



we make  
world smarter



# EDITORIAL

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When I was twenty and freshly trained in electronics, and I engineered my first time relay, I had no idea that today I would be controlling it from a smartphone apps. The dynamic development of IT technologies as well as Internet of Things also permeated a bit later in controlling electrical installations, creating a whole new field called the "Smart Home". What separates us from the competition is not only our flexibility and ready approach to custom modifications, but also the desire to "Always something more!" We invest a substantial part from this into developing systems of intelligent electrical installations. Our iNELS, which either wirelessly or via bus covers now controls several thousand buildings throughout the world. In a few years of hard work of the entire development department we have elevated iNELS to a complex system involving not only the switching of appliances, dimming of lights or control of blinds, but also control of security, HVAC, the camera surveillance system, audio and video distribution - the list goes on...



So right from your smart phone, you can control the washing or coffee machine, the A/C or home theater system. We are a traditional and at the same time innovative purely Czech manufacturer of electronic devices and we have been your partner in the field of electrical installations for 30 years. Thanks to many years of experience and operation on the electrical market, we have become specialists in electronic modular devices - relays, of which we already produce more than 300 types. Our own production, modern devices, development and research center - all these allows us to direct the development towards the most popular technologies of today, the smart wiring system iNELS. Thanks to the fact that everything is developed and manufactured so-called „in-house“, you can be sure that everything works as it should.



Our technicians, who carry out regular training of partners, are also helpful to you - whether you are starting out or you have advanced successfully in the field. To be always close to our customers - whether with technical support or a well-stocked warehouse, you will find our branches in 11 branches around the World. In addition, we have steadfast customers in more than 70 countries around the world, and more are constantly being added as the demand for our products grows. We are honoured that you can be with us.

Jiří Konečný

Founder and CEO of the ELKO EP HOLDING

- ① Training center
- ② Warehouse
- ③ Testing lab
- ④ Research & Development centre
- ⑤ Administration building
- ⑥ Manufacturing hall

# HISTORY OF THE COMPANY

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1993



**Roštění**

garage  
20 m<sup>2</sup>

**Products:**

switching power units  
for electrical heating

**Technology:**

manual mounting and soldering

1995



**Roštění**

a former elementary school  
200 m<sup>2</sup>

**Products:**

first modular  
time relay

**Technology:**

first Semi-Automatic SMD  
Pick&Place Machine, 20% share  
of SMD components

2001



**Holešov**

the former headquarter of LOANA  
1 000 m<sup>2</sup>

**Products:**

complete range  
of monitoring relays

**Technology:**

2× SMD Pick&Place Machines,  
soldering line, reflow

---

**Employees: 3**

**Employees: 15**

**Employees: 82**

2015



### Holešov

big space means big challenges  
more than 8 000 m<sup>2</sup>

#### Products:

iNELS smart system

#### Technology:

2 fully automatic SMD lines, lead-free  
soldering, laser printer, automated  
testing, own lab

**Employees: 170**

2021



### Holešov

product innovation,  
robot implementation

#### Products:

Rounded corners for glass controllers

#### Technology:

extension of  
robot machines

**Employees: 330**

2023



### Holešov

productivity increasing,  
lean manufacturing

#### Products:

miniCU – worlds smallest central unit  
RF Touch 2 – 4" wireless touch controller

#### Technology:

workplace for high-tech products  
own nitrogen production

**Employees: 350**

# FACTS & STATS



**>30 000**  
iNELS  
installations



**350**  
Employees  
over the world



**>30 000 000**  
Manufactured  
products

**11**

Branches

**5**

Franchises

**70**

Exporting  
countries



## DEVELOPERS

In the new R&D centre, more than 30 engineers develop new products and extend the functionality of existing product.



## PRODUCERS

Modern antistatic spaces, 2 × fully automated SMD production lines with 2 shift operations.



## SELLERS

Personal access to more than 70 sales representatives in ELKO EP Holding providing impeccable services and superior products at an affordable price.



## SUPPORT

24 hours / 7 days / 360 days we not only provide technical support but also logistics.



We are

**the world leader**

in production of time relays

# MILESTONES



1993

Jiří Konečný started business in this field, in his garage. First product, leaving the garage, was switching power units for electrical heating.



1997

The company ELKO EP Ltd. was founded. The company becomes the practical dominant producer of modular devices in the Czech Republic.



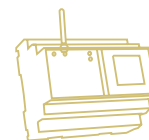
2002

First branch office ELKO EP Slovakia. Export was started.



2005

New production and office spaces in Holešov-Všetuly. New branch offices ELKO EP Poland and ELKO EP Hungary.



2006

Intelligent electro-installation iNELS BUS launched to the market.



2012

The company of the year in Zlín region / 2<sup>nd</sup> place in The company of the Czech.



2014

Awards for LARA and Smart RF Box. Further development of our products is ongoing.



2015

Wireless system iNELS scores – winning the prestigious award Visionary 2015. New branch ELKO EP Saudi in Riyadh.



2016

Own test lab opened. Award for iNELS Future office.



2017

Introducing the product line IoT iNELS Air. iNELS Smart City concept launched.





2007

R&D and a new hall. Obtaining UL certificate for USA market.



2008

Intelligent electro-installation iNELS RF (Wireless control) launched to the market. Exclusive distributor of ETI.



2009

Branch office ELKO EP Ukraine. Exclusive distributor of sockets and switches LOGUS<sup>90</sup>.



2010

iNELS Multimedia launched to the market. Awards of "Innovation of the Year" for RF Touch.



2011

"Gold Amper" award for RF Touch / New warehouse. Establishing ELKO Lighting Ltd.



2019

Smart pole as the basic pillar of the Smart City.



2020

The smallest central unit in the world was manufactured - miniCU (CU3-07).



2021

RF Key key fob innovation with 4 and 6 buttons and a new elegant design of RFGB controllers.



2022

Product innovation RF Touch 2 and Thermo valve RFATV-2.



2023

Glass Thermostats RFTC and first Matter products

# STEPS TOWARDS AUTOMATION, QUALITY AND EFFICIENCY

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Since its establishment in 1993, ELKO EP has been a significant innovator in the field of development and production of electronic devices and solutions for home, office and industrial automation. It launches dozens of improvements every year - and today it is one of the European leaders in the field and the largest Czech exporters.

In addition, unlike many of its competitors, it has maintained its production and development facilities under one roof throughout its existence. Today, directly at the company's headquarters in Holešov, it produces tens of millions of products every year, which it supplies to order to the world's leading companies or directly to end customers.

Today, it has branches in 15 countries around the world, and the company and its owner have been awarded many times for the precision of their production, innovative approach to development and business results - Visionary of the Year, Global Exporter, Entrepreneur of the Year or Czech Super-Brands in 2019, 2020, 2021 and 2023.



100%  
Made in Czech



5 years warranty  
as standard



Own development



Manufacturer  
support

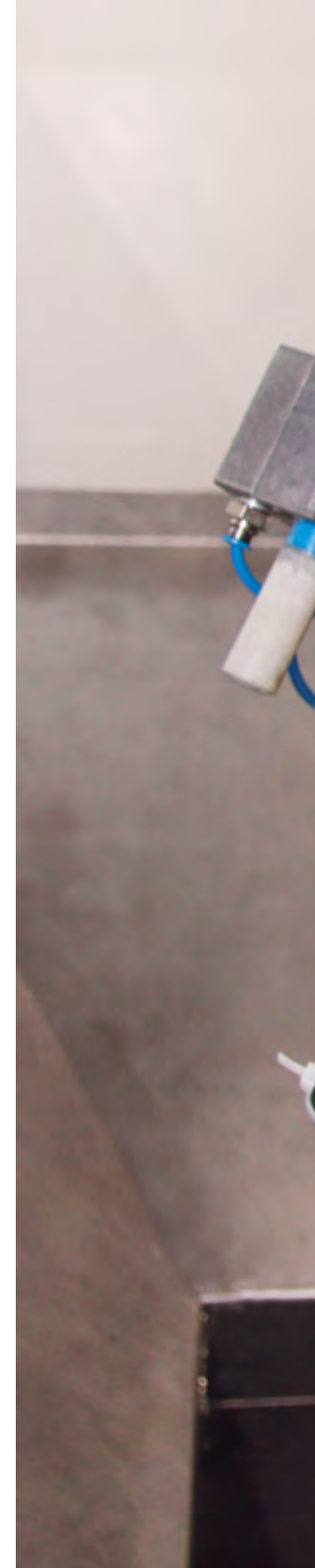


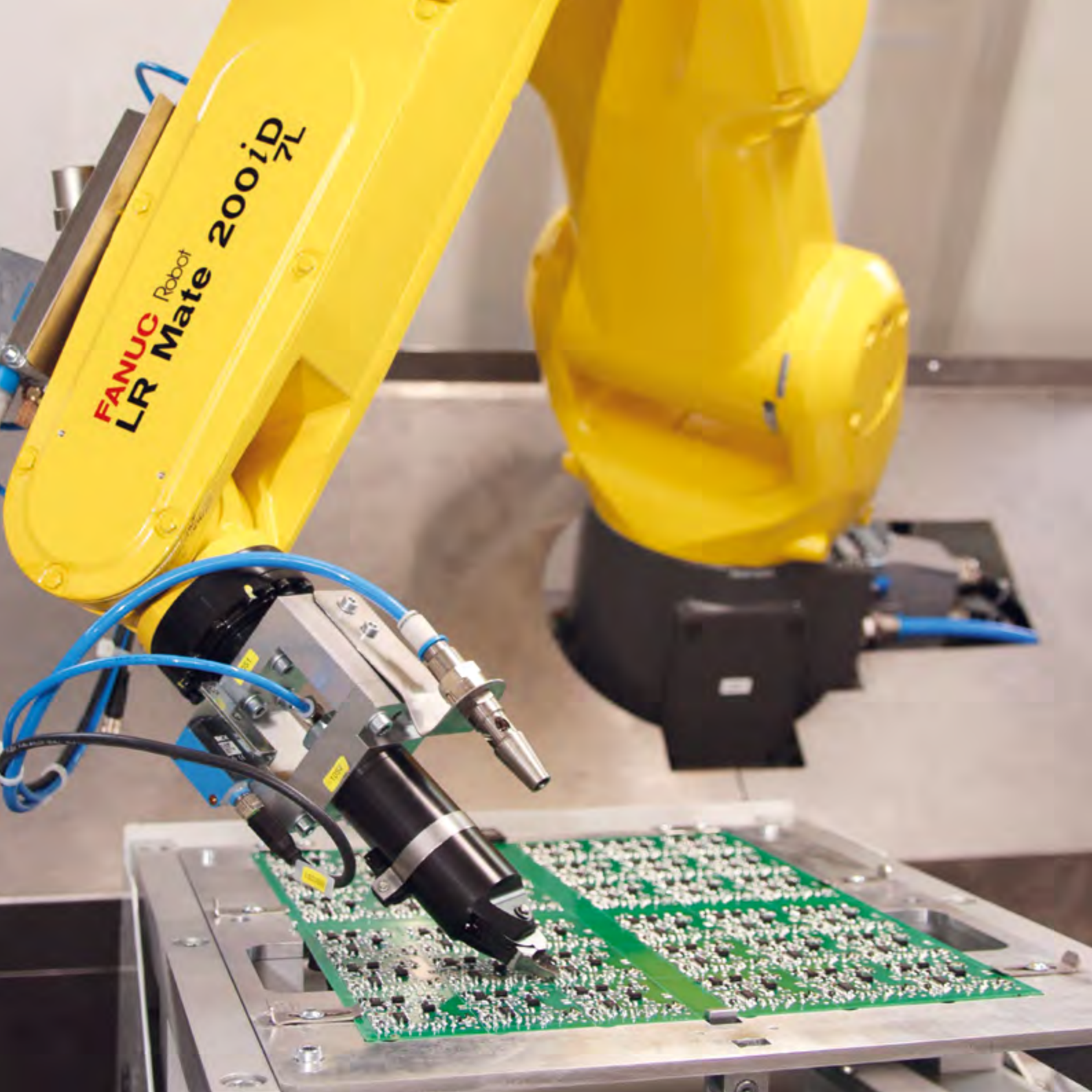
Accredited testing  
laboratory



Ecological friendly

Cutting  
robot





**FANUC** Robot  
**LR Mate 200iD**  
7L

# ATTAINED AWARDS & MEMBERSHIP

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Jiri Konecny  
Entrepreneur of  
the year



Company ranked  
among the 100 best  
Czech companies



Vodafone  
Company of  
the year 2012



Jiri Konecny  
Personality of  
Smart city 2017



Czech Top 100  
admired companies



Industry 4.0  
Award



Golden Amper for  
"iNELS Wireless"



ELA award for  
"RF Touch"



ELA award for  
"LARA"



Czech Business  
Superbrands



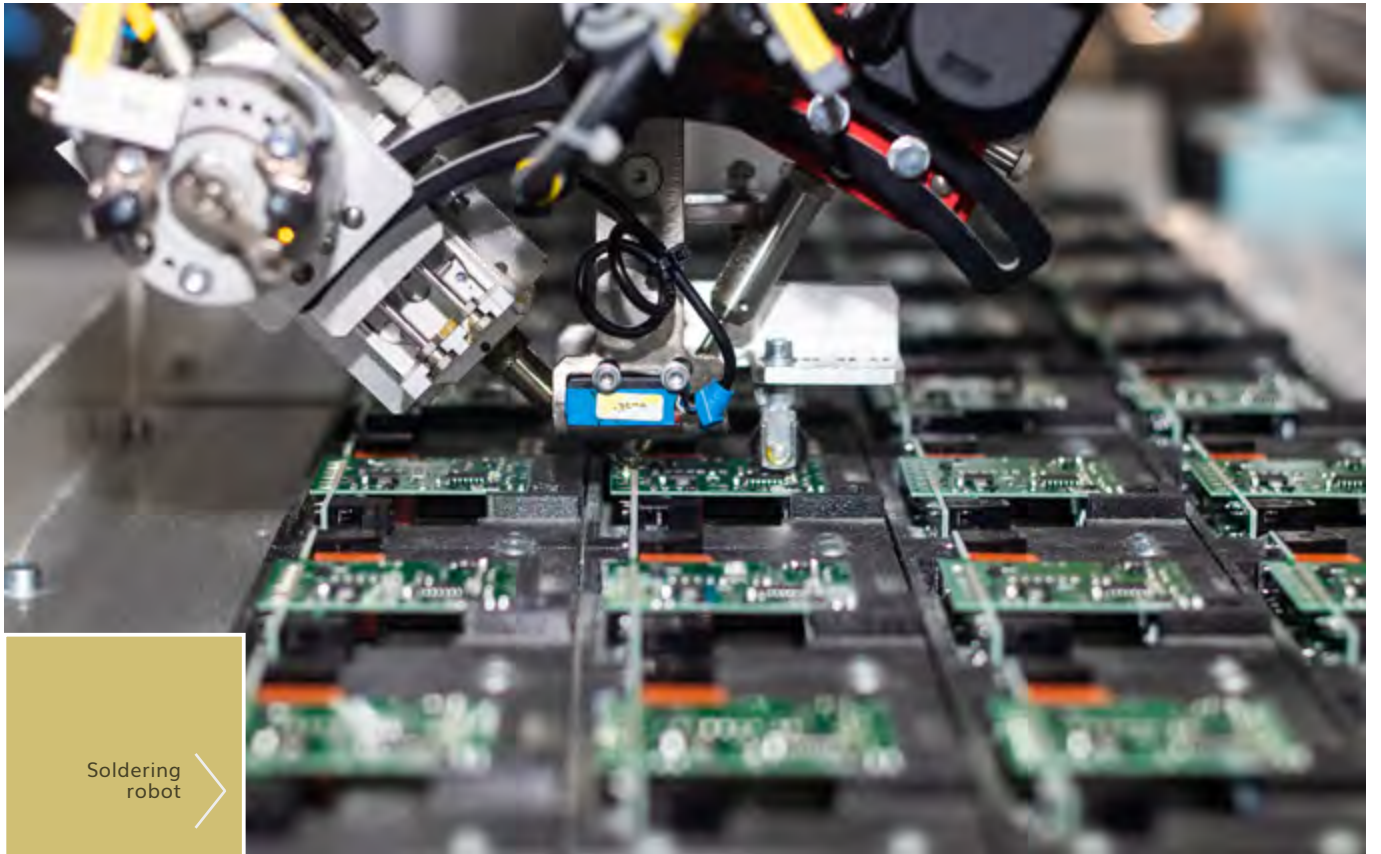
Custom Electronic  
Design and Association



The Electrical and  
Electronic Industry



Connectivity  
standards alliance



Soldering robot



Test lab

# HIGH LEVEL OF TECHNOLOGY ALLOWS US...

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Just as we place high standards on the final product, we strive to use the most advanced technologies that allow us to produce these sophisticated devices.

Assembly machines can now assemble chips to 0402 size and with their 10 heads handle up to 80,000 parts / hour.

## Smart products in Smart Factory:

- On-line monitoring of production and semi-finished products via unique QR codes
- Paperless documentation – data is distributed via terminals
- Online monitoring of productivity, quality and the utilization of machines
- Full antistatic environment
- High degree of automation and robotics



RF Touch 2/B

# ...TO MAKE HIGH-TECH PRODUCTS



# TESTING & CERTIFICATION

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The company ELKO EP has had its own testing laboratory for more than 15 years, which is certified and accredited according to EN ISO / IEC 17025: 2018. During this time, the laboratory has gained experience in performing development tests and tests for conformity assessment not only of our own products, but also of many other electrical equipment used in industrial processes and in households.

In 2016, the laboratory underwent a major reconstruction in an effort to expand the portfolio of tests performed and increase its operating capacity. The laboratory enables the performance of tests in the field of electromagnetic compatibility, electrical safety tests, durability tests and specific functional tests.

We are not keeping pace with IEC / EN standards - we are one step ahead. We design and test products to withstand the harsh conditions from Siberian frosts to the harsh temperatures in the Middle East.





## Processing certification



ISO9001  
Production and  
development quality  
management system



ISO14001  
Environmental  
management  
system



ISO17025  
Testing laboratories  
acreditation

## Products certification



CE  
Declaration  
of conformity



FCC  
USA



underwriters  
laboratories  
USA

# EVOLUTION OF THE SWITCH

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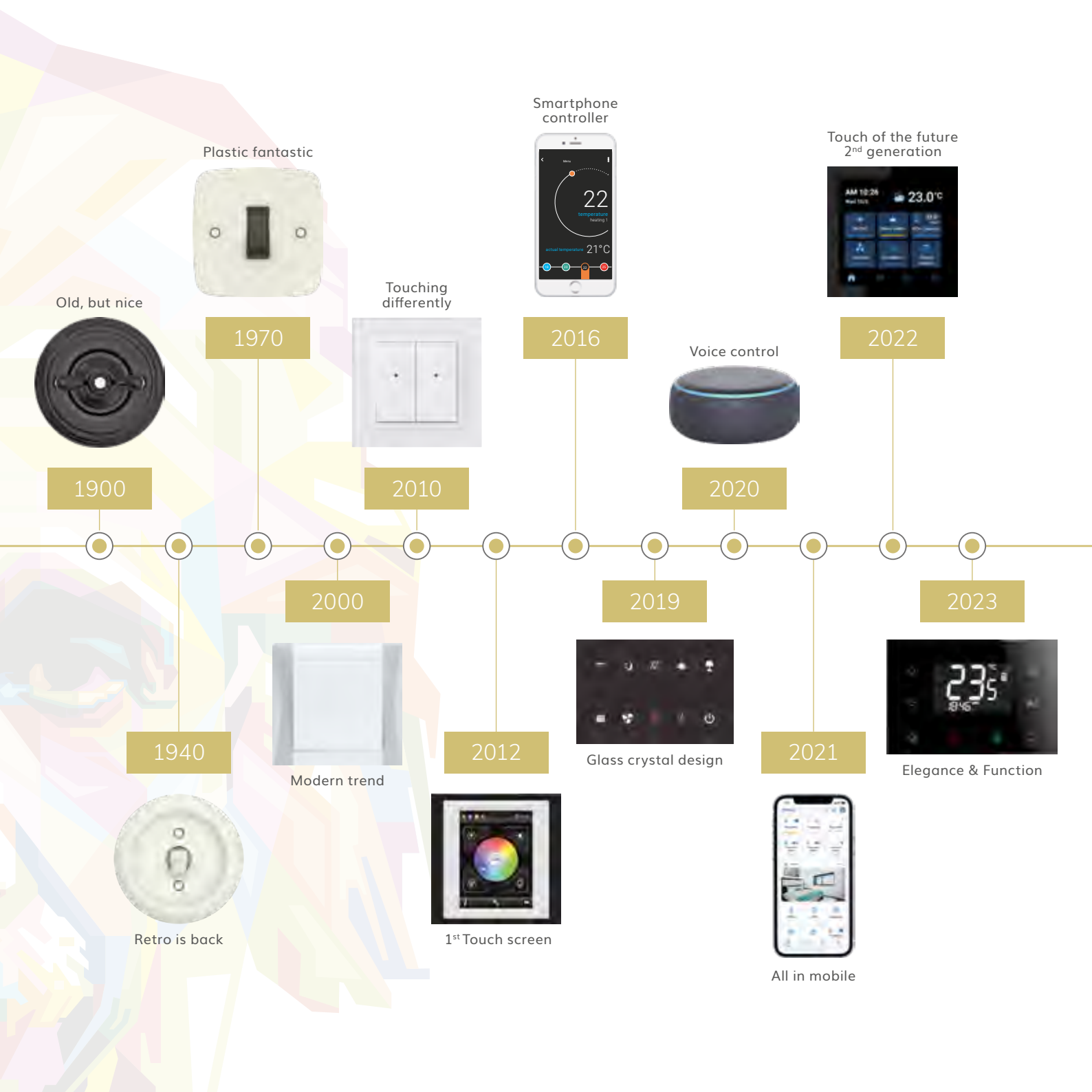
## Einstein would be surprised...

While its location has not changed much since the end of the 19<sup>th</sup> century, its functions are virtually limitless.

Power contacts are replaced by buttons with low upstroke and safe voltage. Wires disappeared and pressure has been replaced by capacitive pads or a touch screen.

Today we already know well what will come next.





Old, but nice



1900

Plastic fantastic



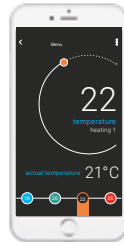
1970

Touching differently



2010

Smartphone controller



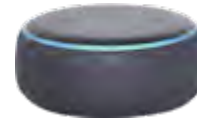
2016

Touch of the future  
2<sup>nd</sup> generation



2022

Voice control



2020

2000



Modern trend

1940



Retro is back

2012



1<sup>st</sup> Touch screen

2019



Glass crystal design

2021



All in mobile

2023



Elegance & Function

# PRODUCTS

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Timers / Relays



Protection & monitoring  
relays



iNELS Wireless  
electroinstallation



iNELS Wireless  
Hotel Retrofit (HRESK)



iNELS Hospitality  
(GRMS)



iNELS Wired  
electroinstallation



Switches & sockets outlets



Software



Green Solar

# SOLUTIONS



Relay for home installations



Smart Apartment



Connected Home



Smart kits



Smart Buildings



Future Office



Hotel



Renewable energy



Industry

# INDUSTRY

In industry, RELAYS are an essential part of every electrical installation and machine. Our relays offer a full-fledged industrial automation solution. In addition, for example, a new range of monitoring relays for monitoring machines and equipment in production they are ready to measure quantities with an accuracy of up to 2 %, which sets them apart from the cheaper competition.

RELAYS are designed to withstand the demanding operating conditions in industry and can be used in a variety of territories.



Timers



Auxiliary relays



Frequency relays



Voltage relays



Current relays



Power factor relays



Thermostats



Multifunction time relay



Digital thermostat



Power factor monitoring relay



Multifunction time relay plug-in



Current monitoring relay



ELKO

10 | 15 | 18 | 28 | 25 | 26

15 16 18

15 18

15 18

9 9 9 9 9

9 9 9 9 9

A1 A2 T1 T1 T2 T2

EXT. LED OUTPUT 3 3 4 5 6

ELKO

9843

START DELAY

PROBE DELAY

FUNC L1

FUNC L2

FUNC L3

L1

L2

L3

ELKO

START DELAY

PROBE DELAY

FUNC L1

FUNC L2

FUNC L3

L1

L2

L3

ELKO

MANSENS 4-6

PROBE CAL

FUNC L4

FUNC L5

FUNC L6

L4

L5

L6

ELKO

1 OFF

2 OFF

16-SEP-10

18:52

TERMINAL

MAN

ESC

OK

RESET

15 18

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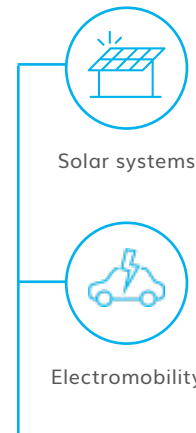
15 18

15 18

# HOME INSTALLATION

In home wiring, relays are used for a variety of purposes, although they are not always visible. A stair switch times the light in the hallway or the fan in the bathroom, the dimmer adjusts the intensity of the lighting, the level switch monitors the water level in the well, the switch clock controls various devices in real time, and the voltage monitoring relay protects appliances from overvoltage.

The current need today is the management of energy from renewable sources, such as solar panels or wind turbines. Relays decide on the efficient use of the energy obtained in this way, for normal operation, recharging of electric cars or storage in batteries. At the same time, they monitor their consumption, manage optimal operation and report to the owner.



Super-multifunction relay



Level switch with probe



Universal dimmer



Memory relay



Multifunction time switch





# FROM A SINGLE COMPONENT TO A SMART BUILDING

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## Installation that grows with you

Our products are not available to the ordinary person, on the contrary. They are perfectly modular - you don't have to start with a complete electrical installation, but feel free to choose from small useful little things to complete house automation. From relays, key fobs, lights, dimmers or touch panels.

You will find our products in most good electrical equipment stores. In newly designed, clean white boxes with ELKO EP inscriptions. With the certainty of a well-manufactured product, guaranteed technological level and a long warranty.

Do you know that they work even without wiring?



## POINT TO POINT

Individual elements of the iNELS system for personalised installation.

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## KITS

Pre-Set elements for everyday applications.

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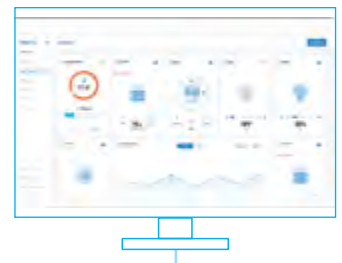
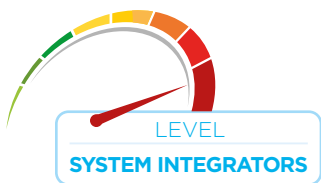
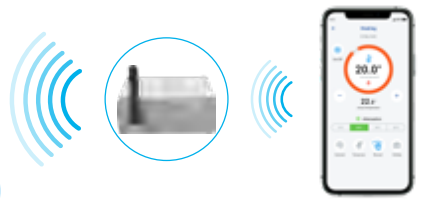
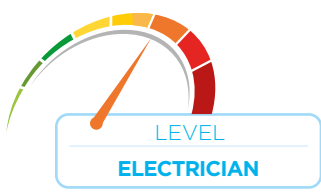
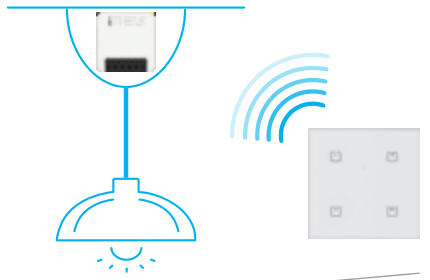
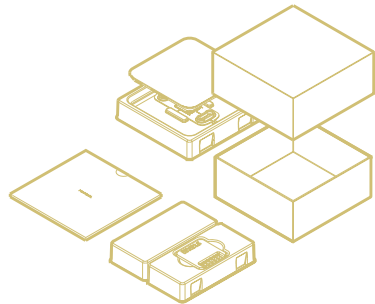
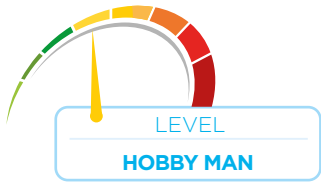
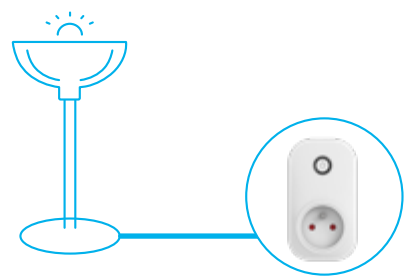
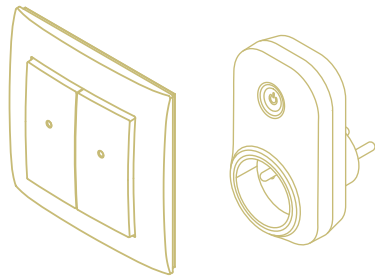
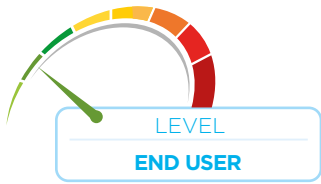
## CONNECTED HOME

A simple solution to turn your house into a smart home, without any structural intervention.

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## SMART BUILDING

When using wireless elements is faster and cheaper.



# SMART FLAT & APARTMENT



## Wireless electroinstallation

Why choose „wireless“? Because you get unlimited possibilities that you will never experience with a classic electrical installation.

Savings comfort and safety - everything you expect from a Smart Home solution. But in the case of wireless wiring, you have one more major advantage. You do not have to undertake any extensive construction modifications whenever you decide on any further change. You just move the controls and switches; you just buy new functions or products. You will get a household that will always keep up with new trends.



Switching & Dimming



Thermovalve



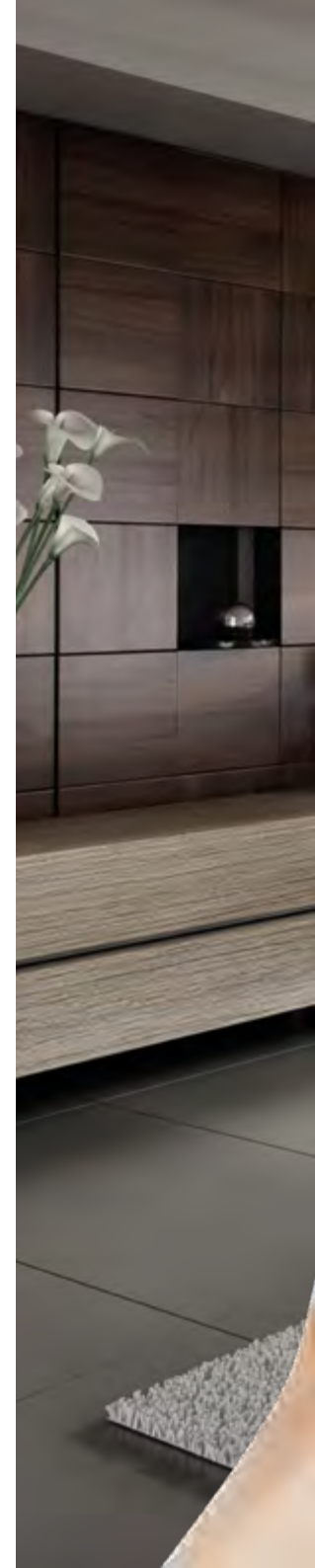
Wall controller



Key fob



RGBW dimmer



iNELS



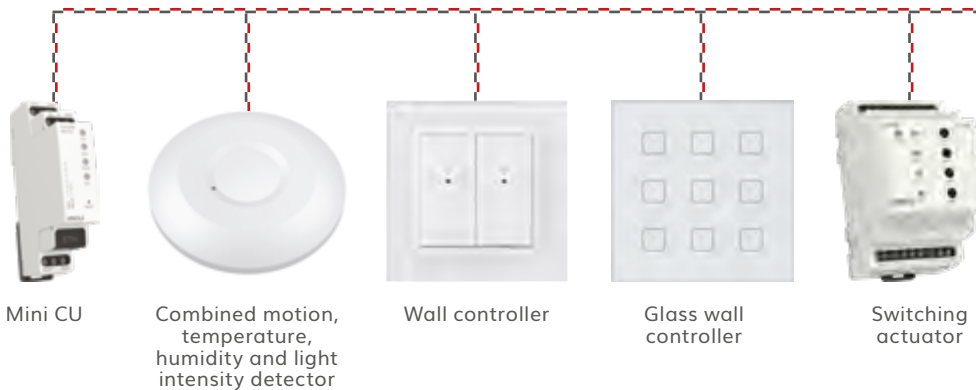
# HOUSE & VILLA



## Wired (BUS) smart electroinstallation

Why choose the bus options? It is simple, because you will be reimbursed several times over time, and it will bring a lot of extra comfort.

The system is incredibly modular and flexible. Compared to conventional electrical installation, it brings unlimited possibilities of savings. It has been proven to save up to half of energy expenditure and half of adverse environmental impacts. It unquestionably saves a load of nerves thanks to smoke detectors, flood probes or motion sensors.



INELS



BUS

VIDĚT VÍCE >



# HOTEL ROOM RETROFIT



## For existing hotel rooms

Do you need to modernize the hotel? There is nothing easier than equipping it with smart technologies. Quick, easy, without drilling or excavating.

The HRESK wireless solution uses communication via a wireless signal. The controls can be mounted anywhere without any cables directly on the furniture, glass wall or in the luminaire. Screw a wireless LED bulb directly into the luminaire, which you can regulate using wall controls. The system can also be extended with wireless motion detectors, window or door detectors or temperature controllers. By deploying the system, you will achieve economical operation of the hotel room and the guest will feel perfect comfort. An extra star for you hotel.



FCU actuator



Occupancy detector



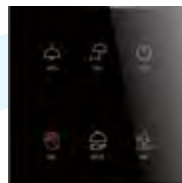
Wireless bulb



Switching /  
Dimming



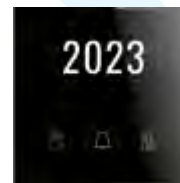
Window / door  
detector



Glass touch  
controller with  
local relays



Glass touch  
thermostat



Front door  
unit







**iNELS**



SEE MORE >



# GRMS = GUEST ROOM MANAGEMENT SYSTEM

## For new hotel rooms

If you are preparing a new hotel, you have to reckon with smart technologies. Today they are no longer above standard, but an absolute necessity. Let your guests feel really good about you. From opening the door via the hotel's RFID card or by phone, to setting the atmosphere in the room with an elegant touch panel with an intuitive interface - control the temperature, lighting, shading or music scenes. All these in an attractive glass design in black or white. Because we are primary manufacturers, we offer you customized design modifications in the interior style.



**iNELS**

  
**BUS**

SEE MORE >



iNELS GRMS

ACCESS

+

AUDIO

+

VIDEO

+

HVAC

+

Electricity



# BUILDING MANAGEMENT SYSTEM

## When technologies work together

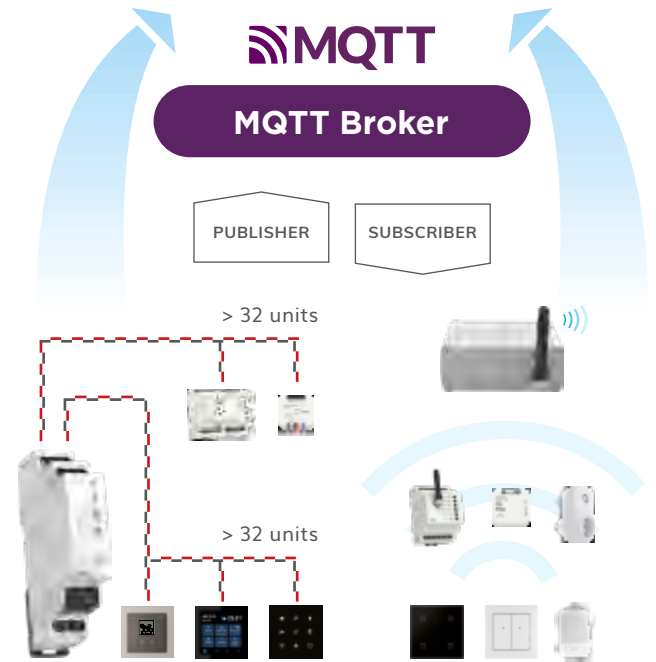
BMS is an integral part of every modern building. In addition to controlling it, it also integrates the various technologies in the building into one unit. Modern buildings emphasize energy consumption, safety, a healthy user environment, quality and fast services, maximum use of IT technologies and automatic operation. This can only be guaranteed by thoroughly connecting the sensors and actuators of the various systems.

iNELS central units communicate via the superior system via the MQTT protocol.

niagara  
framework®

**NETX**  
AUTOMATION

SKY  
THINGS



Central unit



Switching actuator,  
(22-channels)



Universal dimmer,  
(6-channels)



Combo I/O unit



Lights



IoT



HVAC



Environmentally friendly  
(Green Building)



Conference and meeting  
rooms booking



Energy  
management



Software, applications,  
platforms



Healthy  
park



RTLS  
(Real-Time  
Location System)



Security



Controlled  
outdoor  
lighting



Payment  
terminal



Waste  
management



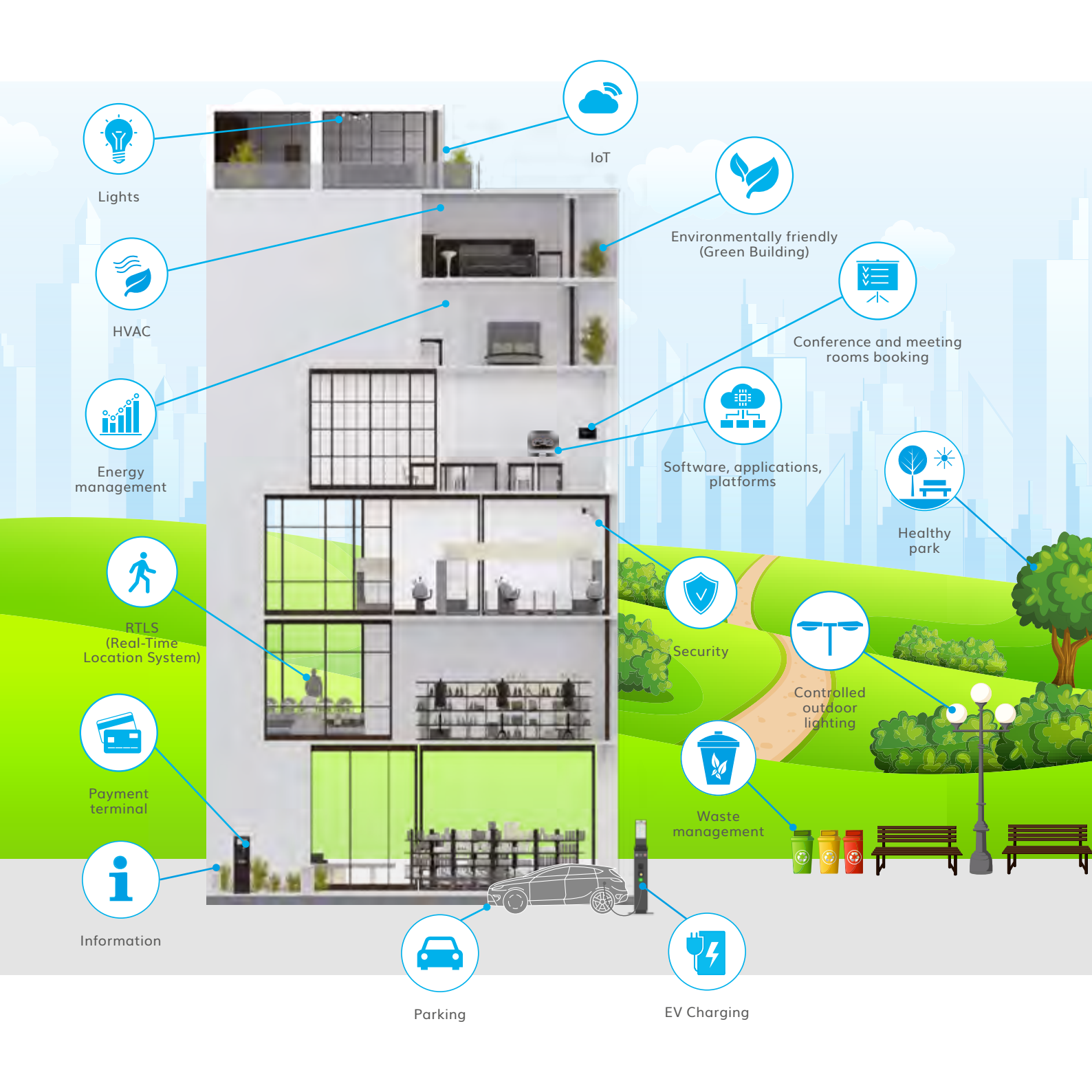
Information



Parking



EV Charging



# INTEGRATION

## When the technology in the house understands each other

Every modern house includes a variety of technologies that provide essential things such as heating, ventilation, shading, security, as well as "extra" things: audio/video distribution, swimming pool, irrigation and more.

The iNELS Bridge connects and controls these technologies through the Home Assistant app. This allows you to use only one app on your phone without having to switch between several different ones.



EasyIO® iRidi

NETX  
AUTOMATION niagara  
framework

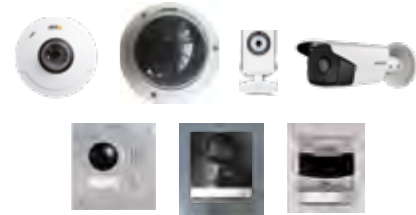
Opera B FLOWBOX

GREE HITACHI  
Inspire the Next  
Haier TRANE  
MITSUBISHI  
ELECTRIC COOLING & HEATING SAMSUNG  
TOSHIBA DAIKIN IntesisBox®  
Panasonic LG

CRESTRON PHILIPS  
hue tuya®

LUTRON ZWAVE KNX

somfy. Control4



DAHUA TECHNOLOGY HIKVISION 2N  
An Axis company

VingCard  
Elsafe HID®

Onity SALTO  
inspiredaccess

dormakaba

Opera synXis  
Driving Distribution

infor MEWS

TravelClick®  
TRAVEL | RESERVE | CONFIRM | BOARD

# THE BEST FOR THE BEST

ELKO EP is a world leader in the development and production of electronic relays for domestic and industrial wiring. We manufacture more than 200 types of relays. Not only under our own brand but also in OEM design for the world's biggest players.







# REFERENCES

Private palace  
Riyad, Saudi Arabia



Relays, iNELS wireless, iNELS BUS, ELKO Green-Power. There are millions of manufactured products, and thousands of references that make the world smarter.

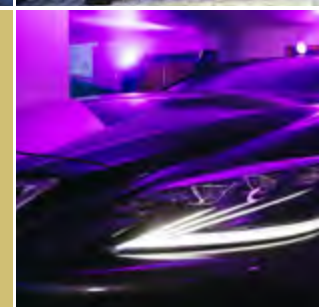
You will find us in apartments, houses and hotels. In offices, banks and production and industrial buildings. In giant agricultural areas and in cities with millions and millions of people. They make sense everywhere. Because they combine efficiency, comfort and ecology.

iNELS connects human needs with technologies.



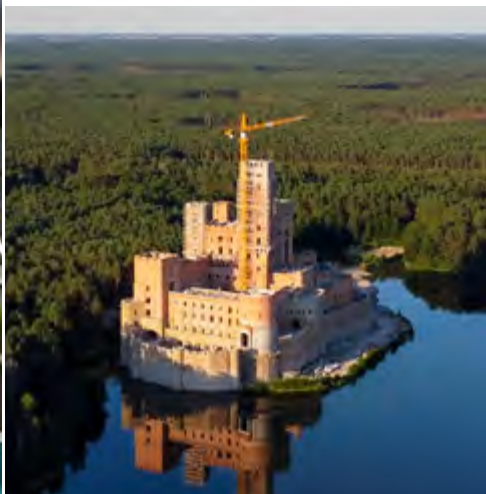
Sunseeker Yacht  
Mallorca, Spain

Lexus showroom  
Lviv, Ukraine





Stobnica castle  
Stobnica, Poland



National bank  
Timphu, Bhutan



Moni's Jewelry  
Budapest, Hungary



Landal Marina Lipno  
Lipno, Czech Republic



M-Gate clinic  
Pardubice, Czech Republic





### Headquarters

ELKO EP Holding SE, Czech Republic



### Europe

ELKO EP Balkan d.o.o  
ELKO EP Bulgaria OOD  
ELKO EP Germany GmbH  
ELKO EP Hungary Kft.  
ELKO EP POLAND Sp. z o.o.  
ELKO EP SLOVAKIA, s.r.o.  
ELKO EP UK Ltd.  
ELKO EP UKRAINE LLC



### Africa & Middle East

ELKO EP Egypt LLC  
ELKO EP Kuwait Ltd.  
ELKO EP MEA LLC  
ELKO EP Saudi Arabia Ltd.  
ELKO EP South Africa PTY Ltd.



### America

ELKO EP North America LLC