PELEKIS
Electronic Products

Reference Manual

INTD0901

Emergency Call System for elevator

Emergency phone 12V DC

Please read carefully the instructions in order to get all the benefits of this device.

www.pelekis.tech

Rev. 2.1 Sep 2022

TÜV AUSTRIA HELLAS CE

Version history		
V1.0	07/2020	Add program code
V1.1	12/2020	Hardware upgrades
V2.1	10/2021	Firmware Updates
V2.1	10/2022	Re-certification based on EN81-28:2022

General Description:

The RED PHONE PWR device with code INTD0901 is an electronic device which can call up to 4 (four) predefined numbers in case of emergency in elevators.
The device is placed in the elevator car and can achieve two-way communication between the trapped passenger and the rescue service.

Caution : The installation and setting of the device, must be done by qualified personnel .

The device is designed to meet the requirements of the European Directive EN 81-28 for safety in lifts.

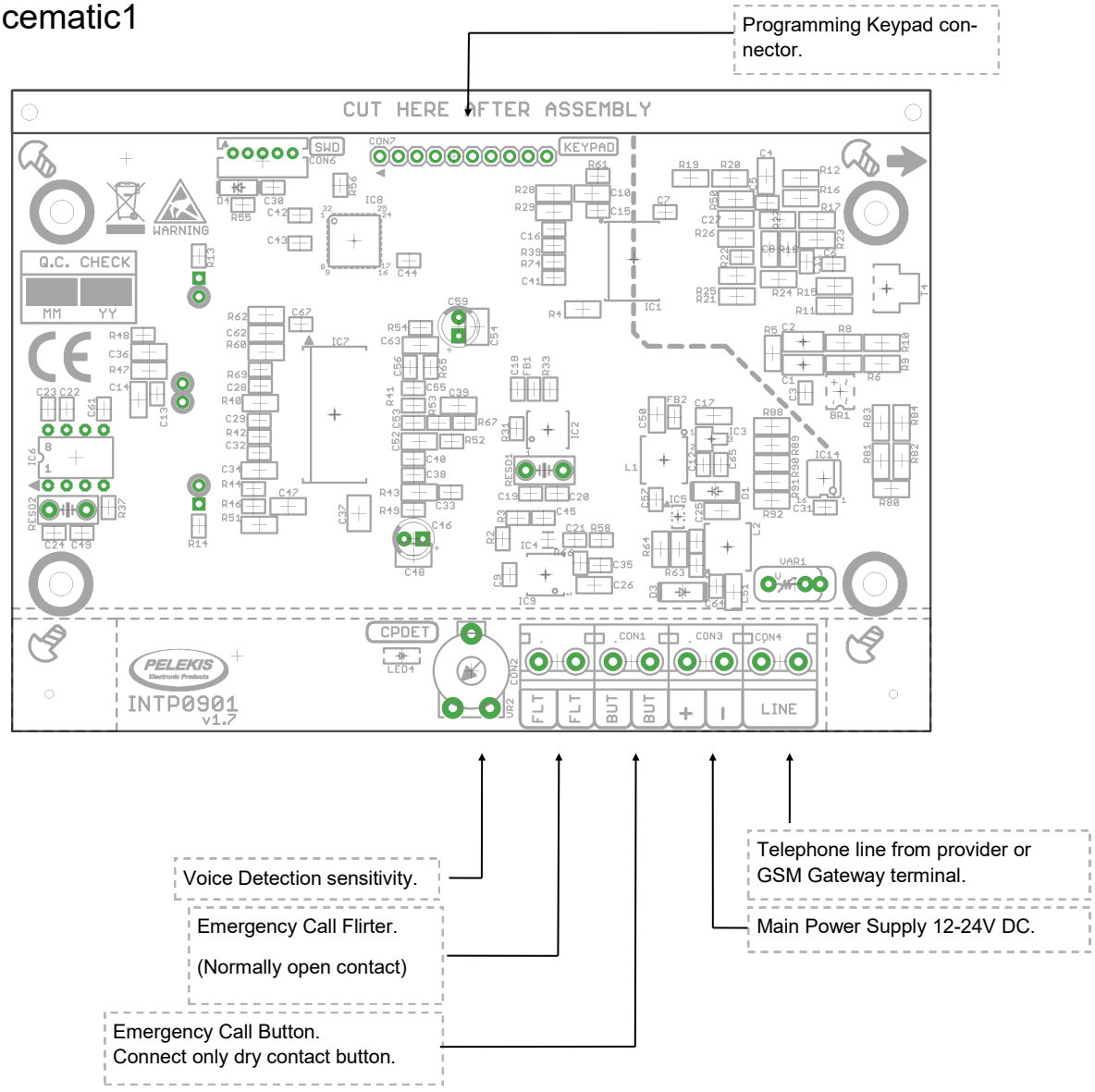
Requirements of the standard EN81-28:

- The RED PHONE PWR device must be connected to an authorized agent or to an Emergency Call Center.
- Provide to the Emergency Center all the necessary information of the installation.
- The lift must be set out of order when the device is not connected to an Emergency Center.
- Periodically check the correct functioning of the device.

Connection Diagram:

Connection diagram for the Horizontal version of the PCB

Scematic1



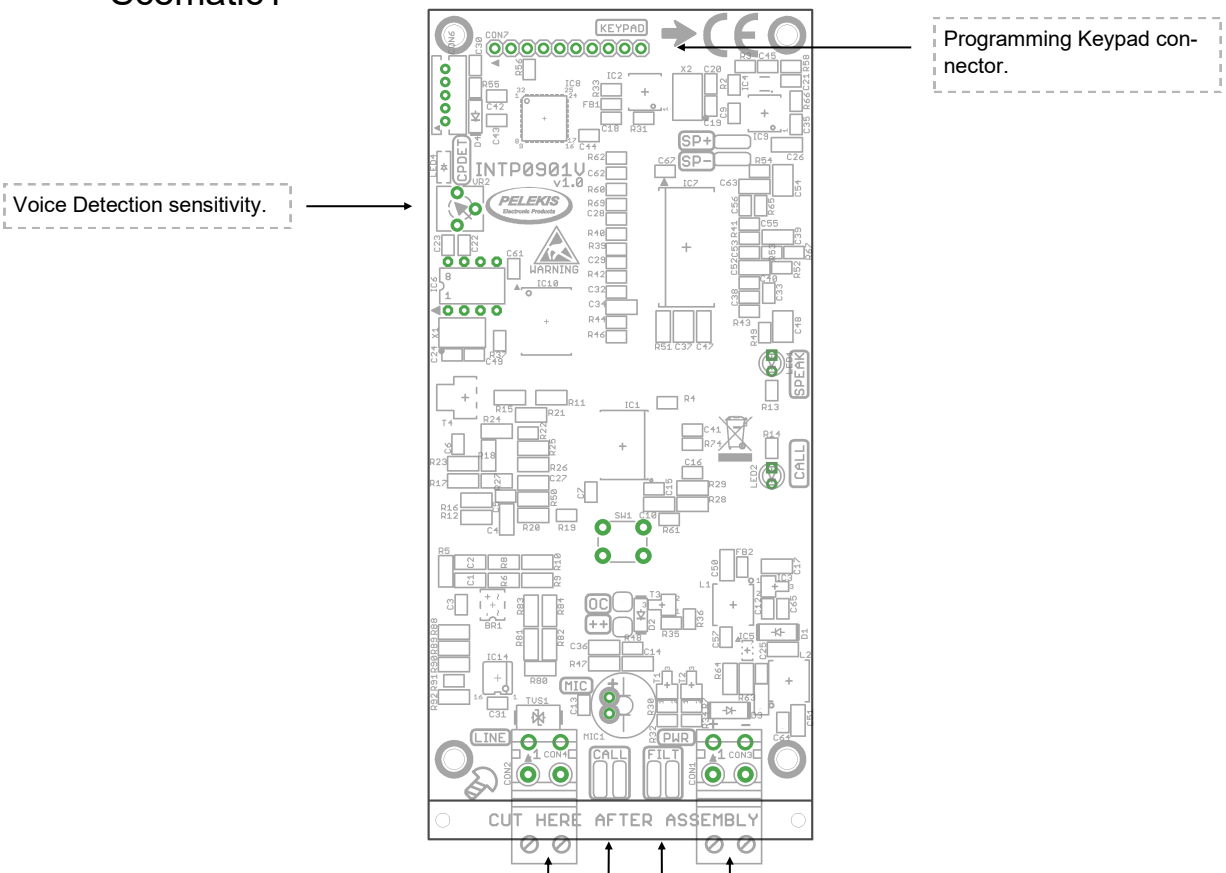
When there is an Internet line connected, a filter ADSL should be placed in the terminal "LINE".
When there is a line of VOIP (Voice Over IP), the RED PHONE PWR device should get
signal from the modem and not directly from the line.
If the RED PHONE PWR device is connected to an internal call center, a full operational control must be made.

For any problem call SERVICE: phone 0030 210 23 23 345.

Connection Diagram:

Connection diagram for Vertical version of PCB

Scematic1



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For any problem call SERVICE: phone 0030 210 23 23 345.

- Emergency telephone number programming:

In order to make the programming of the device we need to attach the Keypad that is offered with the device.

A power supply of 9-24VDC is should be connected in order to let user program and use the device.
A connection with a telephone provider is necessary in order to program the device.
By pressing **PR** (PROGRAM) abbreviation on the keyboard, the yellow LED turns on and the unit enters the programming mode .
To continue the programming, the password 0000 (default setting) should be stored.

Using the parameter "#089" the password can be changed to the one of your choice .

There is no need to change the password to continue programming the device.
After each accepted command the device informs the user with two (2) beeps .
After each setting the device remains open and stands by a new command.
Press the PR button to close the programmed device.
Programming & Saving Station Numbers :
The telephone numbers that have been formed will be stored in the internal memory of the device, in certain locations (S1, S2, S3, S4) according to the following order.

Memory 1 (S1)	S1 2102323345 S
Memory 2 (S2)	S2 2102323345 S
Memory 3 (S3)	S3 199 S
Memory 4 (S4)	S4 6900000000 S

In case of mishandling during the process of storing the telephone numbers press the **PR** button to close the device and repeat the procedure from the beginning.

• Internal telephone code programming:

Description & Operation:

The device can make an internal number selection for each emergency number it calls, In case the specific number belongs to a call center.

In this way, the user can specify an additional 4-digit number that corresponds to a terminal behind a call center. The user has the ability to select any number size from 1 to 4 digits.

Every emergency number that we programmed based on the previous page ,can only accept one internal telephone number.

During the emergency call the device selects the number and waits for the successful connection and speech recognition on the line. When answering the call and recognizing a speech or call center from the connected line, the device selects the internal number after 5 seconds, if it is stored in the corresponding memory location.

Programming and storing internal numbers:

To program the 4 digits, we place the device in the programming mode by pressing the PR button.

When the device opens, we create the following combinations on the keyboard to program and store the numbers in the corresponding memory locations on the device.

1	**i**1 1025S
2	**i**2 9S
3	**i**3 256S
4	**i**4 8452S

Example: To program a three-digit internal number "256" when dialing the emergency number stored in 3rd place memory, we type "i3 256S".Where i from the word internal , 3 the number of the memory in which the emergency number is stored, 256 the internal telephone number, and S from the word Save, to complete and save the procedure.

In case of mishandling during the process of storing the telephone numbers press the **PR** button to close the device and repeat the procedure from the beginning.

• Program the “Call Service number”:

INTD0901 device can make a recurring call every 1 to 3 days on a specific phone number according to EN 81-20. This call is characterized as "Service" call and informs a call center or platform for the device’s status and its smooth operation.
For the above programming, we will need to update 2 parameters on the device:

- **Programming ‘Service’ telephone number**.
  Following the programming steps for the 4 emergency numbers as listed on the previous page, we store the Service number in exactly same way. This time we save the desired number in position 5.

Memory 5 (S5)	S5 2102323345 S

- **Set the number of days to call the "Service Call number".**
  With programming code "# 097" we can select from 1 to 3 days at the end of which, a “Service call” will be achieved to the phone number stored in memory 5.

When connected to this Service number, the device sends its serial number (factory setting "0000").

To change the serial number, see "# 088"

• Special Programming Functions:

To start the Special Programming Functions, we must open the device by pressing the PR button with the yellow LED on.
When you have finished programming the device and it is still open, press the PR button to shut it down and wait at least for 2 (two) seconds (sec). The following table, lists the programming codes.

Attention! The grayed out color codes are not compatible for devices with board version higher than v 1.7

Special Programming Function		
Code Setup	Code Description	Factory Setting
#080	**Adjust speaker volume.** Button “1” increases tension, “2” reduces volume. After the desired setting, press * to save.	**50%**
#081n	**Number of rings to answer an incoming call.** n = a number from 0 to 9. This number indicates how many times the device will ring before answering. By placing the number 0, the device does not respond.	2
#082n	**Delay Time for Sending Extension Code** **Number of seconds before sending the internal extension code to numbers S1, S2, S3, and S4.** When the device detects an answer from the called number, and provided that an internal extension code is pre-stored in positions I1, I2, I3, or I4, it introduces a delay before transmitting the extension code.	**<1>**
#083	**Set up ISDN (flash time acceptance).** The device opens and automatically dials the code ** 25 * 20 # to set the flash time acceptance to less than 200 msec. The device sends a signal (ok) after 1 (one) second (sec).	**—**
#084x	**Select call termination during communication.** With **x = *** the user can end the call during communication (green light on) if the button is pressed for more than 3 seconds. With **x = #** the option is deactivated.	Disabled Mode **#**
#085n	**Filter Input Selection.** • n = 0, (Disabled Filter) • n = 1, (Normally Open Filter) • n = 2, (Normally Closed Filter) **Filter Disabled:** The device initiates a call without checking the state of the input filter. (i.e., the input terminals are ignored – the call is triggered regardless of external contact state). **Filter in Normally Open (NO) Mode:** The device initiates a call only when the filter terminals are bridged (i.e., a short circuit or external switch closes the circuit). *(Typically used with external NO push-buttons or contact relays.)* **Filter in Normally Closed (NC) Mode:** The **device initiates a call only when the filter terminals are open (i.e., there is no el**ectrical connection between them). *(Typically used with NC-type safety switches or tamper contacts.)*	Disabled Mode **0**

Special Programming Function		
Code Setup	Code Description	Factory Setting
#086x	**Select RED PHONE PWR ID send when call connected.** With **x = *** the device automatically sends the ID of the device when it comes to speaker mode. With **x = #** the option is deactivated.	Disabled Mode **#**
#087n	**Select the device's function.** This code sets the main operation mode of the device. • n = 0, (Normal mode) • n = 1, (Hook off-not dialing) • n = 2, (Hook off - keypad enabled) ***Normal mode:*** The device makes an emergency call with the stored numbers from its internal memory. ***Hook off-not dialing :*** The device takes over the line without making any number selection and so no emergency call. ***Hook off—keypad enabled:*** The device takes over the line and the number is selected by the external metal keypad.	Normal Mode **0**
#088nnnn	**Change the RED PHONE PWR device ID.** **nnnn = 4** numbers representing the new device ID.	**0000**
#089nnnn	**Change password in RED PHONE PWR settings.** **nnnn = 4** numbers that will represent the password in the device settings. When the code is 0000, it is not required in order to entering the programming mode. If a password is changed then its input is required only when entering programming mode. If the password is entered wrong, the device will shut down.	**0000**

Special Programming Function		
Code Setup	Code Description	Factory Setting
#090x	**Signal Recognition Filter Configuration** • n =0 : (DialTone, NoCarrier, Voice, RecTape, QuickHang, ContSilence, ContTone) * • n = 1: (DialTone,NoCarrier,Voice,ContSilence, ContTone) * • n = 2: (DialTone,NoCarrier,Voice)* * ***DialTone:*** Detection of dial tone signal. . ***NoCarier:*** Detection of busy tone or call failure. ***Voice:*** Detection of human voice presence . ***RecTape:*** Detection of answering machine or pre-recorded mes-sage. ***QuickHang:*** Detection of provider message (e.g., connection failure, call rejection) ***ContSilence:*** Detection of prolonged silence on the line. ***ContTone:*** Detection of continuous tone on the line e.g., error or disconnect tone).	Normal Mode **<0>**
#091n	**Number of seconds between 1st and 2nd digits of the called number.** For **0 <n <= 3**: The device pauses a time equal to the stored value between 1st and 2nd digits when selecting the called number.	**< 1 >**
#092n	**Number of called number calls.** For **0 <n <= 5**: The device counts dial tones on called number and when it exceeds the stored value it performs the next call according to the saved settings.	**< 5 >**
#093x	**Select to connect and operate with a device GSM INTD0909.** For **x = *** device upload its memory to the GSM Gateway unit. With **x = #** device take over the Call Progress without the help of the GSM Gateway unit. Before proceeding with any other setting, wait until you hear the 2 beeps (ok). **Caution: Applies only to devices that have a number series of S/N 5326i or higher.**	**Disabled Mode < # >**

Special Programming Function		
Code Setup	Code Description	Factory Setting
#095n	**Emergency Button Delay Time to turn on the device.** For **0 <n <= 5**: The second that the emergency button should be kept pressed before device turned On.	**< 3 >**
#096n	**Select Flash Time.** Set the telephone line disconnect (Flash) period that occurs during the dismissal of an active call with the next For **0 <n <= 5**: The device is releasing the telephone line for a time period, equal to the stored value during the emergency call progress process.	**< 3 >**
#097n	**Set the number of days to call the "Service Call number".** For **1 <= n <= 3**: The device dials the “Service Call Number” if it is stored in memory “S5”, periodically every 1 to 3 days according the **“n”** number. For **n = 0**: The process is deactivated and device does not make the recurring call.	**< 0 >**
#098x	**Select automatic call deactivation after 3 minutes.** With **x = ***, automatic *call deactivation* is activated after 3 minutes. With **x = #** automatic *call deactivation* is deactivated	**Enabled Mode** **< * >**
#08i	**Restore factory settings.** Resets the factory settings of the device and deletes the 5 stored numbers.	

- Description of Operation:

Automatic connection to the rescue service by pushing a button :
Press and hold the button labeled “PHONE” for four seconds (4sec).
The yellow indicator LED will turn on and start the automatic dialing of stored numbers.
The device dials first the emergency number stored in position 1 (M1) .
If the number is busy or does not answer, the device starts dialing the next stored number and so on.
The above procedure is repeated three (3) times consecutively numbered M1, M2, M3 and M4 . On condition that the twelve (12) attempts fail , the device will shut off and you must repeat the process .

Caution! The RED PHONE PWR will not ring when accepting an external call, so the person who makes the call should start talking first.

Caution! The RED PHONE PWR device will not operate properly if it is connected to an answering machine terminal.

- Test before startup:

The installer must do the test after installation.
Tests before starting operation should cover the operation of the alarm system.

The control and test of the entire system must be in accordance with relevant standards of series EN 81.

- Compliance EU:

EMC Directive, **2014/30/EU** , limits electromagnetic emissions from equipment in order to ensure that, when used as intended, such equipment does not disturb radio and telecommunication, as well as other equipment. Directive **2014/30/EU** describes <At the discretion of the manufacturer, the device's conformity with the essential requirements specified in Article 3 (1) (a) and (b) can be demonstrated using the procedures set out in Directives **2014/30/EU** and **2014/35/EU** . >.
The telecommunication devices which do not use radio spectrum - telecommunications and can take part information should be subject to the procedures described in any of the Annexes II, IV or V at the discretion of the manufacturer.

On standards harmonics:

Tests	Standards	Certifier
Emissions	**EN 55022/EN12015**	**NTUA 27/9/2022**
Immunity	**EN 55024/EN12016**	**NTUA 27/9/2022**
ESD	**EN 61000-4-2**	**NTUA 27/9/2022**
RF radiated field up to 1GHz	**EN 61000-4-3**	**NTUA 27/9/2022**
RF radiated field 1-6GHz	**EN 61000-4-3**	**NTUA 27/9/2022**
Burst (DC Power & Signal&Telecom)	**EN 61000-4-4**	**NTUA 27/9/2022**
Surge (DC Power & Signal&Telecom)	**EN 61000-4-5**	**NTUA 27/9/2022**
RF Conducted Field (DC Power & Signal&Telecom)	**EN 61000-4-6**	**NTUA 27/9/2022**
Power Frequency Magnetic Fields	**EN 61000-4-8**	**NTUA 27/9/2022**

For EMC compatibility (directive 2014/35/EU AND 2014/30/EU)

National Technical University of Athens NTUA 27/9/2022

For EN81-28:2022 4,5,6 &7 EBETAM LF/A-C-0299 / 2022.
For EN81-20 art. 5.12.3 & 5.2.1.6 EBETAM LF/A-C-0299 / 2022.

PELEKIS
Electronic Products

PELEKIS Electronic Products	**DECLARATION OF CONFORMITY** ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ
Manufacturer's Name Όνομα κατασκευαστή	E. PELEKIS & Co Ε. ΠΕΛΕΚΗΣ και ΣΙΑ ΟΕ
Manufacturer's Address Διεύθυνση Κατασκευαστή	**Hr. Karvouni 27- AHARNAI** **Χρ. Καρβούνη 27 – ΑΧΑΡΝΑΙ**

Declares that the product: Emergency Lift Telephone

Δηλώνει, ότι το προϊόν: Τηλέφωνο ανάγκης για Ανελκυστήρα

Product Name: ***"RED PHONE PWR"***

Ονομασία: ***"RED PHONE PWR"***

Product types / Κωδικοί Προϊόντος: INTD0901, INTD0901V, INTD0900, INTD0900V, INTD0904S.

Conforms with the essential requirements of the EMC directive 2014/35/EU και 2014/30/EU *and the Radio & Telecommunications Terminal Equipment and satisfies all the applicable standards to the product within this directives as follows:*

Emissions	**EN 55022/EN12015**
Immunity	**EN 55024/EN12016**
ESD	**EN 61000-4-2**
RF radiated field up to 1GHz	**EN 61000-4-3**
RF radiated field 1-6GHz	**EN 61000-4-3**
Burst (DC Power & Signal&Telecom)	**EN 61000-4-4**
Surge (DC Power & Signal&Telecom)	**EN 61000-4-5**
RF Conducted Field (DC Power & Signal&Telecom)	**EN 61000-4-6**
Power Frequency Magnetic Fields	**EN 61000-4-8**

Date and location/Τόπος, Ημερομηνία

ATHENS 7/11/2022

Signature /Υπογραφή

EBETAM MIRTEC

ΑΝΩΝΥΜΗ ΕΤΑΙΡΕΙΑ ΒΙΟΜΗΧΑΝΙΚΗΣ ΕΡΕΥΝΑΣ, ΤΕΧΝΟΛΟΓΙΚΗΣ ΑΝΑΠΤΥΞΗΣ
& ΕΡΓΑΣΤΗΡΙΑΚΩΝ ΔΟΚΙΜΩΝ, ΠΙΣΤΟΠΟΙΗΣΗΣ ΚΑΙ ΠΟΙΟΤΗΤΑΣ
MATERIALS INDUSTRIAL RESEARCH & TECHNOLOGY CENTER S.A.

CERTIFICATE OF COMPLIANCE

Certificate No: LF/A-C-0299 / 2022

Applicant/ Manufacturer / Certificate-holder:	**E. PELEKIS & Co,** **"PELEKIS ELECTRONICS"** 27 Ch. Karvouni, Aharnai, Attika GR-13671
Description/Product commercial name-Type :	**Remote alarm–emergency Phone** **for passenger and goods passenger Lifts** INTD0901,INTD0901V, INTD0900,INTD0900V,INTD0904S INTD0900F, INTD0901F
EU Directive/Norms :	2014/33/EU, Annex I, 2014/30/EU EN 81.20, § 5.12.3 and 5.2.1.6 EN 81-28: 2022, EN 12015, EN 12016, EN 61000-4, EN 55032, EN 55035
Control and testing installations :	Factory PELEKIS ELECTRONICS & CO (document control, functional tests acc. EN 81.20, § 5.12.3,5.2.1.6 and EN 81-28:2022), NTU(ΕΜΠ) Laboratory acc. (EN 12015, EN 12016, EN 61000-4, EN 55032, EN 55035)

The lift inspection and certification department of MIRTEC SA, certifies hereby that the over mentioned manufacturer has compiled a technical file in accordance with the requirements of the mentioned Norms which was submitted to us on October 2022 for examination on its completeness/compliance and archiving purposes.

The compliance verification tests took place at Factory PELEKIS ELECTRONICS & CO on 2nd & 3rd November 2022 NTU(ΕΜΠ) Laboratories, September 2022

Relevant reports: MIRTEC: LF/A-R-0299/2022, 03/11/2022
NTU, Report Nr: 9789_27.09.2022

The manufacturer has to issue the declaration of conformity and attaches the CE Marking for 2014/30/EU

This certificate is valid until November 2025.
Significant changes to the design and the manufacture of the certified product are to be notified to MIRTEC S.A.

Date of issue: 10.11.2022

MIRTEC'S certification department

I. Dimitriadis

LF_A_C_0299_22_Eng_INTD 0901

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• Technical support

For technical support please contact the local distributor of Pelekis Electronics.

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