



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 200 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 15 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.

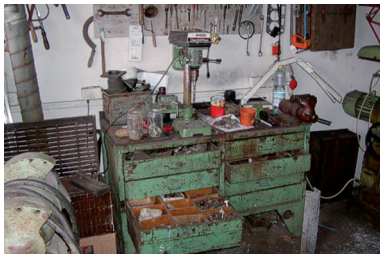
Jiří Konečný

Founder and CEO of the ELKO EP HOLDING

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

# HISTORY OF THE COMPANY

1993



## Roštění

garage  
20 m<sup>2</sup>

### Products:

switching power units  
for electrical heating

### Technology:

manual mounting and soldering

**Employees: 3**

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

**Employees: 15**

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: 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**

2018



### Holešov

extension of  
new warehouse

#### Products:

devices for IoT: iNELS Air  
Smart pole

#### Technology:

optical tester AOI (automatic optical inspection), marking laser for warehouse, Shoe cover machine

**Employees: 240**

2021



### Holešov

product innovation,  
strengthening production

#### Products:

Rounded corners for glass controllers, the smallest central unit in the world - miniCU

#### Technology:

extension of  
robot machines

**Employees: 330**

# FACTS & STATS



**>20 000**  
iNELS  
installations



**330**  
Employees  
over the world



**>20 000 000**  
Manufactured  
products

**10**

Branches

**6**

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.



## SUPPORT

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



## SELLERS

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



We are

**the world leader**

in production of 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.



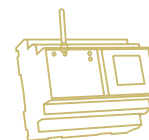
2002

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

Establishing a branch office ELKO EP Russia LLC. Expansion of the company with Research and Development and a new hall. Obtaining UL certificate for USA.



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.



2018

Establishing a branch office ELKO EP Baltic / Integration of iNELS BMS with Iridium-Niagara.



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 and Thermo valve RFATV-2.

# 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 SuperBrands in 2019, 2020 and 2021.



Made in  
Czech Republic



5 years warranty



Own development



Manufacturer  
support

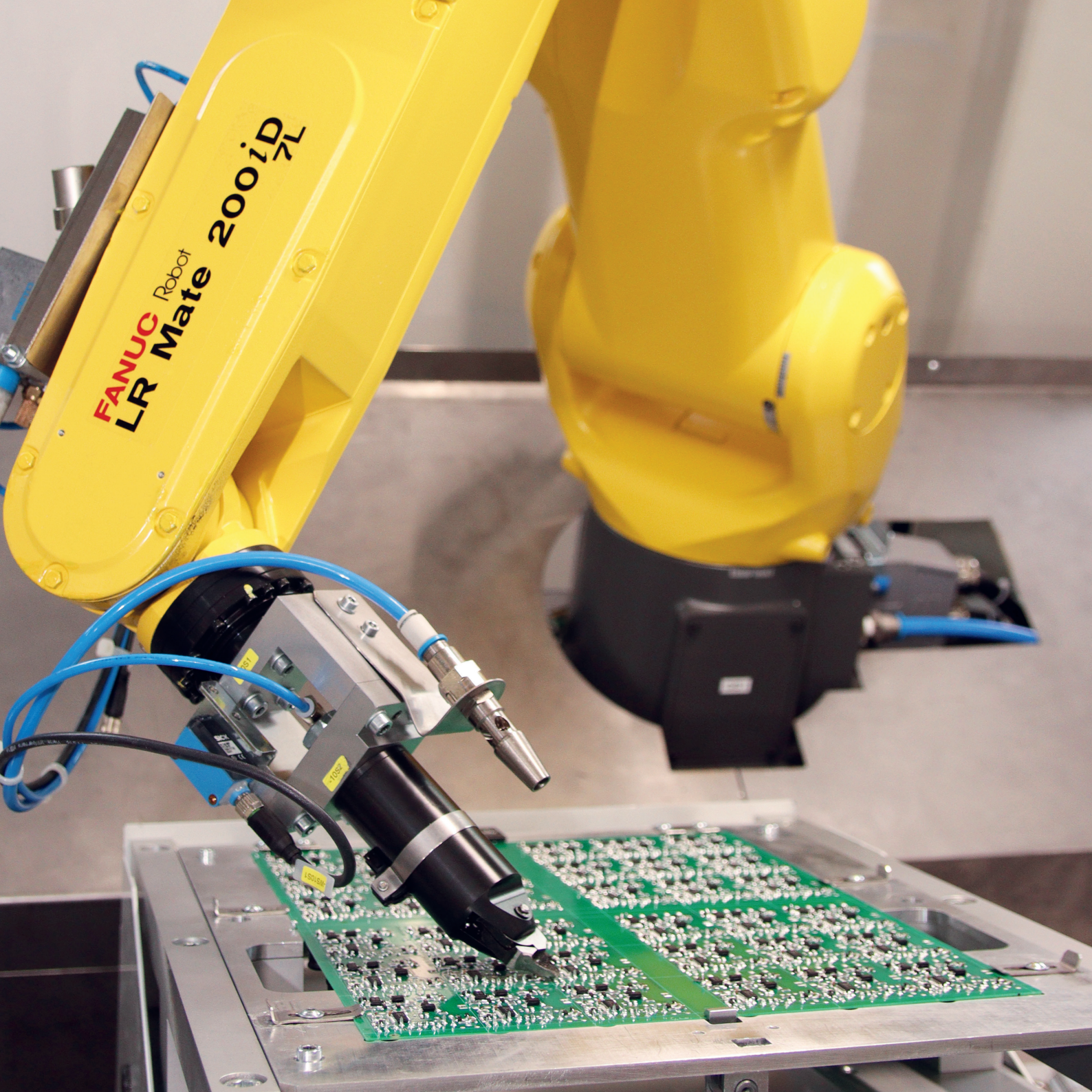


Accredited testing  
laboratory

Cutting  
robot



FANUC Robot  
LR Mate 200iD  
7L



# ATTAINED AWARDS & MEMBERSHIP



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



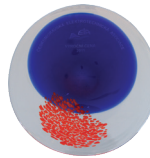
Czech Business  
Superbrands  
2019 and 2020



Visionary 2015  
award For Energy  
Managements



Golden Amper for  
"iNELS wireless"



ELA award for  
"RF Touch"



ELA award for  
"LARA"



Czech Business  
Superbrands  
2021



## Custom Electronic Design and Association

Custom Electronic Design and Association is an international trade organization for residential automation technology with more than 3,500 member companies worldwide. It was founded in the USA in 1989 and now CEDIA is the world's leading authority in the field.

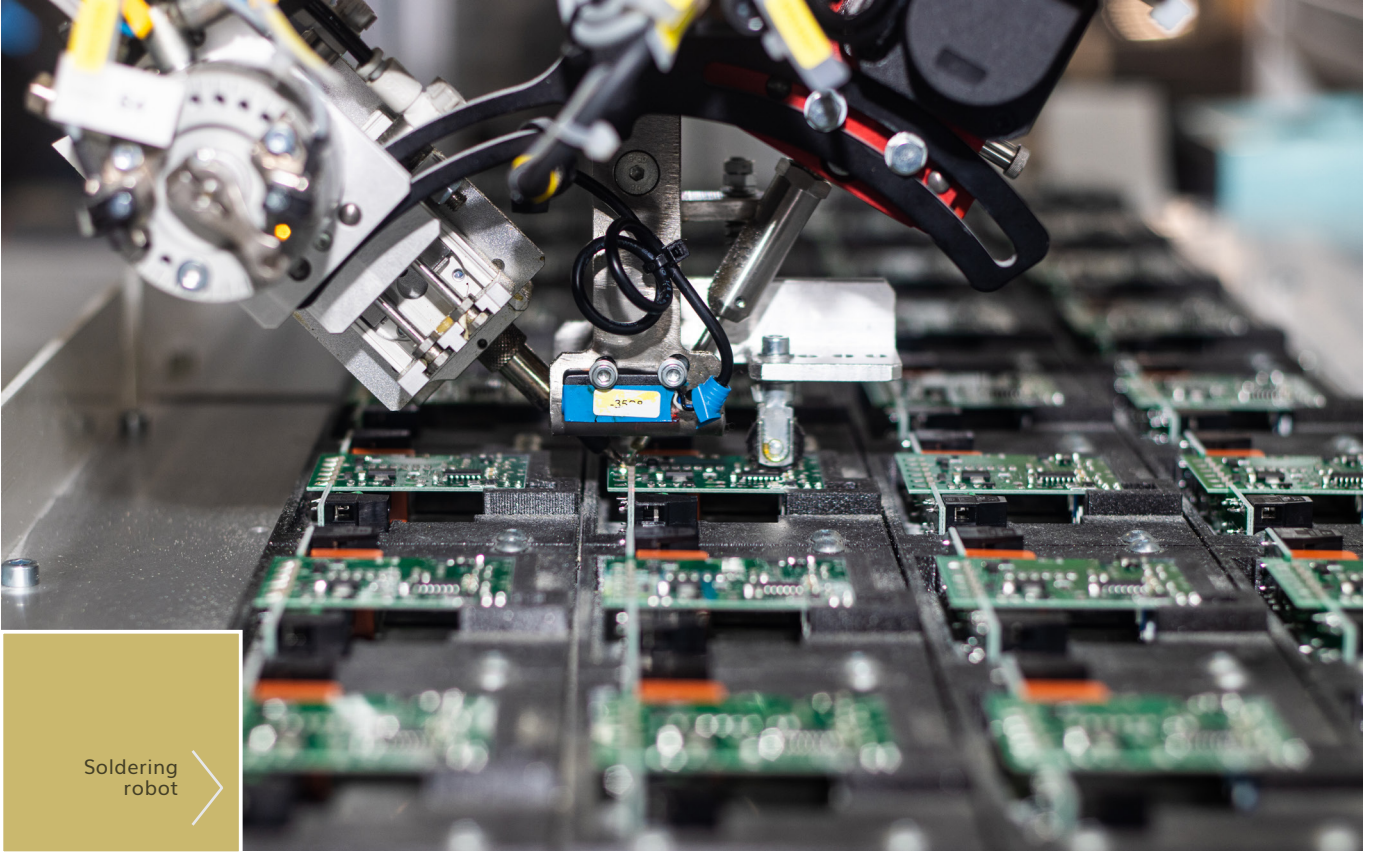
[www.cedia.co.uk](http://www.cedia.co.uk)



## The Electrical and Electronic Industry

The Electrical and Electronic Industry in the Czech Republic is a business and employer association that brings together legal and individual persons with similar product orientation or business interests. It was founded in 1992 and Jiří Konečný is a member of the Board of Directors.

[www.electroindustry.cz](http://www.electroindustry.cz)



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.





## ISO certification



ISO9001  
Production and  
development quality  
management system



ISO14001  
Environmental  
management  
system



ISO17025  
Testing and  
calibration  
laboratories



CE  
Declaration  
of conformity



FCC  
USA



underwriters  
laboratories  
USA

# EVOLUTION OF THE SWITCH

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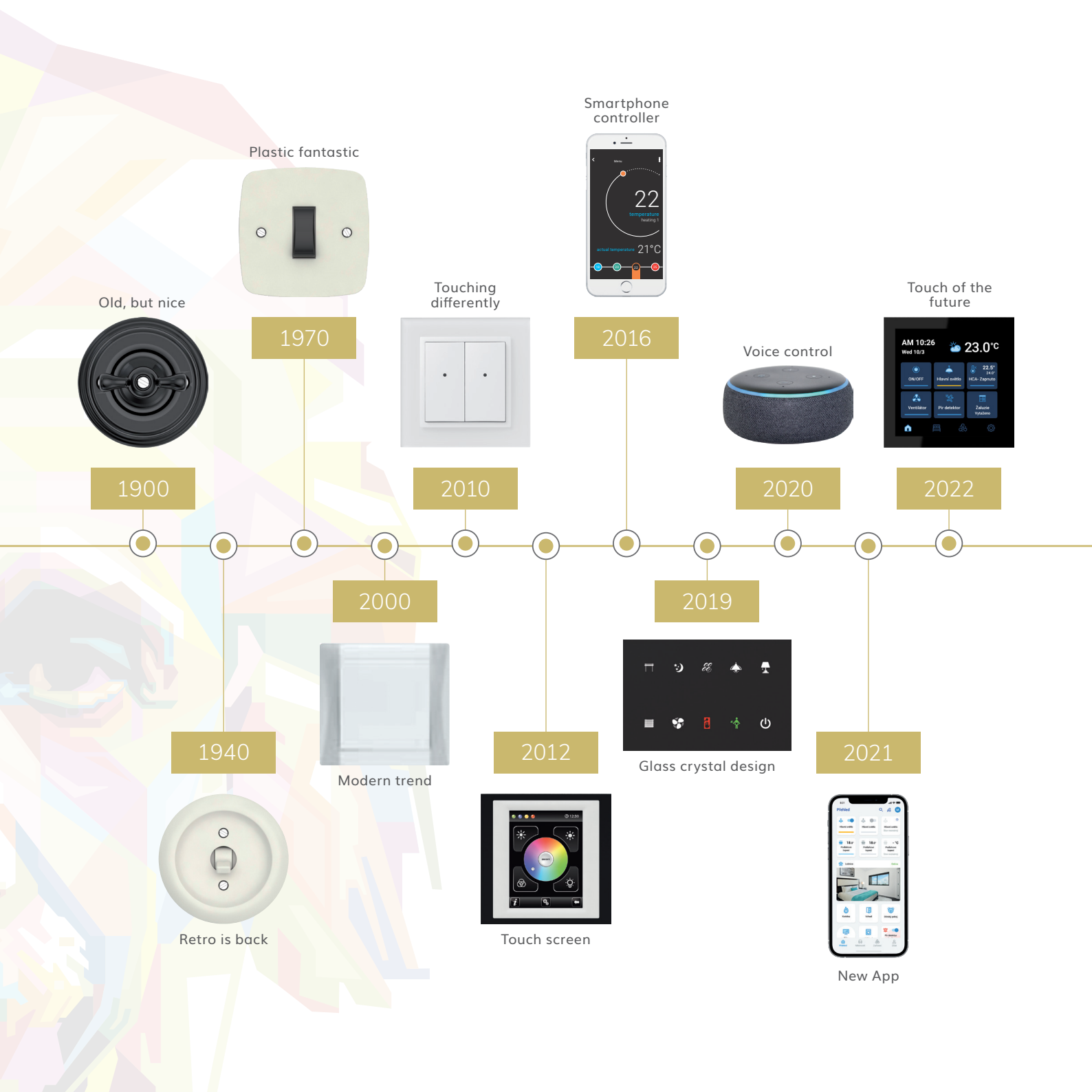
## Einstein would be surprised...

While its location has not changed much since the end of the 19th 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



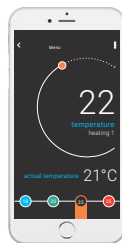
1970

Touching differently



2010

Smartphone controller



2016

Voice control



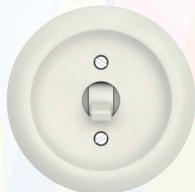
2020

Touch of the future



2022

1940



Retro is back

2000



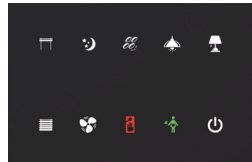
Modern trend

2012



Touch screen

2019



Glass crystal design

2021



New App

# PRODUCTS



Wireless electroinstallation  
(RF)



Wired electroinstallation  
(BUS)



Timers / Relays



Wireless Retrofit Hotel  
(HRESK)



Hospitality Hotel  
(GRMS)



Protection monitoring relays



Lighting control



Switches & sockets outlets



iNELS Air - IoT devices

# SOLUTIONS



Residential



Home automation



Connected home



Smart kits



Smart building



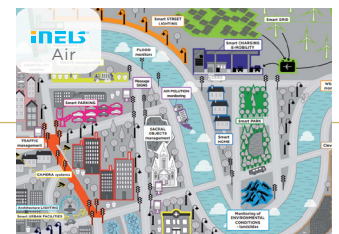
Future office



Guest Room Management  
Systems



Industry



Smart city

# INDUSTRY

In industry, RELAYS are an essential part of every electrical installation and machine. Our relays offers 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



Speed sensing



Reverse power relays



Power factor relays



Synchro-check relays



Thermostats



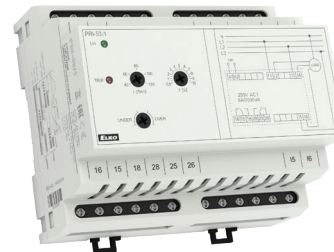
Multifunctional time relay



Digital time switch



Power factor monitoring relay



Current monitoring relay





# 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

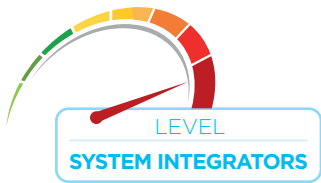
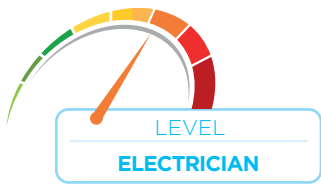
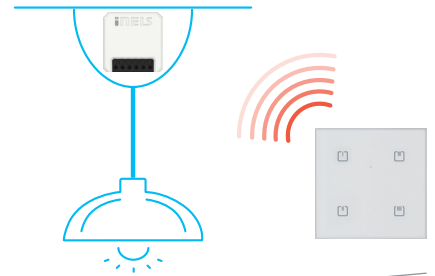
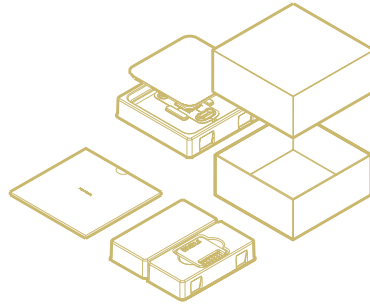
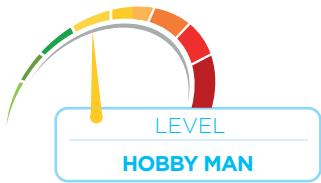
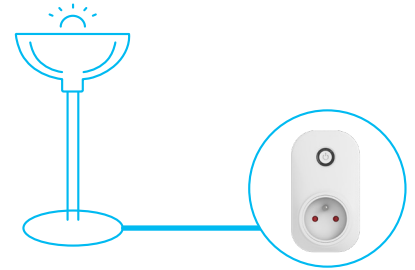
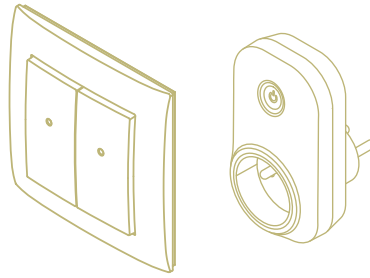
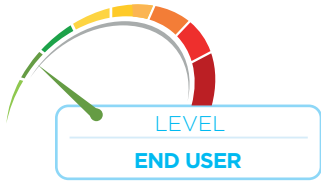
A simple solution to turn your house into a smart home, without any structural intervention.

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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

WIRELESS  
RF





# HOUSE & VILLA

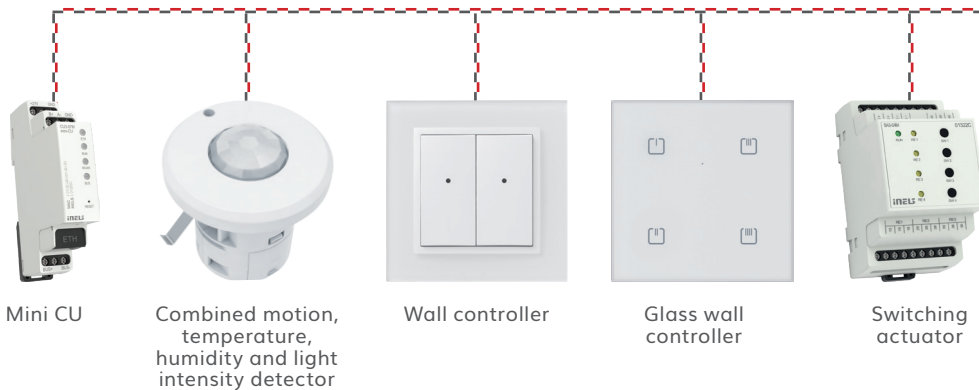
WIRED

BUS

## Wired (BUS) 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.





8:31

### Dashboard

Main light

Heating 22.5° 20.0°

Spot light

RGB light

Ventilation

All off



Motion Detection Corridor

Entrance

Children's room

- Dashboard
- Rooms
- Devices
- Account

# HOTEL RETROFITS

## 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.



Fancoil control



Motion detector



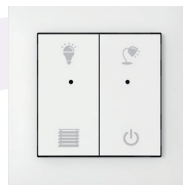
Dimmable LED



Switching / Dimming



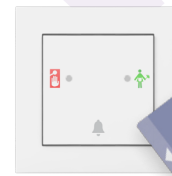
Window / door detector



Wireless controller



Temperature controller



Card reader with indication buttons





# LUXURIOUS SOLUTIONS FOR EVERY HOTEL

## 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.



WIRED  
GRMS





iNELS GRMS

ACCESS

+

AUDIO

+

VIDEO

+

HVAC

+

Electricity



# BUILDING MANAGEMENT SYSTEM

## When technologies work together

It is an integral part of every modern building. In addition to managing it, it also integrates various technologies in the building into one whole system. Contemporary buildings emphasize energy consumption, safety, a healthy working environment, quality and fast services, and maximise the use of IT technologies and automatic operation. This can only be guaranteed by thoroughly connecting the sensors and actuators of the various systems.

iNELS uses BMS Niagara and Flowbox, which allows the integration described above.



FLOWBOX



Home Assistant



CU3-IPMaster



Switching actuator,  
(22-channels)



Universal dimmer,  
(6-channels)



Combo I/O unit



Lights



IoT



Environmentally friendly  
(Green Building)



HVAC



Conference and meeting  
rooms booking



Energy  
management



Software, applications,  
platforms



Healthy  
park



RTLS  
(Real-Time  
Location System)



Security



Smart street  
lighting



Payment  
terminal



Waste  
management



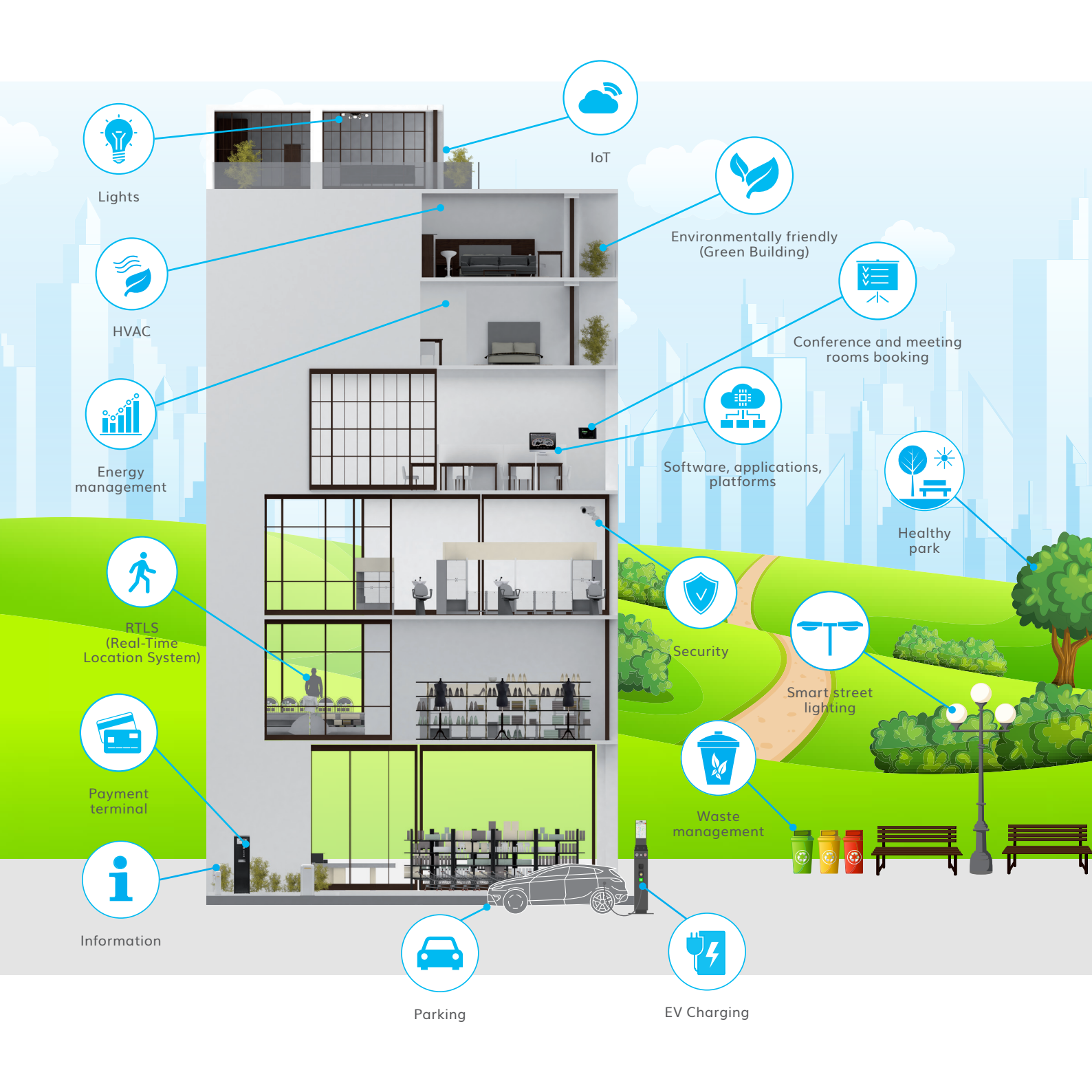
Information



Parking



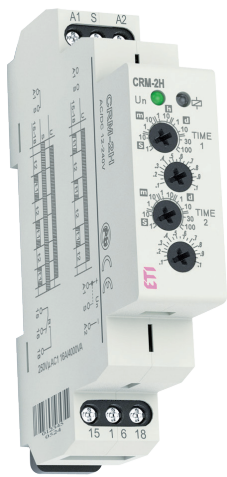
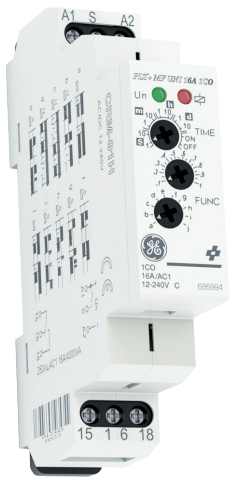
EV Charging



# WE DO 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. 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

Moni's Jewelry  
Budapest, Hungary





National bank  
Timphu, Bhutan



Lexus showroom  
Lviv, Ukraine



M-Gate clinnic  
Pardubice, Czech Republic

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

