-5621 Zufikon
Switzerland
www.leitronic.ch

Product Name:

EasyAlarm ELEVATOR
EXICALL EN70
MINI
LMK72
NANO

Model Number:

EasyAlarm	101.0220 to 101.0260
EXICALL EN70	121.5101 to 121.5109
MINI	100.0920 to 100.0929
LMK72	118.0201 to 118.0209
NANO	100.0900 to 100.0919

We herewith declare that the components supplied under the aforementioned order number meet the following EC Directives

EMC:

2014/30/EU

RoHS 2:

2011/65/EU

Standards applied

Safety (Article 3.1a):

EN 60950-1:2006+A11:2009
+A1:2010+A12:2011

EMC (Article 3.1b):

EN 12015:2014
EN 12016:2013

Safety rules for the construction and installation of lifts

EN81-28:2018

- Lifts for the transport of persons and goods

Part 28: Remote alarm on passenger and goods passenger lifts

Safety rules for the construction and installations of lifts

EN81-70:2017

– Particular applications for passenger and goods passenger lifts

– Part 70: Accessibility to lifts for persons including persons with disability;

Safety rules for the construction and installation of lifts

EN81-72:2015

- Particular applications for passenger and goods passengers lift

- Part 72: Firefighthers lift

EasyAlarm/ EXICALL EN70 / MINI / LMK72 only

Supplementary Information

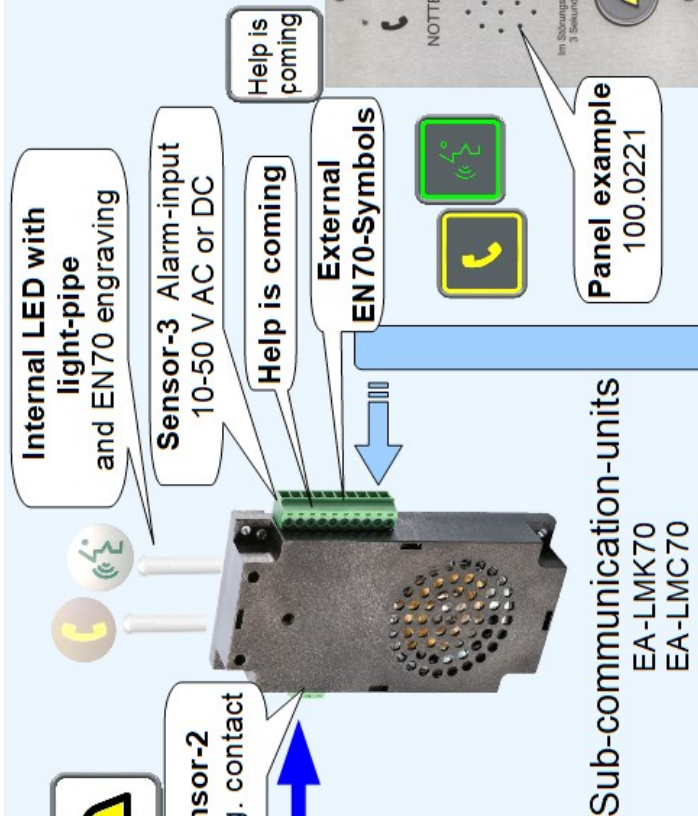
The product herewith complies with the requirements of the following Directives and carries the CE marking accordingly 2014/30/EU:

Zufikon, 11. Februar 2019

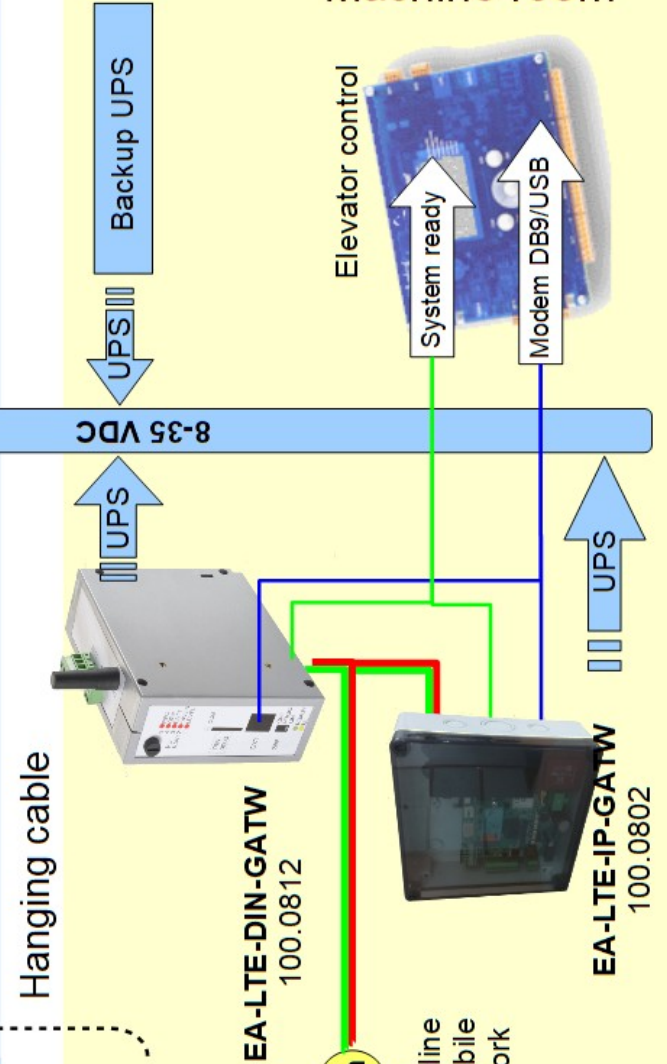
Silvan Tognella



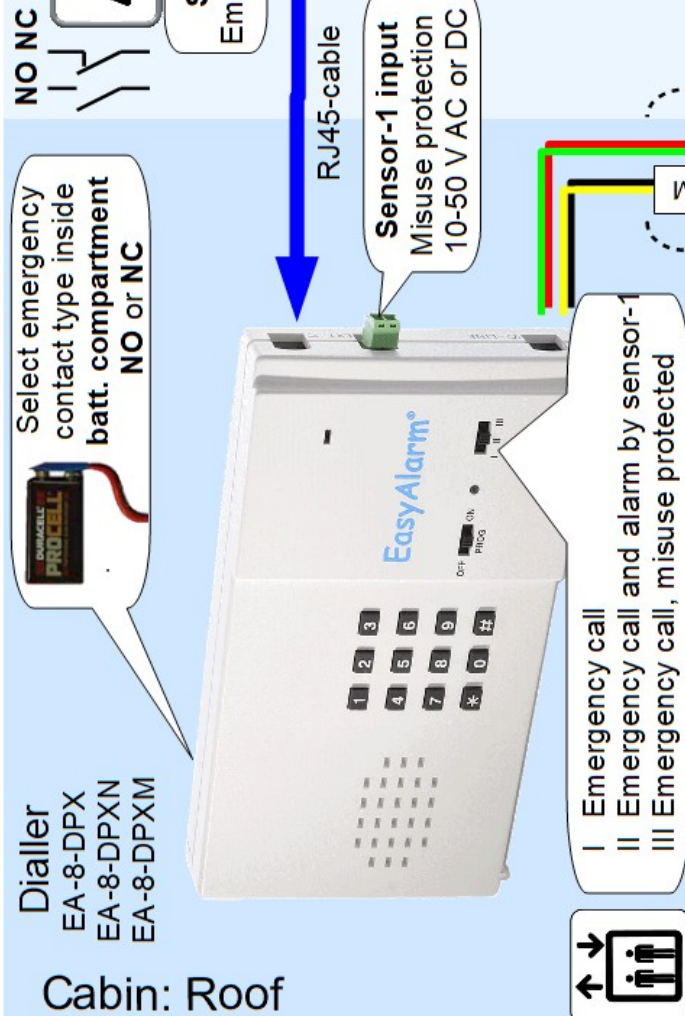
Cabin: Panel



Machine room



Hanging cable



Remote-units

