

# iNELS for everything, everywhere

Selection of references



## Smart Home & Building electro-installations

The new industrial branch Smart electro-installation has been developing by quantum leaps in recent years. ELKO EP has kept a careful eye on these trends, and with them in mind, it has introduced the iNELS system to the market. Through its wide-ranging versatility, it covers contemporary requirements for intelligent electrical installations for various sized buildings: from apartments to family homes, villas and hotels to factories.

In this brochure, you will find a selection of over 5,000 installations that iNELS has performed in its existence. References are thematically grouped based on type of building. It is not a complete listing, but offers inspiration. It includes apartments, homes, villas and hotels, but also commercial and historical buildings.

[www.inels.com/about-us](http://www.inels.com/about-us)





Apartment & House 4–15



Hotel 16–27



Commercial 28–53



Showroom 54–57



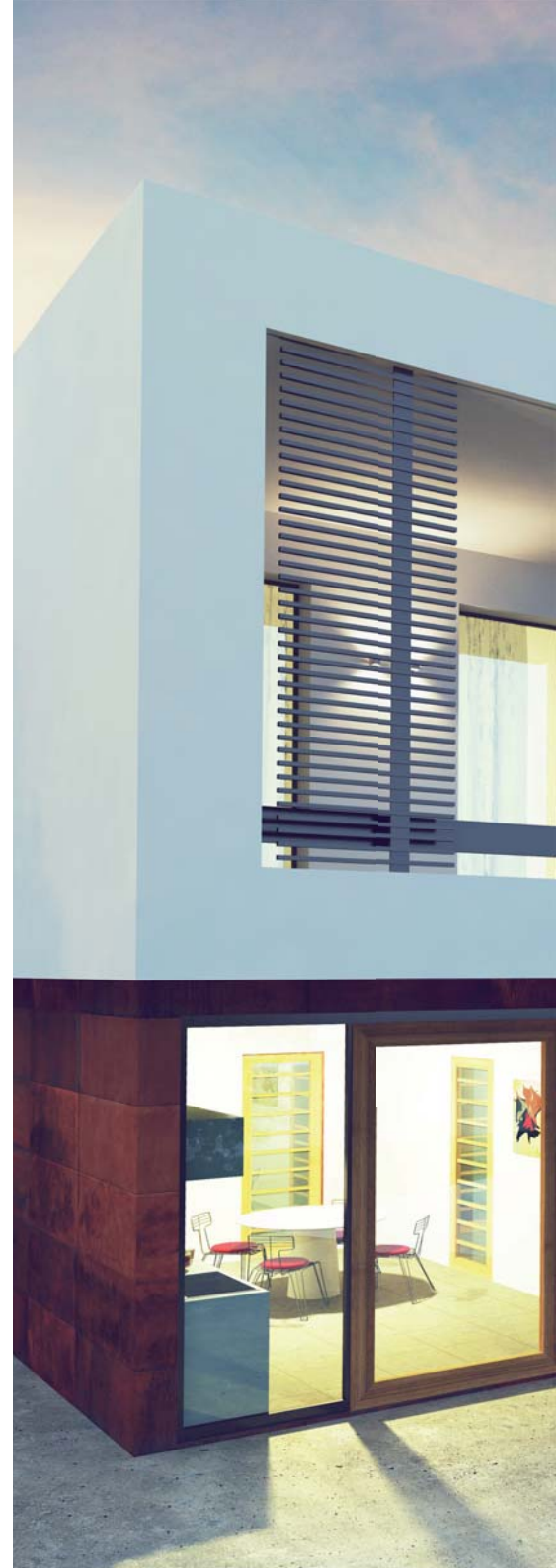
Relays 58

# APARTMENT & HOUSE

Owners of existing apartments and houses in which electrical installations already exist need not worry. We have prepared for them an iNELS wireless version - RF Control. As the name implies, it functions wirelessly, so there is no need to install or rearrange cabling. The wireless iNELS includes functions for controlling appliances, dimming lights, timing for shutters and blinds and heat regulation.

For larger houses and villas, we recommend the system iNELS BUS. The basis of the structure is a communications data cable, a so-called bus, by which all sensors, controllers and performance elements in the home are connected. The advantage is not only in the amount of functions that the bus brings, but also the option of integrating third-party devices: video cameras, kitchen appliances, devices for heating, air-conditioning, heat pumps, solar systems, photo voltaic systems, energy management and much more.

[www.inels.com/apartment](http://www.inels.com/apartment)





## Benefits



### Security

The built-in alarm not only watches for burglars, but also for gas leaks or fires.



### Savings

By proper regulation of the temperature and linkage of home technologies, you can achieve substantial savings.



### Automation

All functions take place in the background without bothering you. The system monitors, regulates,...



### Design

Glass touch controllers in white or black stand out in any interior.



### Remote monitoring

Whether you are at home or away, your home remains under the constant control of your smartphone.



## Apartment Prague, Czech Republic

- private cinema
- 10 dimm, 35 switch lights
- sauna, whirlpool



Realization: iNELS Czech

## Controlling

- Appliances control
- Lighting / Dimming
- Appliances switching
- Shutters / Blinds
- HVAC
- GRMS
- Cameras
- Intercom
- Audio / Video





## Apartment

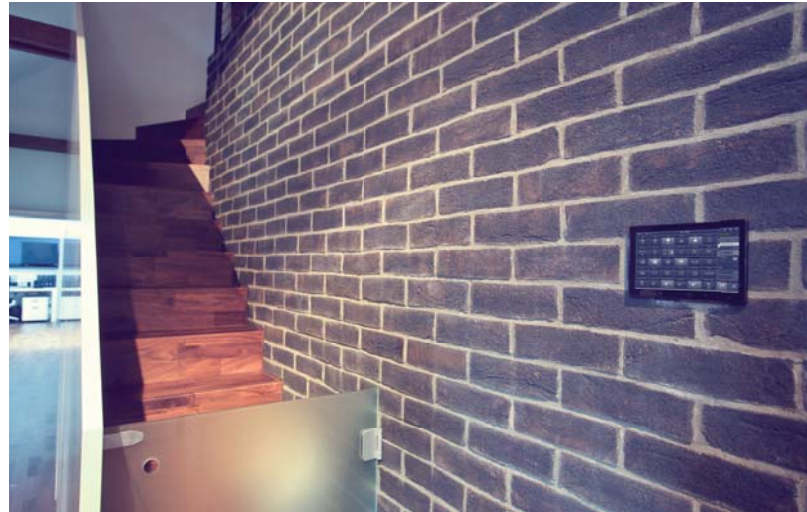
Prague, Czech Republic

- 6 dimm, 25 switch lights
- shutters, curtains
- individual heating control

Realization: iNELS Czech

## Controlling

- Appliances control
- Lighting / Dimming
- Appliances switching
- Shutters / Blinds
- HVAC
- GRMS
- Cameras
- Intercom
- Audio / Video





## Tegra House

Vilnius, Lithuania

- wood passive house
- ventilation and shielding control
- camera system

Realization: ELKO EP Export

### Controlling

- Appliances control
- Lighting / Dimming
- Appliances switching
- Shutters / Blinds
- HVAC
- GRMS
- Cameras
- Intercom
- Audio / Video
- Irrigation







## House on the roof

Liptov, Slovakia

- dimming the lights
- use tablet to control all attractions at the house
- when motion registers, the system triggers both light and sound effects
- helicopter model in 1:1 scale

Realization: ELKO EP Slovakia

### Controlling

Appliances control

Lighting / Dimming

Appliances switching

Shutters / Blinds

HVAC

GRMS

Cameras

Intercom

Audio / Video

Irrigation





## Villa Brno, Czech Republic

- integrate security system
- 10 dimm, 35 switch light
- sauna, whirlpool
- home appliances



Realization: iNELS Czech

## Controlling

- Appliances control
- Lighting / Dimming
- Appliances switching
- Shutters / Blinds
- HVAC
- GRMS
- Cameras
- Intercom
- Audio / Video
- Irrigation





## Villa Dubai, UAE

- garden irrigation
- home appliance integration
- intercom and LARA

Realization: ELKO EP Middle East

### Controlling

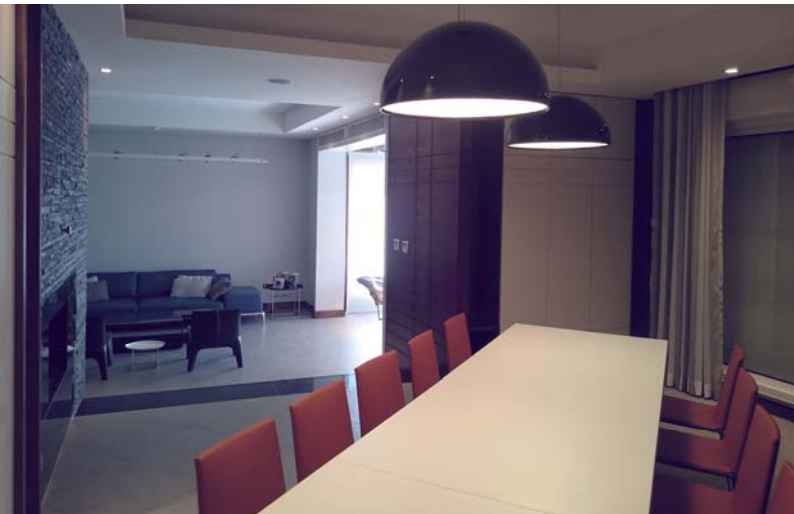
- Appliances control
- Lighting / Dimming
- Appliances switching
- Shutters / Blinds
- HVAC
- GRMS
- Cameras
- Intercom
- Audio / Video
- Irrigation





## Hissen Al Outoum Amman, Jordan

- 3<sup>rd</sup> party device integration
- flood sensors
- GSM communicator
- photovoltaic energy station control



Realization: ELKO EP Export

### Controlling

- Appliances control
- Lighting / Dimming
- Appliances switching
- Shutters / Blinds
- HVAC
- GRMS
- Cameras
- Intercom
- Audio / Video
- Irrigation





## Mahmoud Jaber Amman, Jordan

- 24 rooms
- HVAC complex control
- iNELS Multimedia with 18 zones
- LARA, Intercom, Video door phone
- garden irrigation control

Realization: ELKO EP Export

### Controlling

- Appliances control
- Lighting / Dimming
- Appliances switching
- Shutters / Blinds
- HVAC
- GRMS
- Cameras
- Intercom
- Audio / Video
- Irrigation





## Villa Piņki, Lithuania

- 2 floors, garage, sauna and 3 bedrooms
- 15 Dimmable Lighting zones, 8 wireless controllers, phone controlling functionality.
- Lighting automation cycles to make lights automatically turn off in the holiday period. 10 scenes.
- Variety of laser-printed icons on controllers to make it easy for the client to understand each button's purpose.

Realization: ELKO EP Export

## Controlling

- Appliances control ●
- Lighting / Dimming ●
- Appliances switching ●
- Shutters / Blinds ●
- HVAC ●
- GRMS ○
- Cameras ○
- Intercom ○
- Audio / Video ●



## Villa

### Beskydy Mountain, Poland

- iNELS bus system
- dimming light by using 0–10V and DMX protocol
- lighting scenes
- fully controlling SPA area
- shutters, meteostation
- temperature and humidity control
- remote by tablet, smart phones and EST3

Realization: ELKO EP Poland

## Controlling

Appliances control ●

Lighting / Dimming ●

Appliances switching ●

Shutters / Blinds ●

HVAC ●

GRMS ○

Cameras ○

Intercom ○

Audio / Video ●



# HOTEL

In recent years, iNELS has been developed for horizontal control of technologies not only for hotels but also for apartment houses, office buildings and everywhere it is necessary to resolve separate access of current residents, as well as their comfort.

iNELS in the form of GRMS (Guest Room Hotel Management System) enables not only control of lighting, air-conditioning or room access, but also control of music or television. All of this occurs from the central touch panel in designs of clear plastic, the natural materials wood, metal, stone or luxurious glass touch panels. A standard service we offer customers is customization - a description of symbols applied by laser onto plastic or glass controllers based on specification.



[www.inels.com/hotel](http://www.inels.com/hotel)







## Benefits

### Adjust to guest

Thanks to integration into a hotel system, it is possible to create a room scene when a guest registers.



### GRMS

Guest Room Hotel Management System.



### Comfort

The combination of automatic illumination based on motion and central control of the room.



### Do Not Disturb

Guests can very easily signal if they want the room cleaned, or do not want to be disturbed.



### Master off/Energy saver

When the guest then leaves, the system automatically disconnects all electrical appliances





## Marriott Marquis Doha, Qatar

- 5-star hotel in the Doha City center
- 44 floors, 397 rooms, 182 suites, 18 meeting rooms
- lighting control
- HVAC control
- master switch OFF



Realization: ELKO EP Export

### Controlling

Appliances control

Lighting

DALI integration

Shutters / Blinds

HVAC

GRMS

Access control system

Audio / Video

BMS integration





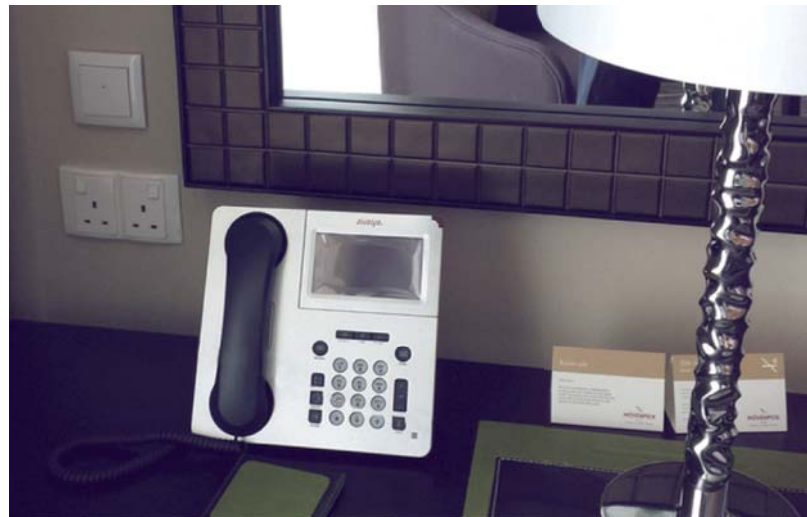
## Movenpick Dubai, UAE

- 255 rooms, 230000 sq, 530 units, 1600 light circuits
- control appliances, lights
- HVAC control
- garage doors, sockets

Realization: ELKO EP Middle East

### Controlling

- Appliances control ●
- Lighting ●
- DALI integration ○
- Shutters / Blinds ○
- HVAC ●
- GRMS ○
- Access control system ○
- Audio / Video ○
- BMS integration ○





## Wyndham Grand Istanbul, Turkey

- lighting control in each room, the common areas, conference rooms and other spaces
- 3000 lighting circuits are controlled through the DALI protocol
- EMDC units



Realization: ELKO EP Export

## Controlling

Appliances control



Lighting



DALI integration



Shutters / Blinds



HVAC



GRMS



Access control system



Audio / Video



BMS integration





## Meydan

Dubai, UAE

- lighting control
- crystal chandelier
- starry night sky control
- audio/video system

Realization: ELKO EP Middle East

## Controlling

- Appliances control
- Lighting
- DALI integration
- Shutters / Blinds
- HVAC
- GRMS
- Access control system
- Audio / Video
- BMS integration





## Cal Reiet Santanyi Mallorca, Spain

- swimming pool technology control
- fountain control
- Guest Room Hotel Management System

Realization: ELKO EP España

### Controlling

Appliances control



Lighting



DALI integration



Shutters / Blinds



HVAC



GRMS



Access control system



Audio / Video



BMS integration





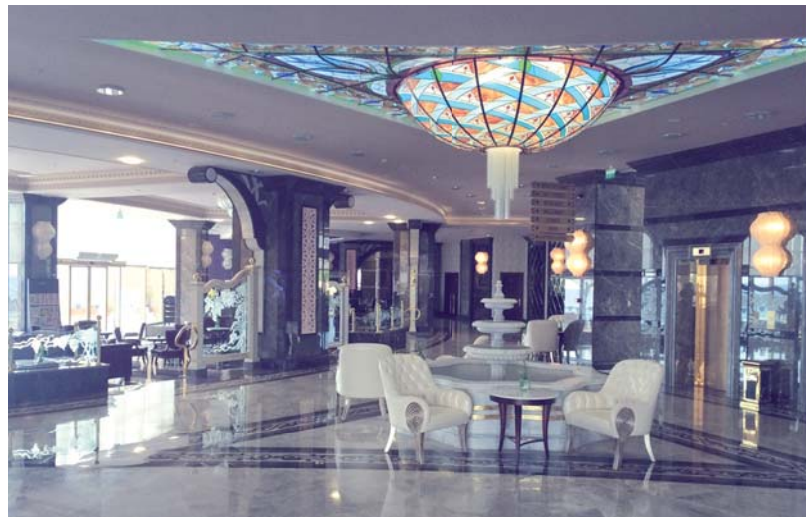
## Merit Royal Premium Kyrenia, Cyprus

- 125 rooms
- complete management of hotel rooms
- scenes: arrival/departure and day/night
- Guest Room Hotel Management System

Realization: ELKO EP Export

### Controlling

- Appliances control
- Lighting
- DALI integration
- Shutters / Blinds
- HVAC
- GRMS
- Access control system
- Audio / Video
- BMS integration





## Hotel Kempinsky Bayterek Almaty, Kazakhstan

- 5-star hotel in Almaty Kazakhstan
- lighting control in public areas
- more than 15 000 lighting are control through the DALI protocol
- setup scenes



Realization: ELKO EP Export

## Controlling

Appliances control



Lighting



DALI integration



Shutters / Blinds



HVAC



GRMS



Access control system



Audio / Video



BMS integration







## Rocks Hotel & Casino

### Kyrenia, Cyprus

- 5-star hotel
- located close to historical city Kyrenia
- the lights are controlled in iNELS system via light panel, USB socket, glass thermostats

Realization: ELKO EP Export

## Controlling

- Appliances control
- Lighting
- DALI integration
- Shutters / Blinds
- HVAC
- GRMS
- Access control system
- Audio / Video
- BMS integration





## Baltazár Boutique Budapest, Hungary

- access card control
- lighting scenes in the restaurant
- supervision from BMS
- app available for any guest

Realization: ELKO EP Hungary

### Controlling

- Appliances control
- Lighting
- DALI integration
- Shutters / Blinds
- HVAC
- GRMS
- Access control system
- Audio / Video
- BMS integration





## Pest-Buda Bistro & Hotel Budapest, Hungary

- The oldest hotel of Hungary, which was built in 1696
- Furniture & equipment has been renovated a few years ago
- 10 rooms with unique luxury equipment with unique copper lamps and unique heating & air-condition
- the hotel is part of Zsidai Gasztronómiai & Hotel group
- unique heating and air-condition

Realization: ELKO EP Hungary

### Controlling

- Appliances control ●
- Lighting ●
- DALI integration ●
- Shutters / Blinds ○
- HVAC ●
- GRMS ○
- Access control system ●
- Audio / Video ○
- BMS integration ○



# COMMERCIAL

iNELS finds more and more application in the wide sphere of commercial buildings – stores, offices, restaurants, hospitals, but also in historical buildings or manufacturing halls.

Though it is most frequently used to control lighting and HVAC, you will find iNELS projects using an access system, shading control, a video camera security system or distribution of audio/video.

The main emphasis is placed on problem-free operation of the building, efficient energy use and operations security. iNELS meets these needs to the fullest.



[www.inels.com/commercial](http://www.inels.com/commercial)





## Benefits



### Connection to BMS

iNELS can easily be connected to a Building Management System.



### Energy saving

Appropriate regulation saves costs in building operation in terms of heating, cooling, water heating, etc.



### Automation

Guests can very easily signal if they want the room cleaned, or do not want to be disturbed.



### Access system

Based on access rights, the system controls employee and visitor access to various parts of a building.



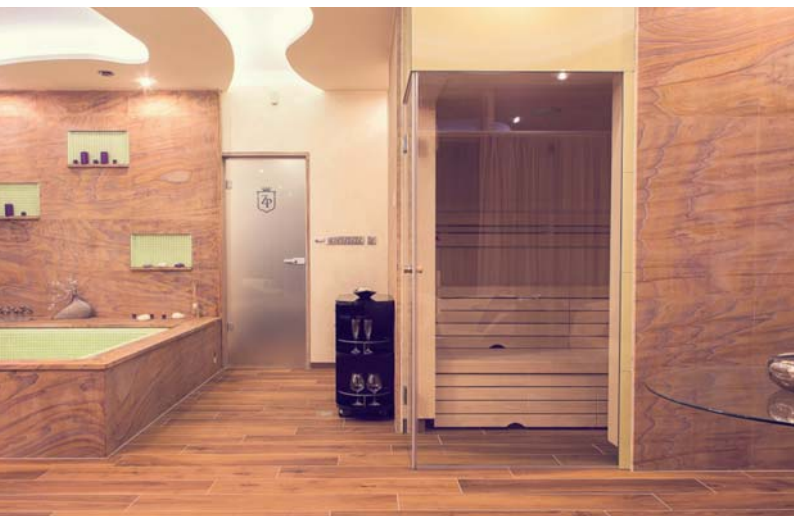
### Versatility

The system is suitable for installing in large and small commercial buildings alike.



## Wellness center Petrovice, Czech Republic

- 47 dimming, 63 switching circuits
- management of 30 m of RGB strips
- control, ceramic loungers, SPA, swimming pools



Realization: iNELS Czech

## Controlling

- Appliances control ●
- Lighting / Dimming ●
- DALI integration / DMX integration ●
- Automatic scenes ○
- HVAC ●
- GRMS ○
- Monitoring center ●
- Energy management ○
- Audio / Video ○





## Moni's Jewelry Budapest, Hungary

- Jewelry in the heart of Budapest
- Unique jewelry & Forever Mark diamonds

Realization: ELKO EP Hungary

### Controlling

Appliances control

Lighting / Dimming

DALI integration / DMX integration

Automatic scenes

HVAC

GRMS

Monitoring center

Energy management

Audio / Video





## Jachta Sunseeker Mallorca, Spain

- data processing and weather station information
- controlling of the air temperature in the boat and outdoors (sea, etc.)
- entry security
- lighting control

Realization: ELKO EP España

### Controlling

Appliances control



Lighting / Dimming



DALI integration / DMX integration



Automatic scenes



HVAC



GRMS



Monitoring center



Energy management



BMS integration







## Night club Inflagranti Ibiza, Spain

- lighting control for interior and exterior
- 500 m of RGB LED strips
- audio system

Realization: ELKO EP España

### Controlling

Appliances control

Lighting / Dimming

DALI integration / DMX integration

Automatic scenes

HVAC

GRMS

Monitoring center

Energy management

Audio / Video





## Office center Amman, Jordan

- over 100 offices
- access and attendance system
- shading according to sunshine
- A/C OFF when window open



Realization: ELKO EP Export

## Controlling

Appliances control



Lighting / Dimming



DALI integration / DMX integration



Automatic scenes



HVAC



GRMS



Energy management



BMS integration



Blinds





## Cinema Corvin Budapest, Hungary

- 6 movie theaters
- DALI control LED matrix (800 lighting fixtures)
- projection scenes
- heating and A/C control

Realization: ELKO EP Hungary

### Controlling

Appliances control

Lighting / Dimming

DALI integration / DMX integration

Automatic scenes

HVAC

GRMS

Energy management

BMS integration

Audio / Video





## Chateau Holešov, Czech Republic

- control (switch/dimm) of interior lighting
- touch panels
- fire alarm systems

Realization: iNELS Czech

### Controlling

Appliances control



Lighting / Dimming



DALI integration / DMX integration



Automatic scenes



HVAC



GRMS



Monitoring center



Energy management



BMS integration





## House of Jan Hus Husinec, Czech Republic

- reconstructed in 2015, now, museum and exhibition
- exhibit lighting control, scenes
- control from touch panels

Realization: iNELS Czech

### Controlling

Appliances control

Lighting / Dimming

DALI integration / DMX integration

Automatic scenes

HVAC

GRMS

Monitoring center

Energy management

Access control





## Buddha Palace Thimphu, Bhutan

- lighting control of historical interior sections
- scenes light according to visitor presence
- security system

Realization: ELKO EP Export

### Controlling

Appliances control

Lighting / Dimming

DALI integration / DMX integration

Automatic scenes

HVAC

GRMS

Monitoring center

Energy management

BMS integration





## House at the Golden Ring Prague, Czech Republic

- Audio-visual effects management
- Light scenes

Realization: iNELS Czech Republic

### Controlling

Appliances control

Lighting / Dimming

DALI integration / DMX integration

Automatic scenes

HVAC

GRMS

Energy management

BMS integration

Shutters / Blinds





## Magyar State Opera Budapest, Hungary

- Every additional lighting source is also controlled by iNELS system. The devices here are controlled by RF Touch.
- For switching the RFSA-11B and RFSA-66M is used.

Realization: ELKO EP Hungary

### Controlling

Appliances control



Lighting / Dimming



DALI integration / DMX integration



Automatic scenes



HVAC



GRMS



Monitoring center



Energy management



BMS integration







## Bodorka Aquarium Balatonfüred, Hungary

- you can meet „face-to-face” with all the fishes of the region
- iNELS controls all the lighting, for example the illumination of the aquariums
- speciality: there are no switches on the walls at all. Every light can be controlled via the 2 mounted tablets

Realization: ELKO EP Hungary

### Controlling

Appliances control

Lighting / Dimming

DALI integration / DMX integration

Automatic scenes

HVAC

GRMS

Monitoring center

Energy management

BMS integration





## Alancha Besiktas Istanbul, Turkey

- complex lighting control
- audio system
- HVAC and heating pump

Realization: ELKO EP Export

### Controlling

Appliances control



Lighting / Dimming



DALI integration / DMX integration



Automatic scenes



HVAC



GRMS



Monitoring center



Energy management



Audio / Video





## Roxanne's Bar Nicosia, Cyprus

- operation of atmosphere lights
- lighting scenes
- promo Video zones

Realization: ELKO EP Export

### Controlling

Appliances control

Lighting / Dimming

DALI integration / DMX integration

Automatic scenes

HVAC

GRMS

Monitoring center

Energy management

Audio / Video





## Literary cafe Cabinet Lviv, Ukraine

- A favorite spot for relaxing with a local buffet.
- A pleasant atmosphere is induced by a variety of dimmable zones and sound quality controlled by multi-functional LARA units.



Realization: ELKO EP Ukraine

### Controlling

- Appliances control ●
- Lighting / Dimming ●
- DALI integration / DMX integration ●
- Automatic scenes ○
- HVAC ●
- GRMS ●
- Energy management ○
- BMS integration ●
- Audio / Video ●



## Jamie's Italian Restaurant Budapest, Hungary

- iNELS BUS System is controlling lighting and terrace-cooling/heating
- high voltage neon signs, lighting control

Realization: ELKO EP Hungary

### Controlling

Appliances control

Lighting / Dimming

DALI integration / DMX integration

Automatic scenes

HVAC

GRMS

Monitoring center

Energy management

BMS integration





## The City of Prague Museum Prague, Czech Republic

- Audio-visual effects management
- Light scenes
- Scenes based on presence



Realization: iNELS Czech

### Controlling

Appliances control



Lighting / Dimming



DALI integration / DMX integration



Automatic scenes



HVAC



GRMS



Energy management



BMS integration



Audio / Video





## Factory Pro Fitness & Wellness Prague, Czech Republic

- Comfortable control of the fitness and wellness centre
- Supervision of the operation of saunas and whirlpools

Realization: iNELS Czech

### Controlling

Appliances control

Lighting / Dimming

DALI integration / DMX integration

Shutters / Blinds

HVAC

GRMS

Monitoring center

Energy management

Audio / Video





## Nikola Tesla Prague, Czech Republic

- 8 apartments
- LARA Intercom
- lighting control

Realization: iNELS Czech

### Controlling

- Appliances control
- Lighting / Dimming
- Appliances switching
- Shutters / Blinds
- HVAC
- GRMS
- Cameras
- Intercom
- Audio / Video







## Promeko

Olomouc, Czech Republic

- 27 apartments, 4 commercial
- heating, shutters, HVAC control
- video door-phone, intercom
- motion detectors and automatic light intensity in the communal areas

Realization: iNELS Czech

## Controlling

Appliances control

Lighting / Dimming

DALI integration / DMX integration

Automatic scenes

HVAC

GRMS

Monitoring center

Energy management

BMS integration





## The center of living Kaštanová Brno, Czech Republic

- 14 showrooms, 40 offices
- 200 dimming lights circuits
- DALI control of 45 circuits in the training room
- iNELS Multimedia

Realization: iNELS Czech

### Controlling

Appliances control

Lighting / Dimming

DALI integration / DMX integration

Automatic scenes

HVAC

GRMS

Monitoring center

Energy management

Audio / Video

Blinds

Access control





## Hyundai

### Nošovice, Czech Republic

- 736 pcs LED High Bay within retrofitted lighting
- central control DALI ballast via EDMC
- control of each zone from the touch panel via app

Realization: iNELS Czech

## Controlling

Appliances control

Lighting / Dimming

DALI integration / DMX integration

Automatic scenes

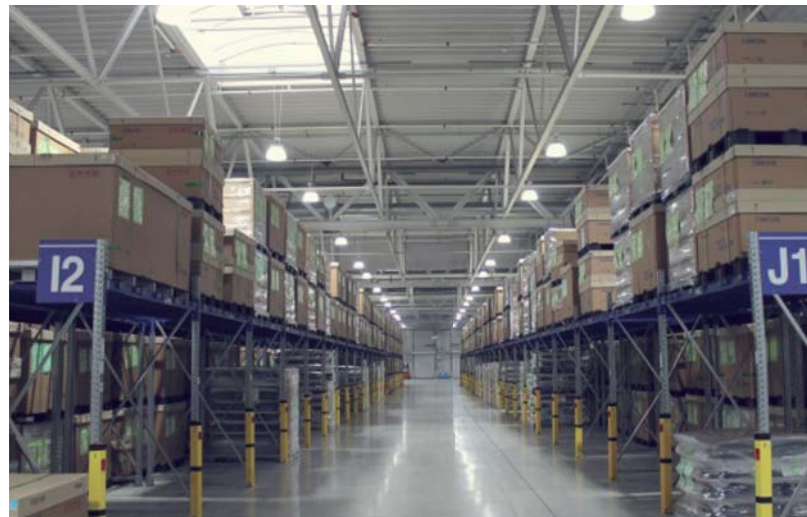
HVAC

GRMS

Monitoring center

Energy management

Access control





## BMW Showroom Moscow, Russia

- LED tray lighting control according to the outside twilight
- fire system
- security: detectors, cameras



Realization: ELKO EP Russia

### Controlling

- Appliances control ●
- Lighting / Dimming ●
- DALI integration / DMX integration ●
- Automatic scenes ●
- HVAC ●
- GRMS ●
- Monitoring center ●
- Energy management ○
- Access control ●



## Ferrari Showroom

Dubai, UAE

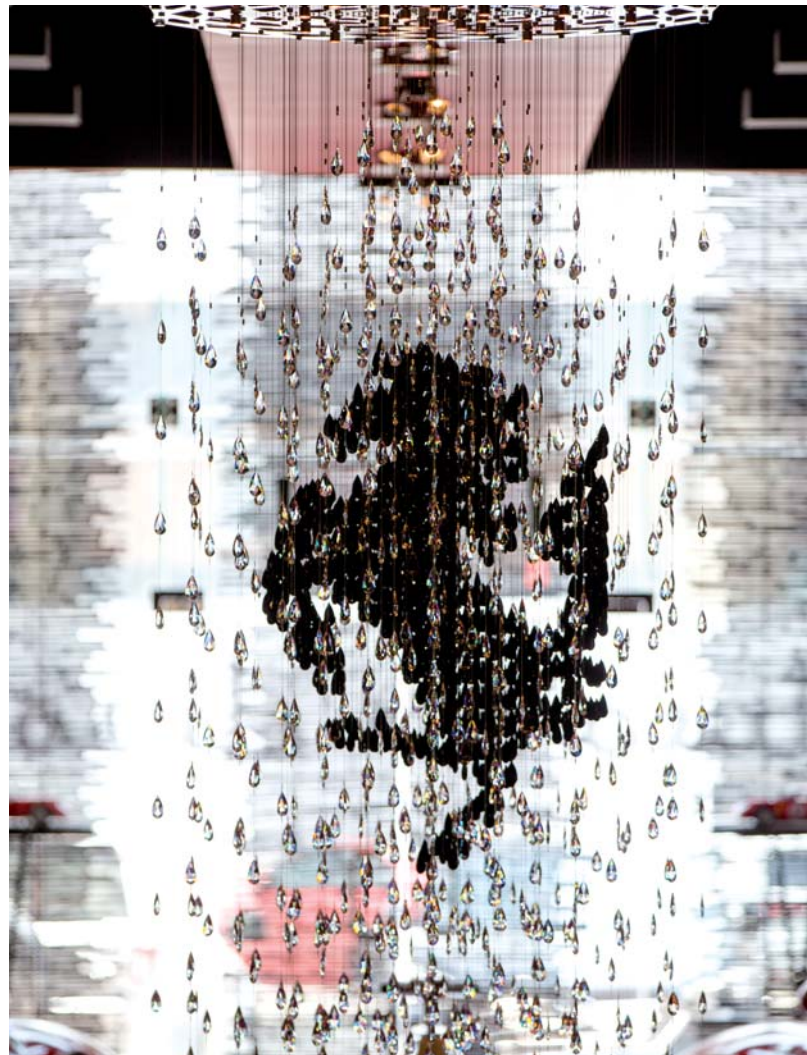
- lighting control in cooperation with Preciosa Lighting



Realization: ELKO EP Middle East

### Controlling

- Appliances control ●
- Lighting / Dimming ●
- DALI integration / DMX integration ●
- Automatic scenes ●
- HVAC ●
- GRMS ●
- Monitoring center ○
- Energy management ○
- BMS integration ○



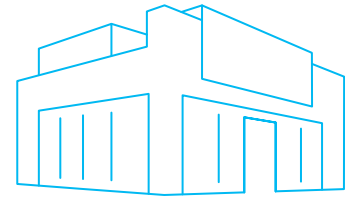
# SHOWROOM

ELKO EP operates several showrooms throughout the Czech Republic and around the world, where customers can come and interact with all the devices which can be touched and tested with their own eyes or hands.

Three are to be seen in Prague, one in Brno, Ostrava and Holešov. The Showrooms through the function panels covers all the areas that iNELS offers - relay, energy metering, lighting and much more.

[www.inels.com](http://www.inels.com)



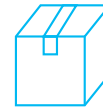


## Benefits



### Interactivity

You can try all the solutions offered by us yourself.



### All together

In our showrooms you will find the solutions and products offered as a whole.



### Professional staff

Anything you don't understand or need to know, you just have to ask.



### Easy accessibility

Showrooms are located in larger cities in the Czech Republic and their numbers will continue to increase.



## iNELS Café

### Prague, Czech Republic

- fusion of smarthome showroom and gastronomy bistro
- 70 seats in the 450 m<sup>2</sup> space
- from each table it is possible to control some features and setup the site via an iPad
- 4 tables with 32" full screen touch glass with special app
- individual 15 m<sup>2</sup> iNELS showroom

Realization: iNELS Czech

## Controlling

Appliances control

Lighting / Dimming

DALI integration / DMX integration

Automatic scenes

HVAC

GRMS

Monitoring center

Energy management

Audio / Video

Blinds

Access control







## Living showroom

### Prague, Czech Republic

- Designed residential showroom about 36 m<sup>2</sup>
- Control units are part of the interior
- Stage connection with projection and visitor needs
- audio/video system built-in

Realization: iNELS Czech

## Controlling

Appliances control

Lighting / Dimming

DALI integration / DMX integration

Automatic scenes

HVAC

GRMS

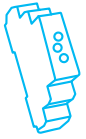
Monitoring center

Energy management

BMS integration

Audio / Video





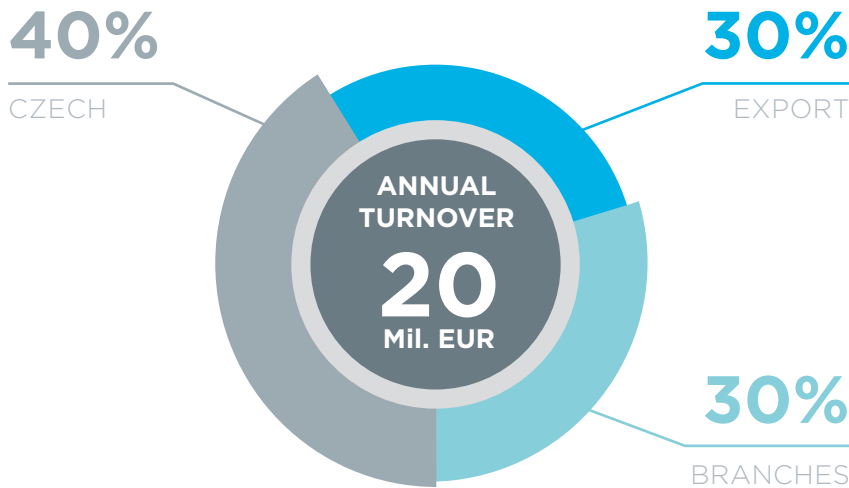
# Relays

ELKOEP is a world leader in the field of electronic relays development and manufacturing used in residential and industrial electro-installations. We offer more than 150 types of relays that

can be produced under well-known OEM brand names. We develop and implement products according to customer specifications as well as launch new products under brand names.



# Facts and Stats



**16**  
BRANCHES  
OVER THE WORLD

**70**  
EXPORTING  
COUNTRIES



**240**  
EMPLOYEES

**5 000**  
INELS INSTALLATION

**12 000 000**  
MANUFACTURED PRODUCTS

# ELKO EP Holding



[www.elkoep.com](http://www.elkoep.com)

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