digicom

B810 GROUP

DISCOVER OUR
LIFT SOLUTIONS

LIFT

Products and Services Catalogue of Digicom

B810 Group

Corporate Profile

A company with more than 40 years experience in designing and dealing with highly technological products.
In 2017 it enters B810 Group, giving rise to a cutting-edge company, able to cope with extremely complex projects.

Today we offer our experience in a complete range of "**Connectivity Solutions**" in the fields of: *IoT, Lift, Telecommunications and Telematics*, governing project design, manufacturing, logistics and services.

"Digicom's main goal is to understand the needs of people and businesses, conceiving "connected solutions" that guarantee, greater safety, reliability and comfort."

Massimiliano Paparcone
B810 GROUP CEO

ISO/TS **16949:2009**

CERTIQUALITY

CISQ
AUTOMOTIVE

CERTIFIED
IQNet
MANAGEMENT SYSTEM

SISTEMA DI GESTIONE
QUALITÀ CERTIFICATO

40	**250+**	**15.000**
Years of experience	Staff	Square meters of facilities
3	**40+**	**2**
R&D Departments	R&D Staff	Productive Units

BUSINESS UNITS
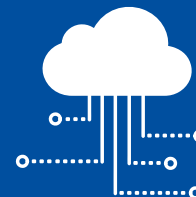
INDUSTRY	IoT SOLUTIONS	LIFT

Technologies we govern

5G Ready

Digicom is ready for the next generation of mobile network. Our approach is *"Use new technologies when applications and market scenario require it!"*.
Especially for this revolutionary technology it is necessary that coverage will be more advanced and engine will be available at right price. We continue monitoring this status.
We are Ready to start!

4G / 3G / 2G

3GPP standard wireless technology based on frequencies from 800 MHz to 2.7 GHz. The devices do use base stations cellular networks (LTE/3G/2G).

BLE

Bluetooth Low Energy (BLE) is a standard wireless technology today at its 5.0 version.
It is used to interface devices (wearable too) and sensors via APP. The low energy consumption allows to have several years of rechargeable battery lifetime.

GNSS • GPS

It's a satellite-based navigation system that is used to pinpoint the geographic position and time of a user's receiver anywhere in the world.
Other GNSS systems are the Russian GLONASS, the European Galileo.

NB-IoT

NB-IoT devices use a coverage network based on dedicated base stations (LTE). Low consumption and low reception levels make this technology one of the most suitable in the Internet of Things applications.

Ultra Low Power

Technologies able to reduce the devices' power consumption. With appropriate battery types, can extend the life of devices up to years (more than 10). Ultra low power management allows to create a totally new generation of devices connected to the Internet.

868 MHz Radio

Radio frequency defined for telemetry, remote control, alarms and water metering applications.
Used for sensors (IoT), smart homes and remote control. Low consumption and medium distance range make this radio technology one of the most popular.

MESH Netwoks

Technologies for the creation of devices networks (typically IoT sensors) to deploy the coverage with low impact and low costs.
The Mesh network can include sensors, repeater and concentrators. An application example is the heating costs allocation.

169 MHz Radio

Radio frequency defined for Gas Smart.
Meters and Concentrators do use this frequency for Gas consumption remote reading as an alternative to GSM.

Digicom **Lift**

This business unit is the core of communication solutions for the lifts of the future. Technological products for the protection of personal safety in the lift and for Internet connection (IoT).

Gateways, Dialers, Routers are the key elements in the lift of the future ecosystem, for vertical mobility, where devices communicate to each other, to be always efficient and to optimize maintenance (Predictive Maintenance).

| 4G/3G/2G | Voice | NB-IoT | Sensors | Remote Camera | Made in Italy |

"With our connected and intelligent lift solutions, you enter the third dimension of smart cities."

4G LIFT ROUTER

*The new concept of Lift is represented by a technological HUB where all the needs of the Lift ecosystem converge.
Emergency telephone systems, Displays, Sensors and Cameras will be shared in a single device able to connect also the frame controller to a Cloud.*

4G Lift Router has been developed combining all Digicom technologies and experiences gathered over the years in the Lift industry.

A single SIM is enough to manage all the needs of the lift: from voice support for SOS and periodical calls to telemetry of the frame controller through LAN.

The perfect solution that connects all lift devices with a single SIM card.

Full voice support to connect any emergency phone, using the FXS analog voice port.

Ready to support next challenges on mobile network infrastructure as VoLTE.

Easy configuration via Web interface with an SMS for remote diagnostics.

8D5860

- 3 LAN ports 10/100
- 1 WAN port 10/100
- OpenVPN support
- Periodic reboot
- 1 FXS voice port
- SMS management
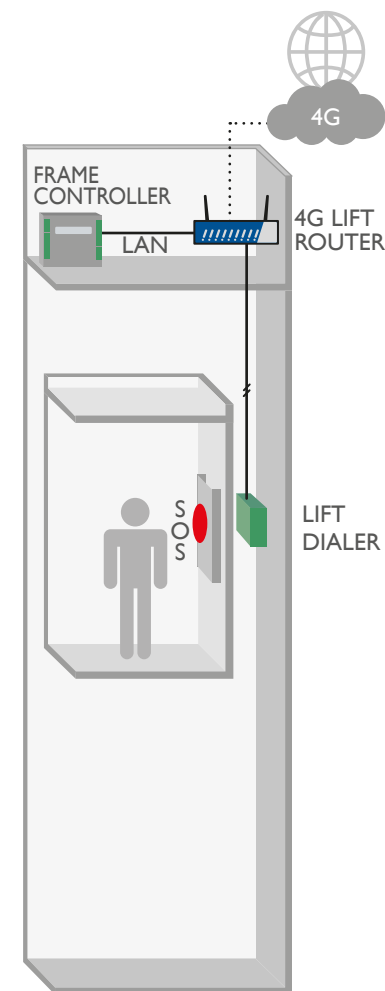- MQTT for Cloud management

4G/3G/2G

Voice

Open VPN

4 LAN port

Backup battery

Made in Italy

4G LIFTGATE
IoT Gateway

*The revolution on Lift predictive maintenance needs new generation devices able to connect the Lift to the Cloud.
A new ecosystem, made of sensors, artificial intelligence, cloud-based applications, focused to maximize efficiency, availability, cost reduction, and customer satisfaction.*
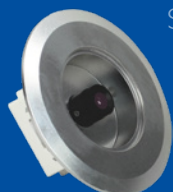
The new 4G LiftGate has been developed combining all Digicom technologies and experiences gathered over the years in the Lift industry.

A single device is able to manage all the needs of the lift: from voice support for SOS and periodical calls to telemetry of the frame controller through LAN or serial port.

Cameras and wireless sensors can be connected for IoT management on the Lift (EEIoT) allowing predictive maintenance based on real operations or on immediate reporting of anomalies.

4G/3G/2G	BLE 4.0	Wi-Fi
Voice	Backup battery	Made in Italy

Sensors

Remote Camera   Wireless Smoke   Wired Water
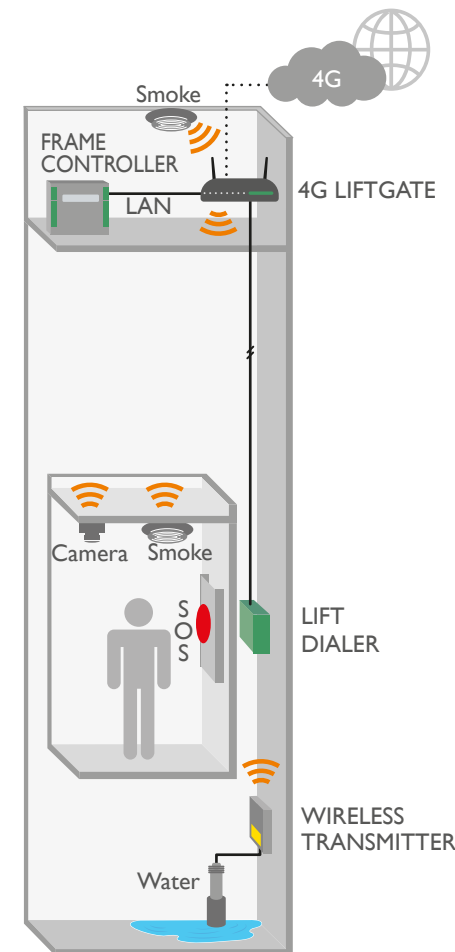
8D5893 - 4G LIFTGATE 3000
- 1 LAN ports 10/100
- 1 FXS voice port
- 1 RS232/485 serial
- 1 Input
- 1 Relè output
- 868 MHz radio interface for sensors
- BLE 4.0 for local configuration via APP

3G GATEWAY IoT

Today lift communicates, informs and talks to us like the most modern means of transport. Sensors and IoT devices that always guarantee a perfect efficiency!

8D5824IoT

3G/2G

Voice

Remote Camera

Sensors

Backup battery

Made in Italy

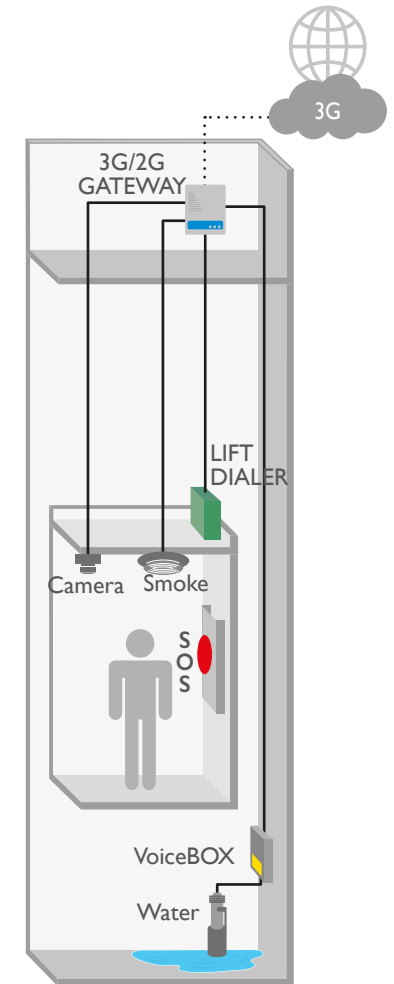A new generation of Gateways that brings lifts to Cloud platforms.

It is able to manage all the needs of new lifts and of EEIoT (Elevator, Escalator IoT). From Voice Alarm Call (SOS) to periodical checks (72H) and Telemetry up to new sensors, all managed by a sole device easy to install.

A performing 3G engine with the support of 5 frequency bands allows its use worldwide.
In addition to the voice interface (FXS) it has a serial interface (RS485) for the management of the frame controller.

A remote camera is available to receive images of the cabin while alarm calls are in progress, to check the status of trapped people avoiding false alarms.
A new range of sensors will monitor the status (e.g. water in Pit) and the use to plan maintenance based on real need.

Sensors

Remote Camera

Wired Smoke

Wired Water

3G

3G/2G GATEWAY

LIFT DIALER

Camera   Smoke

SOS

VoiceBOX

Water

- UMTS/GPRS/GSM universal Gateway
- Integrated rechargeable backup battery
- Remote Camera management
- Sensor management
- EN 81-28 and EN 81-20 compliant

3G/2G GATEWAYS

Our Gateways simulate the PSTN line ensuring the maximum compatibility with the several devices of SOS alarms.

The TCP/IP stack and the M2CC protocol, integrated on all the Gateways, make them ready for the remote management via Internet, allowing the development of innovative solutions.

3G LIFT 72H

3G LIFT 72H is a communicator with embedded 3G UMTS interface, for the connection of a remote alarm system through a voice port (FXS).
Equipped with an integrated backup battery, it manages the audio in "digital" voice quality.
With M2CC protocol for the management of the periodical and SOS call via Internet Protocol (IP).
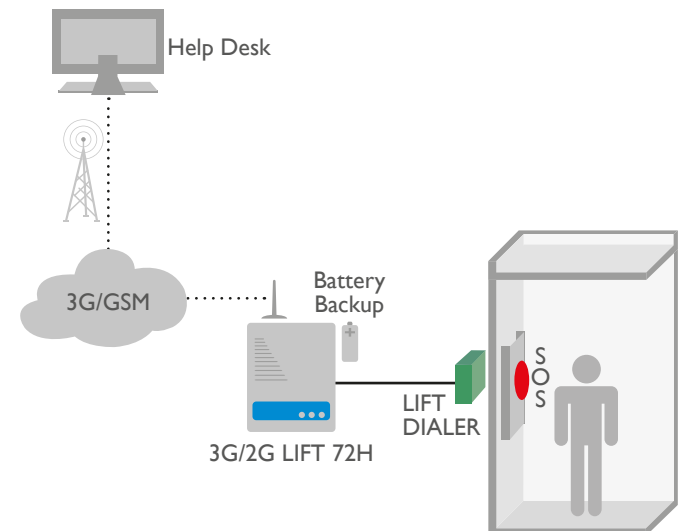Remote upgradable through 3G or 2G connection (FOTA).

8D5824

- 3G / UMTS Penta-Band universal Gateway *(3G version only)*
- 2G / GSM / GPRS Quad-Band universal Gateway
- Integrated rechargeable backup battery
- FXS voice port
- EN 81-28 and EN 81-20 compliant

2G LIFT 72H

2G LIFT 72H is a universal GPRS/GSM communicator, ideal to connect to any remote alarm system through the FXS analog port that simulates a PSTN telephone line using the GSM network.
Equipped with an integrated backup battery, it manages the audio in digital mode reducing the distortions at the minimum, with a high voice quality.
It supports M2CC protocol for the management of the periodical and SOS call via TCP/IP. Remote upgradable through GPRS connection (FOTA).

8D5799

Help Desk

3G/GSM

Battery Backup

LIFT DIALER

3G/2G LIFT 72H

S O S

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TELEMETRY AND MANAGEMENT

Telemetry increases the lift safety.
Continuous data monitoring and remote control reduce the response time in case of problems or stops.
Periodical maintenance based on use increases the system reliability.

One single device can be used for SOS call and for Telemetry, saving costs.
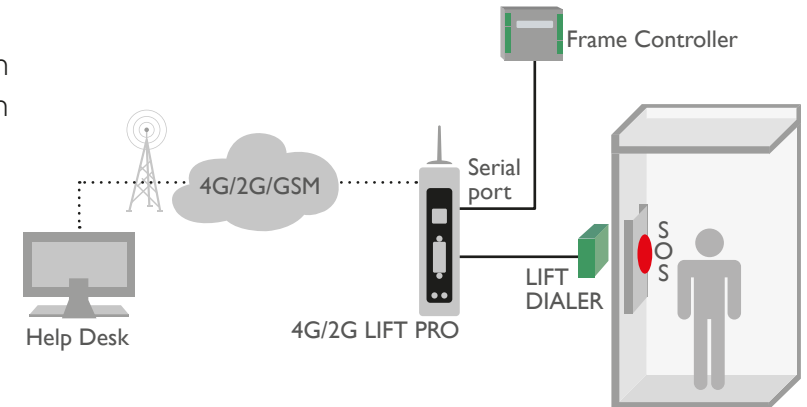
4G LIFT PRO

8D5895

The new version of Gateway with 4G engine and serial ports (RS232 or RS485) for remote control and maintenance. A compact DIN mounting case for installation in lift control panel.
4G Lift Pro has an FXS voice port to connect to the emergency phone.
The internal backup battery guarantees the operation also in case of electrical blackout compliant with EN 81-28.

- 4G / 2G GSM universal Gateway *(4G version only)*
- 1 RS232 serial port
- 1 RS485 serial port
- 1 FXS voice port
- Internal backup battery
- EN 81-28 and EN 81-20 compliant

2G LIFT PRO

8D5895A

It is a universal device for the connection to any elevator alarm system.
The FXS port simulates a PSTN – Telecom line using the GSM network instead of the wired line with a considerable costs saving.
2G Lift Pro integrates also an RS232 or 485 serial port to connect to the Frame Control Board of the lifts and to manage the telemetry data.

With these data it is possible to schedule all the predictive maintenance in order to guarantee the full operativity of the lift.

GATEWAY / ROUTER

IoT SENSORS

REMOTE ALARM

Efficent Ecosystem

Mobility Innovation

Reliable Connections
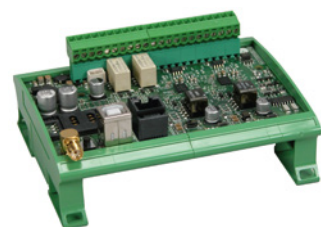
Real-time Information

Improved Security

Predictive Maintenance

4G/2G
LIFT DIALER

Emergency Telephone Systems with embedded 4G or 2G engine.

Easy installation through smartphone APP.

Digital Voice Quality and 2 wires only connection with the VoiceBoxes are the main features of this products line.
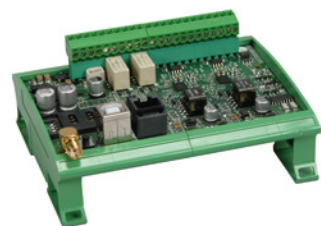
4G LIFT DIALER

The new Lift Alarm System with 4G engine perfect for lift modernization or new installation.

4G Lift Dialer is mounted in the frame controller and configured via standard DTMF tones or using the smartphone APP. Equipped with an RS232 serial port for the telemetry of the frame controller. The firmware can be remotely upgraded.

8D5896

- Connection to Voice Boxes speakerphone with 2 wires only
- BLE 4.0 interface for setup
- Backup battery optional
- DIN Rail kit included
- EN 81-28 and EN 81-20 compliant

2G LIFT DIALER

It's the core of the Lift Alarm System that can be used both for new installations and modernizations.

The typical installation is in the frame controller.

Equipped with an RS232 serial port for the telemetry of the frame controller. The configuration can also be performed through the APP or DTMF tones and the firmware remotely managed.

8D5897
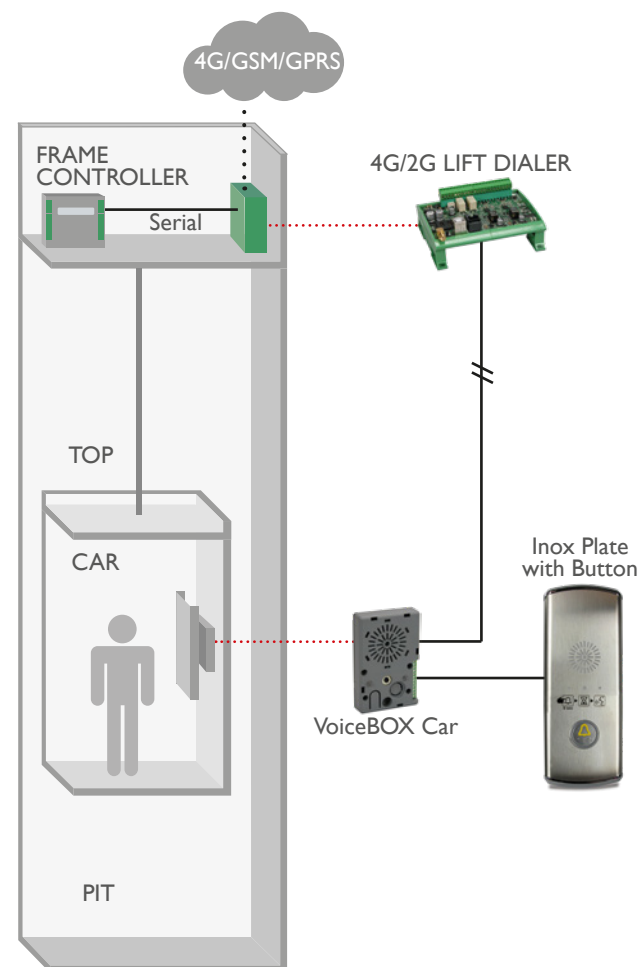
4G/2G
LIFT DIALER
Metal Box

Rugged Emergency Telephone System with embedded 4G or 2G engine.

Its typical installation is on top of the Lift Car.

Easy configuration through smartphone APP or DTMF.
Save time connecting 2 wires only to the VoiceBoxes / Speakerphones.

8D5896B

4G LIFT DIALER BOX

Lift Alarm System with 4G engine perfect for lift modernization or new installation.
4G Lift Dialer is mounted on top of Car or in the lift shaft. Configuration via standard DTMF tones or using the smartphone APP.
Equipped with an RS232 serial port for the telemetry of the frame controller.
The firmware can be remotely upgraded.

- Standalone Dialer with integrated 4G or 2G module
- Connection with speakerphone (with 2 wires only)
- BLE 4.0 interface for setup
- Rechargeable backup battery included
- Power supply unit included
- Omnidirectional antenna included
- EN 81-28 and EN 81-20 compliant


8D5897B

2G LIFT DIALER BOX

Full standalone version of the Lift Remote Alarm System ideal for modernization.
Rugged metal box case for wall mounting, equipped with 220Vac/12V and internal backup battery.
Easy setting with DTMF tones or Smartphone APP.
It has an RS232 serial port for the telemetry of the frame controller.
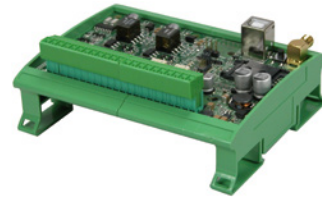The firmware upgrade can be also remotely managed.

4G/2G LIFT DIALER BOX

VoiceBOX Car

VoiceBOX Pit Water

Water

13
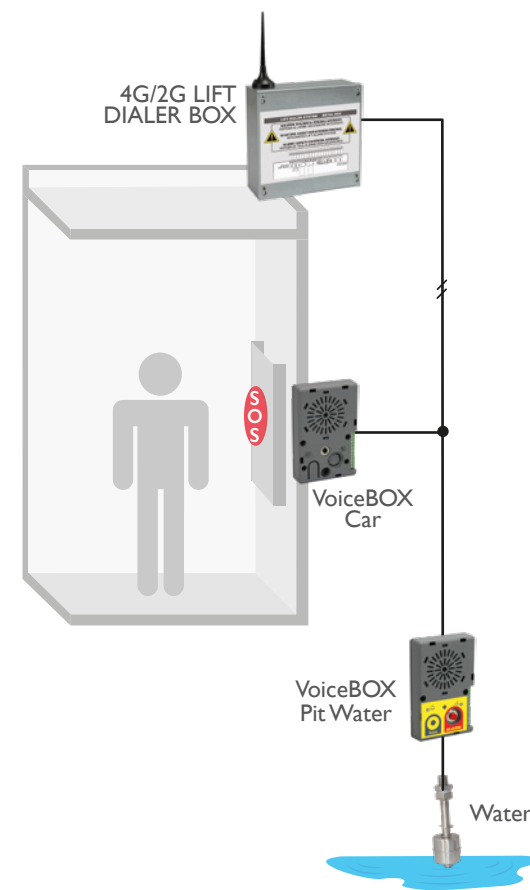
PSTN
LIFT DIALER

Emergency Telephone System for PSTN line ready for GSM.

Standard installation through DTMF tones.

Digital Voice Quality (PCM) and 2 wires only connection with the VoiceBoxes.
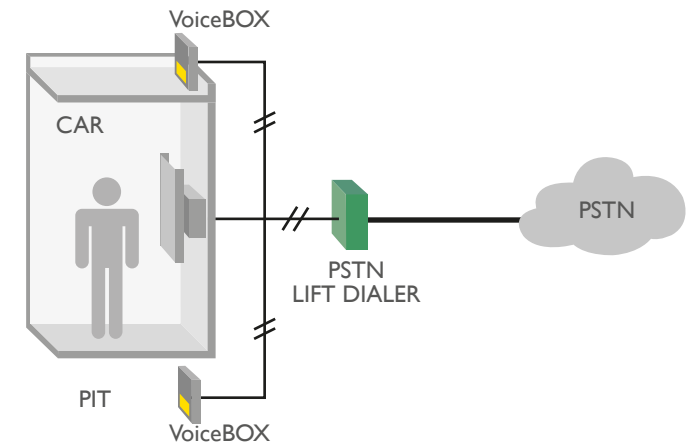*DIN Rail mounting kit included.*

PSTN LIFT DIALER

PSTN Lift Dialer is a Alarm System designed to be easily and quickly installed.

Together with VoiceBoxes, it can be used in new installations or modernizations.

8D5778P

The connection between the Dialer and the VoiceBox requires 2 wires only for voice, data and signallings.
The Dialer is typically installed on electrical panel using the supplied DIN Rail adapter.

- Dialer for PSTN Line
- DTMF configuration
- EN 81-28 and EN 81-20 compliant

PSTN LIFT DIALER BOX

PSTN Lift Dialer Box is the rugged version of our Remote Alarm System designed to be easily and quickly installed.

Together with VoiceBoxes, it can be used in new installations or modernizations.

8D5798P

The connection between the Dialer and VoiceBox requires 2 wires only for voice, data and signallings.
The metal box can be installed on top of the lift Car or wall-mounted in the elevator shaft.

- Dialer for PSTN Line
- Rechargeable backup battery
- EN 81-28 and EN 81-20 compliant

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VOICEBOX

It's an active speakerphone terminal for bidirectional audio communications towards the outside of the elevator or to the engine room.

Available in different versions, it connects to the Lift Dialers to create an integrated alarm system.

It can be used both for new installations and modernizations.

Easy to install connecting 2 wires only.
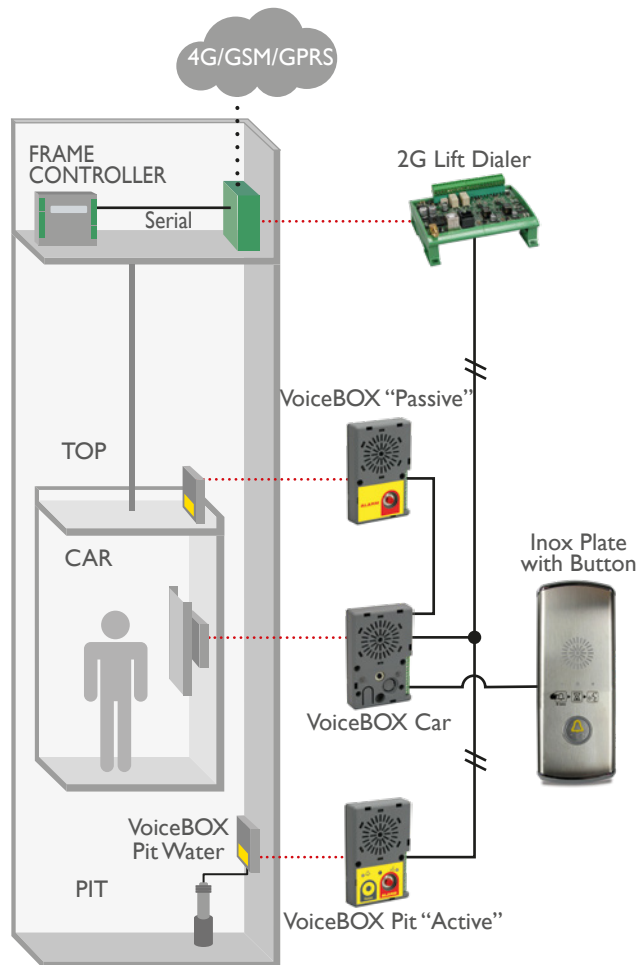
VOICEBOX CAR

(for installation into the cabin behind the push button)
You can connect the external control Leds that use the graphical displays with pictograms. Ready for the inductive loop.
• Connection with 2 wires only
• Quick and easy installation
• EN 81-28, EN 81-20 and EN 81-70 compliant

8D5804

VOICEBOX PIT/TOP

(for Pit/Top installations with integrated SOS button)
A reset button is present to close the alarm after a technical intervention.
2 Led indicators are present to be compliant with EN 81-28 regulation.

8D5780

VOICEBOX PIT WATER

(for Pit installations with integrated SOS button and water sensor management)
This version can also manage a water sensor to detect water flooding in the Pit.
VoiceBOX sends this information through the Lift Dialer to the help desk.

8D5780PW

VOICEBOX P

(passive version)
Ideal for a voice station management installing this passive version on the Top/Pit and leaving the active one in the cabin.

8D5810

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COPPY
Lift Dialer

The new generation of Emergency Phone System for PSTN Line.

Fast & Easy installation with classic DTMF tones or using Bluetooth with a dedicated APP.
Smart passive Top & Pit units with high-quality voice for Triphony application.
Wireless sensors (water flooding and smoke) complete the solution for a perfect IoT ecosystem.

COPPY

This new generation PSTN Lift Dialer is an Alarm System designed to be easily and quickly installed.
Together with new VoiceBoxes, it can be used in new installations or modernizations.

For triphony application, a new serie of VoiceBoxes has been developed. Passive units can be connected with a LAN cable on top and bottom of the Car.
Few steps configuration with a dedicated APP via Bluetooth.
A Radio 868MHz interface is used to connect different sensors, like water flooding or smoke detector.

COPPY METAL BOX

The rugged version of PSTN Lift Dialer is designed to be easily and quickly installed on top of lift Car.
With integrated speakerphone and remote Coppy Box in the Car, it can be used in new installations or modernizations.
Metal Box case for top Car mounting, equipped with 220Vac/12V and internal backup battery.
Easy setting with Smartphone APP or DTMF tones.
Fast connection to the dedicated speakerphone with an RJ45 LAN cable.

8D5894

- PSTN Lift Dialer
- BLE 4.0 interface for setup
- 868MHz interface for remote sensors
- DTMF configuration
- High-Quality speakerphone
- Embedded backup battery *(Coppy Metal Box)*
- Rugged case *(Coppy Metal Box)*
- EN 81-28 and EN 81-70 compliant

8D5894B

PSTN	Voice	BLE 4.0

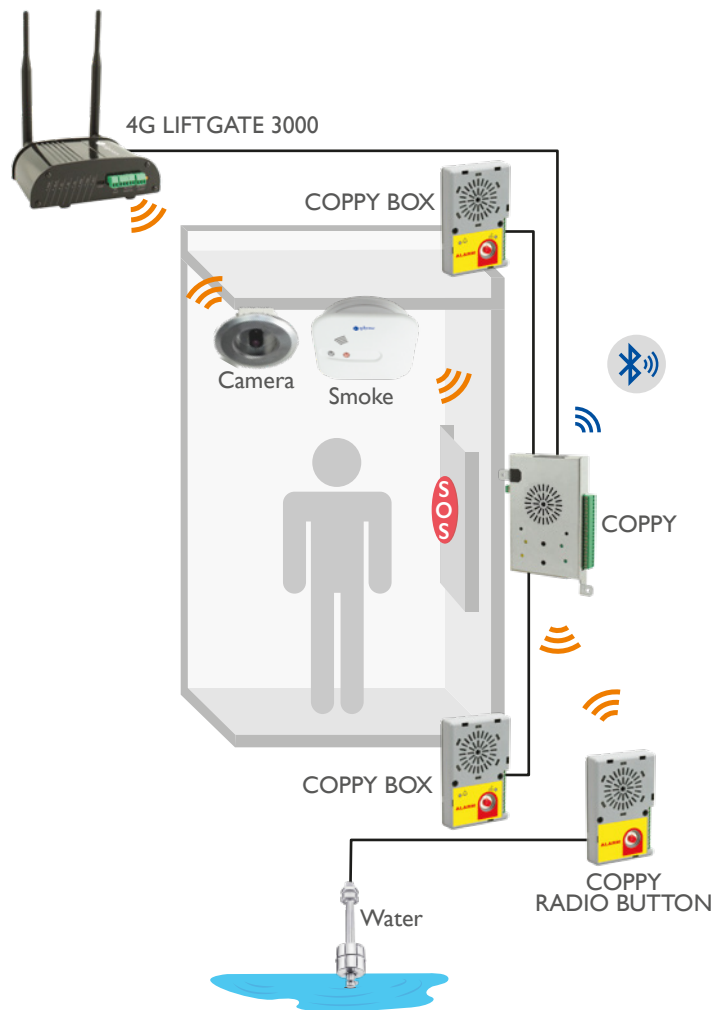| Backup battery	Sensors	Made in Italy

COPPY BOX

Coppy Box is a speakerphone terminal for bidirectional audio communications to be used when triphony is required.
Coppy Box is connected to Coppy Dialer through a standard RJ45 LAN cable, Plug & Play.

Coppy Box can be easily installed on top or botton of the Car.

COPPY BOX
(for Pit/Top installations with integrated SOS button)
Easy installation through an RJ45 LAN cable to Coppy main unit.

- Connection with RJ45 LAN cable
- 2 Led indicators as per EN 81-28
- No external power required
- Quick and easy installation
- EN 81-28, EN 81-20 and EN 81-70 compliant

COPPY RADIO BUTTON

If a button in the Pit is required, you can use the Coppy Radio Button.

When the button is pushed, this wireless unit activates the SOS alarm using the Coppy Box installed under the bottom of the Car.

- Battery powered

LIFT MANAGER APP

An Android APP to configure the elevator Alarm System in few steps.
Available for iOS and Android.

IoT SENSOR

A range of wireless accessories is available for monitoring the lift status.

Using the sensors, situations of potential danger are detected such as flooding in the Pit or smoke in the Car.
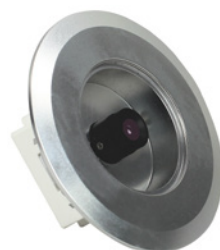
Wired

Wireless

SMOKE SENSOR
It detects the presence of smoke inside the cabin and informs in case of danger.
Available in a wireless or wired version.
To be installed on the Lift ceiling.
- Optical smoke sensor Tyndall effect
- Low battery monitoring

LIFT WATER SENSOR
In case of water flooding in elevator Pit, it detects the event and communicates to the Gateway the presence of water.
- 2 wires only
- Wall-mount installation

8D5867B Spot Ext

8D5867A Spot

LIFT CAMERA SPOT & SPOT EXT
It is installed on the Car ceiling to eliminate false calls, looking the real status inside the cabin.
Available into 2 versions, spotlight Led or external, based on your application.
The connection is performed with 3 wires (RS485).
- Rugged color camera, made of solid aluminium case.
- 60° view angle
- Anti-vandal glass

INDUCTIVE LOOP
Compact inductive hearing loop adapter for Lift Dialer & Coppy.
It's used to amplify speech and voice for persons with impaired hearing.
- Easy installation
- Compact dimensions

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