INNOVATION THAT ELEVATES

Lift Alarm with Rechargeable Battery

Installation Manual



Revision A · November 2026 · Draft

Elevator Equipment Limited
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For use by competent lift engineers and qualified electricians only. Read the safety section before starting work.

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PLEASE READ THESE INSTRUCTIONS BEFORE STARTING INSTALLATION AND KEEP THEM FOR FUTURE REFERENCE.

Safety warning

These warnings are provided in the interest of safety. You must read them carefully before installing or using this equipment.

- All installation and servicing must be done by a qualified electrician or other competent person.
- It is dangerous to alter the specification or modify the product in any way.
- Make sure these instructions are passed on to the end user.
- The lift alarm is designed for indoor, dry conditions and must not be exposed to rain, dripping water or flooding, such as in a wet lift pit.
- Operate only between 0 and 60 °C and 10 to 80 % relative humidity. Do not mount near heat sources or on highly flammable surfaces.
- The internal lithium-polymer battery keeps the low-voltage circuit live after the mains is switched off. Unplug the battery before working on the PCB.
- Do not short-circuit, puncture, crush or heat the battery. Do not use a battery that is swollen or damaged, and dispose of it as hazardous waste.
- The sounder is louder than 110 dB. Wear hearing protection when testing at close range and warn people nearby before testing.
- Never apply any voltage to the TST (push-button) terminals.

Warning instructions

⚠ ISOLATE THE MAINS AND UNPLUG THE BATTERY BEFORE OPENING THE LID.

⚠ NEVER CONNECT A LIVE CONTACT TO THE TST TERMINALS.

⚠ DO NOT INSTALL WHERE THE UNIT CAN GET WET.

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Technical specification

Lift alarm unit

Parameter	Value
Power supply	230 V AC, [50 Hz — confirm]
Power consumption	0.12 W idle, 2 W while charging
Sounder	Piezo, over 110 dB, 12 V DC, 0.18 A
Visual indicator	Red LED, lit steadily while the alarm sounds
Device protection	Fused mains input, mains overvoltage, over-temperature
Operating temperature	0 to 60 °C
Operating humidity	10 to 80 % RH
Dimensions (W × D × H)	160 × 110 × 75 mm [confirm]
Weight	410 g
Markings	CE, UKCA

Battery and backup

Parameter	Value
Battery type	3.7 V lithium-polymer
Battery capacity	900 mAh [confirm — 1 Ah also quoted]
Charger	Isolated CC/CV, 4.2 V, 0.1C charge rate
Recharging time	[Approx. 10 hours — confirm]
Backup time	5 hours with the alarm sounding continuously
Battery protection	Over-discharge, overcharge, short circuit

NOTE: The battery charges only while mains is connected. If the mains fails, the alarm keeps working from the battery until it is drained to a safe level, then switches off to protect the battery.

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Installation instructions

1. Mounting the alarm unit

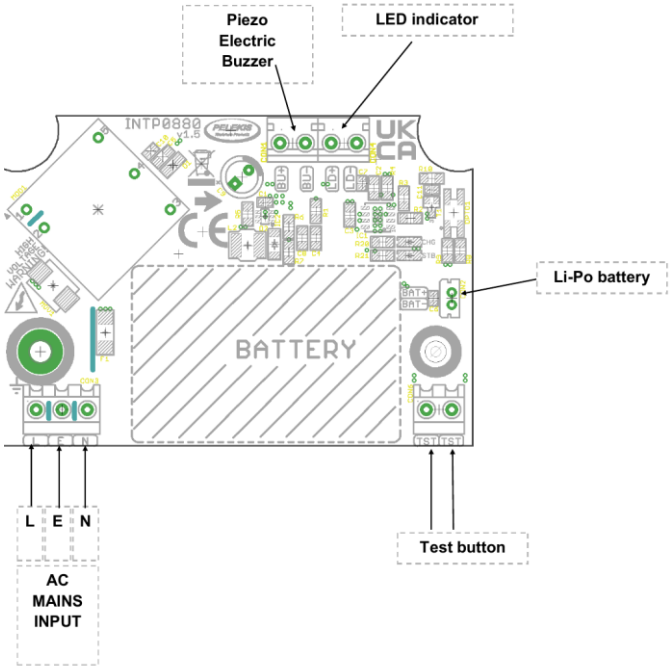
Mount the alarm where it will be heard by someone able to respond, for example at the main landing, reception or a staffed area [confirm intended location].

1. Isolate the supply circuit and lock it off.
2. Hold the unit level at the planned position with the cable glands facing down, and mark the bracket fixing holes.
3. Drill and plug the wall, then screw the bracket securely in place.
4. Remove the four corner screws and lift the lid carefully. The sounder and LED stay wired to the PCB, so do not pull on their leads.
5. Feed the mains cable through one gland and the push-button cable through the other, then tighten both glands.

> **NOTE:** Do not drill the enclosure or add extra cable entries. Mounting with the glands facing down stops water running into the unit along the cables.

2. Wiring the alarm

Connect the cables to the PCB terminals as shown in the drawing below. The sounder, LED and battery are connected at the factory.



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Terminal	Connect to
L, E, N	230 V AC supply: live, earth, neutral
TST, TST	Alarm push button (volt-free, normally open contact)
BAT+, BAT−	Internal battery (factory fitted plug)
Buzzer and LED	Sounder and red LED in the lid (factory wired)

3. Connecting the supply

Feed the unit from a circuit protected by a [6] A MCB with 30 mA RCD protection and a lockable isolator labelled “Lift alarm”. Connect the incoming 230 V AC mains supply to the terminals:

Supply	Terminal
Live	L
Neutral	N
Earth	E

1. Connect the two cores from the push button to the two TST terminals.
2. Check the battery plug is fully home in the BAT+/BAT− connector.
3. Refit the lid with its four screws, without trapping any wires.
4. Label the distribution board circuit and the alarm unit.

NOTE: The battery needs [approx. 10 hours] on mains to charge fully before the alarm can give 5 hours of backup.

How to test

1. Warn people nearby, then switch the power on.
2. Press and hold the alarm push button. The sounder should sound and the red LED should stay lit.
3. Release the button. The sounder and LED should both stop.
4. Check the alarm can be clearly heard at the agreed response point.
5. To test the battery backup, once the battery has charged fully, switch the mains off at the isolator and press the button again. The alarm should still sound. Restore the supply.

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Problem	Possible cause and solution
No sound or light when the button is pressed	The supply may be off and the battery flat, or the button, its cable or the TST connection may be faulty. Check the supply, then check the button and cable for continuity.
The alarm sounds but the LED does not light, or the LED lights but there is no sound	The LED or sounder lead may be loose or the part faulty. Isolate, unplug the battery and check the connection, then contact EEL technical support.
The alarm sounds without the button being pressed	The button cable may be short-circuited or the button stuck closed. Disconnect the cable from the TST terminals; if the alarm stops, repair the cable or button.
The alarm stops working during a power cut	The battery may not be fully charged or may be at the end of its life. Allow it to charge fully, and replace it if it does not give the rated backup.
The battery is swollen or damaged	Isolate, unplug and replace the battery. Dispose of the old one as hazardous waste.
The RCD trips or the unit has no mains	There may be moisture, damaged insulation or a blown internal fuse. Isolate, check the unit is dry, test the supply cable and contact EEL technical support.
The unit stops working in a hot location	The over-temperature protection has operated. Let the unit cool and move it if the area goes above 60 °C.

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Appendix A — Commissioning record

Field	Entry
Site address	
Lift identification number	
Alarm unit location	
Push button location	
Circuit reference and protective device	
Insulation resistance (MΩ)	
RCD trip time (ms)	
Alarm sounds and LED lights on mains	Yes / No
Alarm stops when button released	Yes / No
Audible at the response point	Yes / No
Backup tested on battery	Yes / No / Due on (date)
Installed by (name, company)	
Date	
Signature	

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Appendix B — Warranty and support

The EEL Lift Alarm is covered by a [One]-year warranty from the date of installation, provided it is installed and maintained in line with this manual.

- Address: EEL, Unit A Gorse Hill Industrial Estate, 109-111 Boston Road, Leicester, LE4 1AW
- Technical support: 0116 2662241
- Email: sales@elevatorequipment.co.uk
- Website: www.elevatorequipment.co.uk