

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. ELKOEP 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.

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Apartment & House 4–15



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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



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

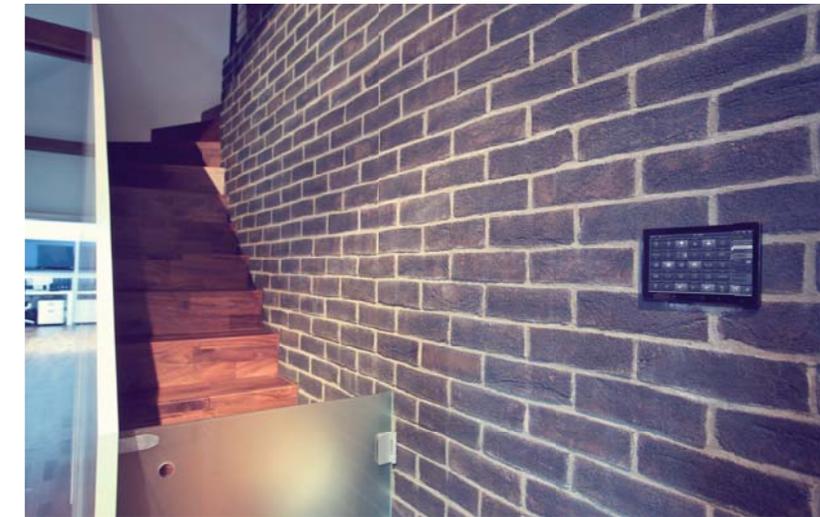
- 6 dimm, 25 switch lights
- shutters, curtains
- individual heating control



Realization: iNELS Czech

Controlling

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





Tegra House Vilnius, Lithuania

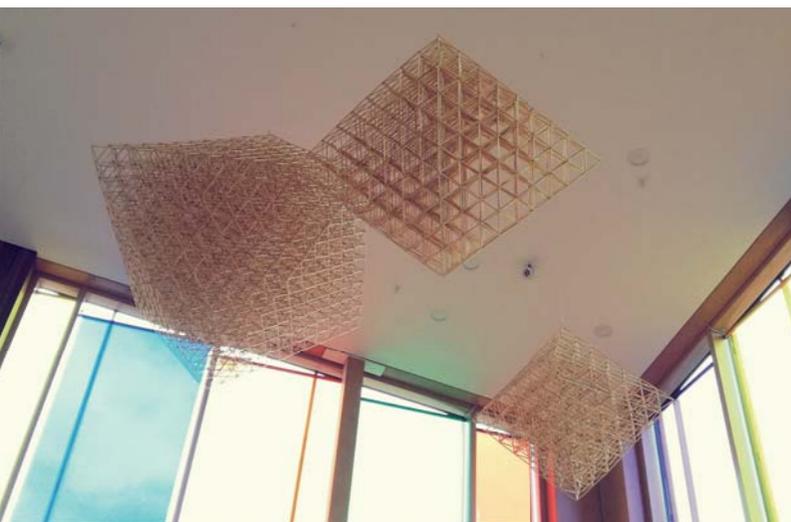
- wood passive house
- ventilation and shielding control
- camera system



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

- 3rd 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 ●



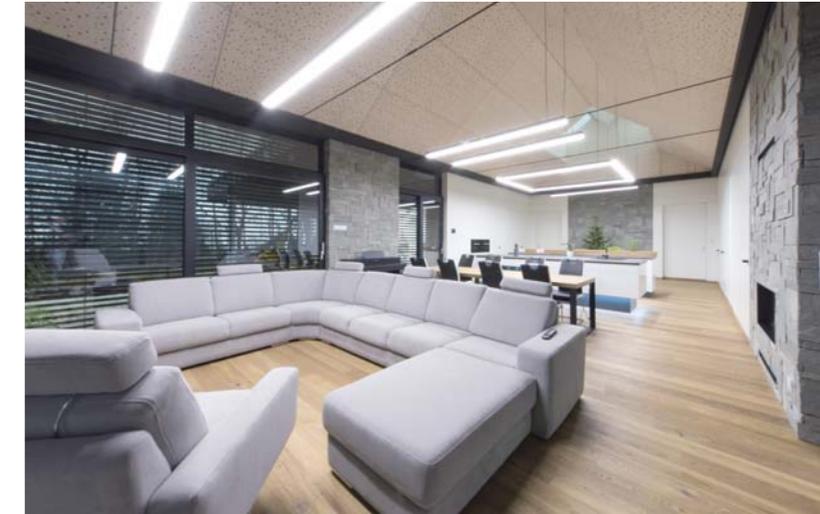
Villa Beskydy Mountain, Poland

- 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



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



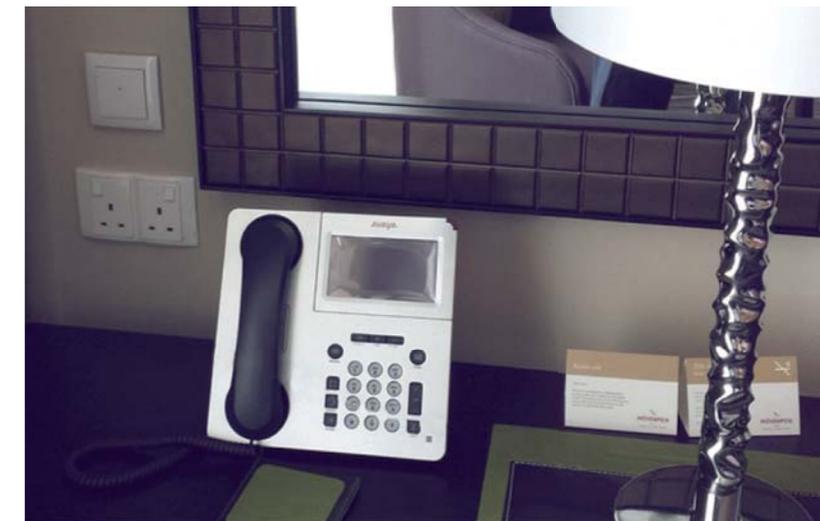
Movenpick Dubai, UAE

- 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



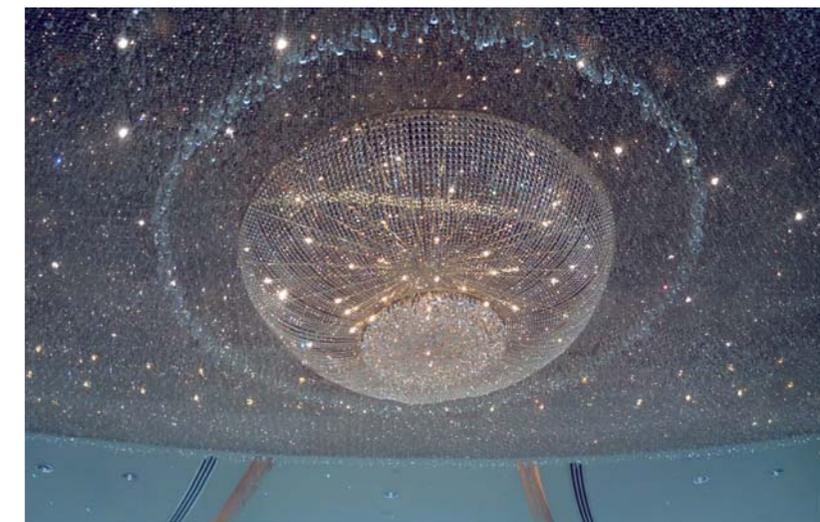
Meydan Dubai, UAE

- lighting control
- crystal chandelier
- stary 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

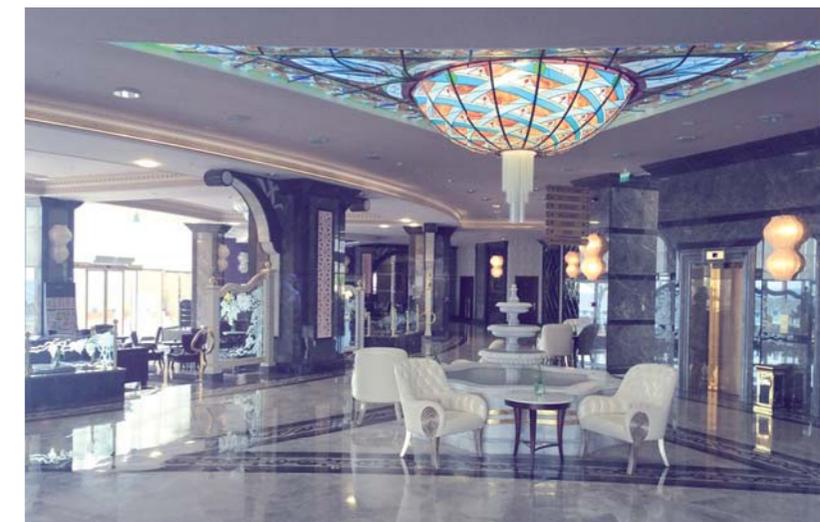
- 125 rooms
- complete management of hotel rooms
- scenes: arrival/departure and day/night
- Guest Room Hotel Management System



Realization: ELKO EP Export

Controlling

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





Hotel Kempinsky Bayertek 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

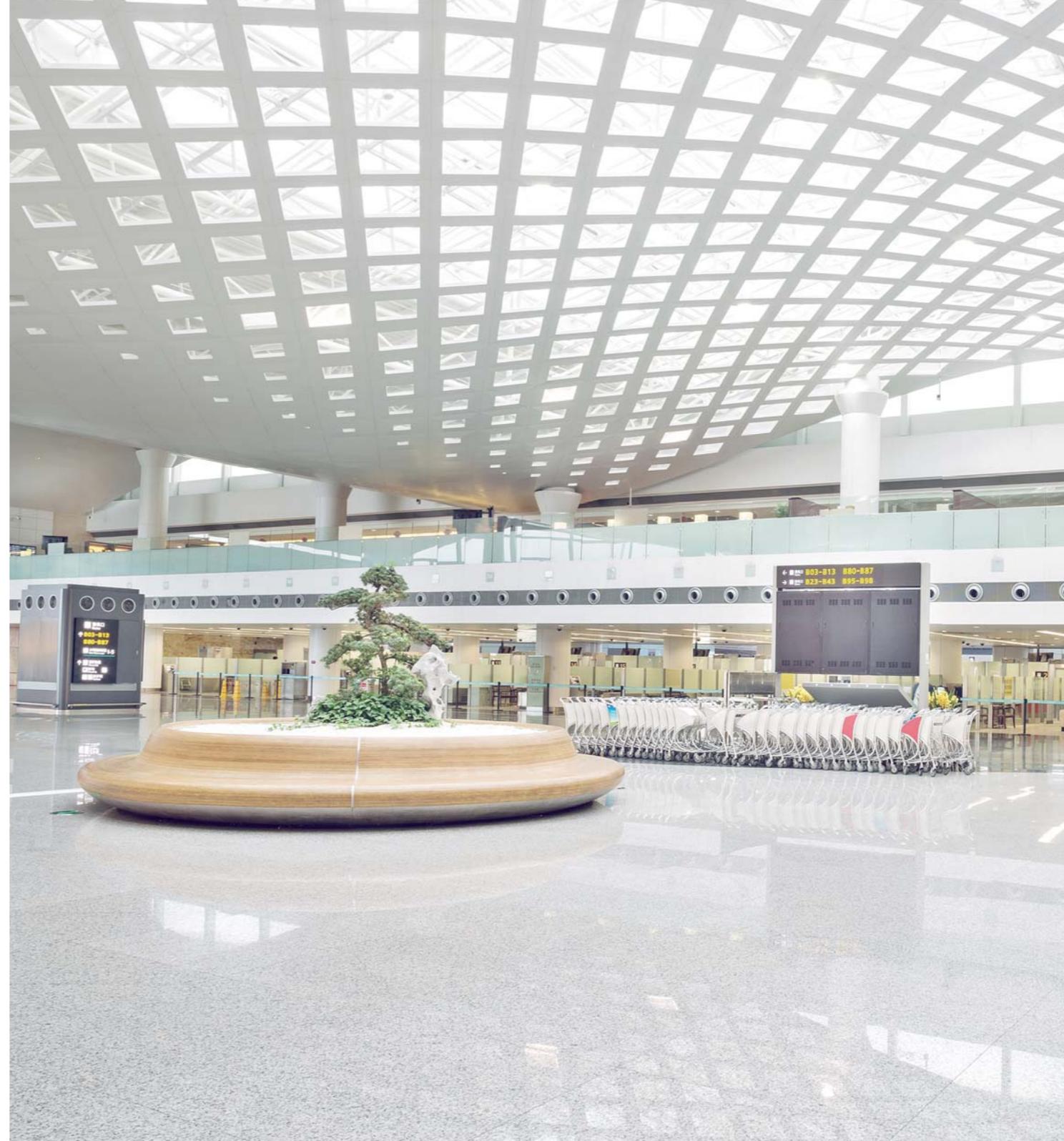
iNELS finds more and more application in the wide sphere of commercial buildings – stores, offices, restaurants, hospitals, but also in historical buildings or manufacturing halls.

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



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 ●



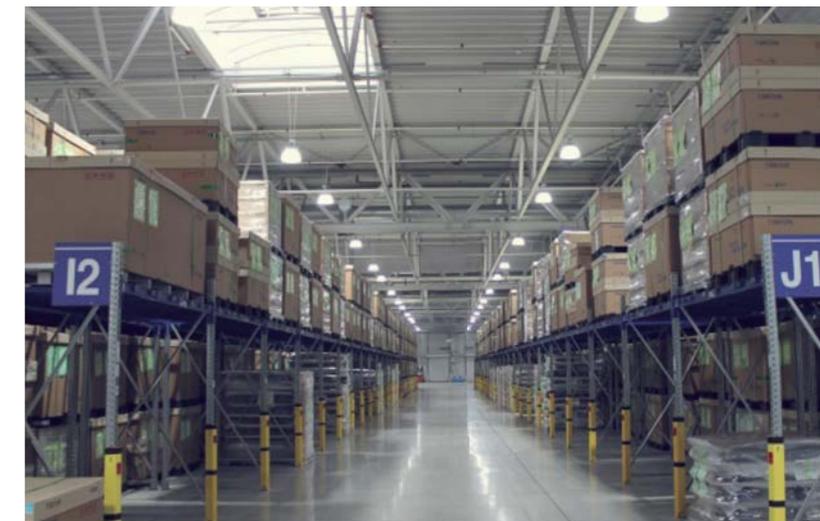
Hyundai Nošovice, Czech Republic

- 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

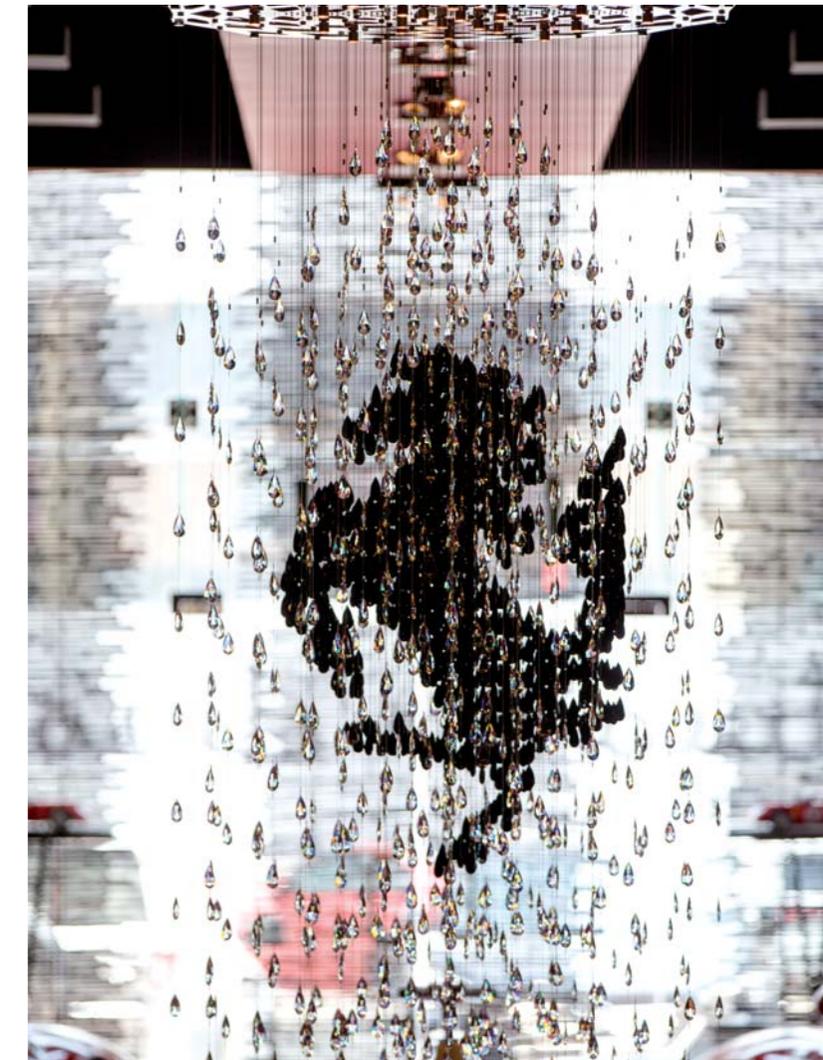
Controlling

- 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

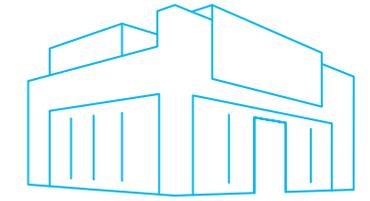
Controlling

- 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.



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 m² 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 m² 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 m²
- 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 ●



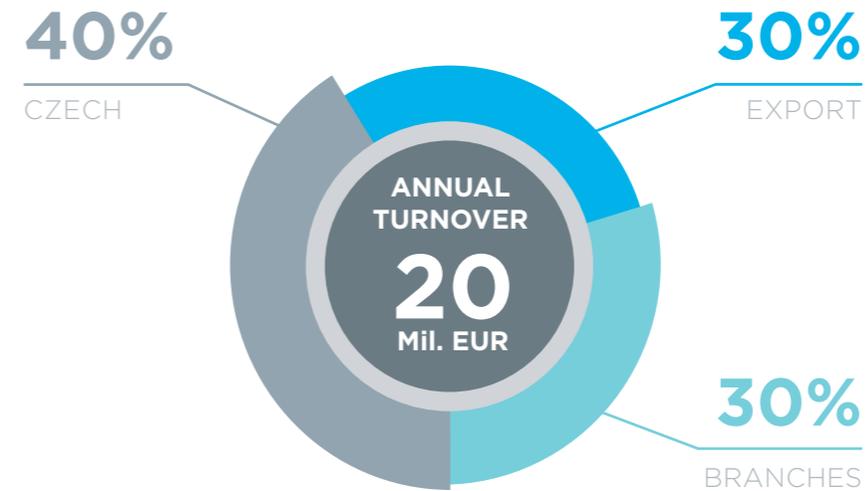
Relays

ELKOEPIs 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.

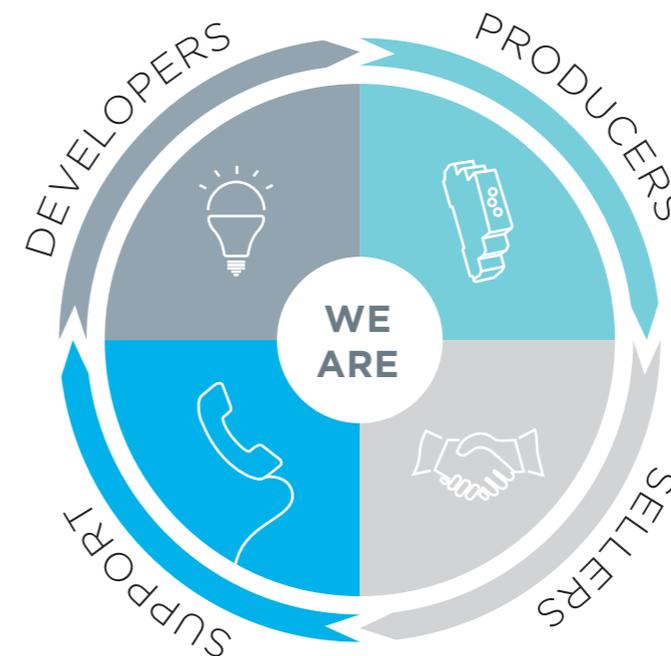


Facts and Stats



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

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