



we make
world smarter



years
of innovations

EDITORIAL

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

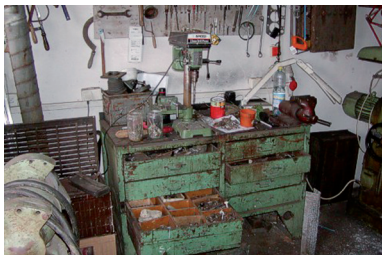
Founder and CEO of the ELKO EP HOLDING

A handwritten signature in blue ink, appearing to read 'Jiri Konecny'.

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

HISTORY OF THE COMPANY

1993



Roštění

garage
20 m²

Products:

switching power units
for electrical heating

Technology:

manual mounting and soldering

Employees: 3

1995



Roštění

a former elementary school
200 m²

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 m²

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 m²

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:

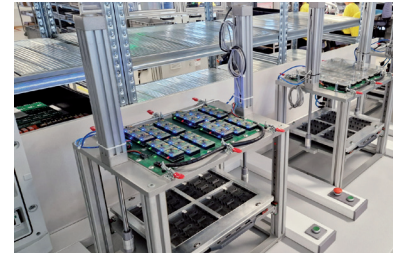
Rounded corners for glass controllers

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



>37 000
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.



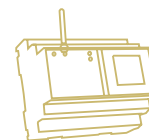
2002

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 / 2nd 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 LOGUS⁹⁰.



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.



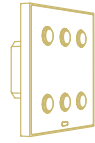
2022

Product innovation RF Touch 2 and Thermovalve RFATV-2.



2023

Glass Thermostats RFTC and first Matter products.



2024

Metal switch button and INSPINIA Technology acquisition.

STEPS TOWARDS AUTOMATION, QUALITY AND EFFICIENCY

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

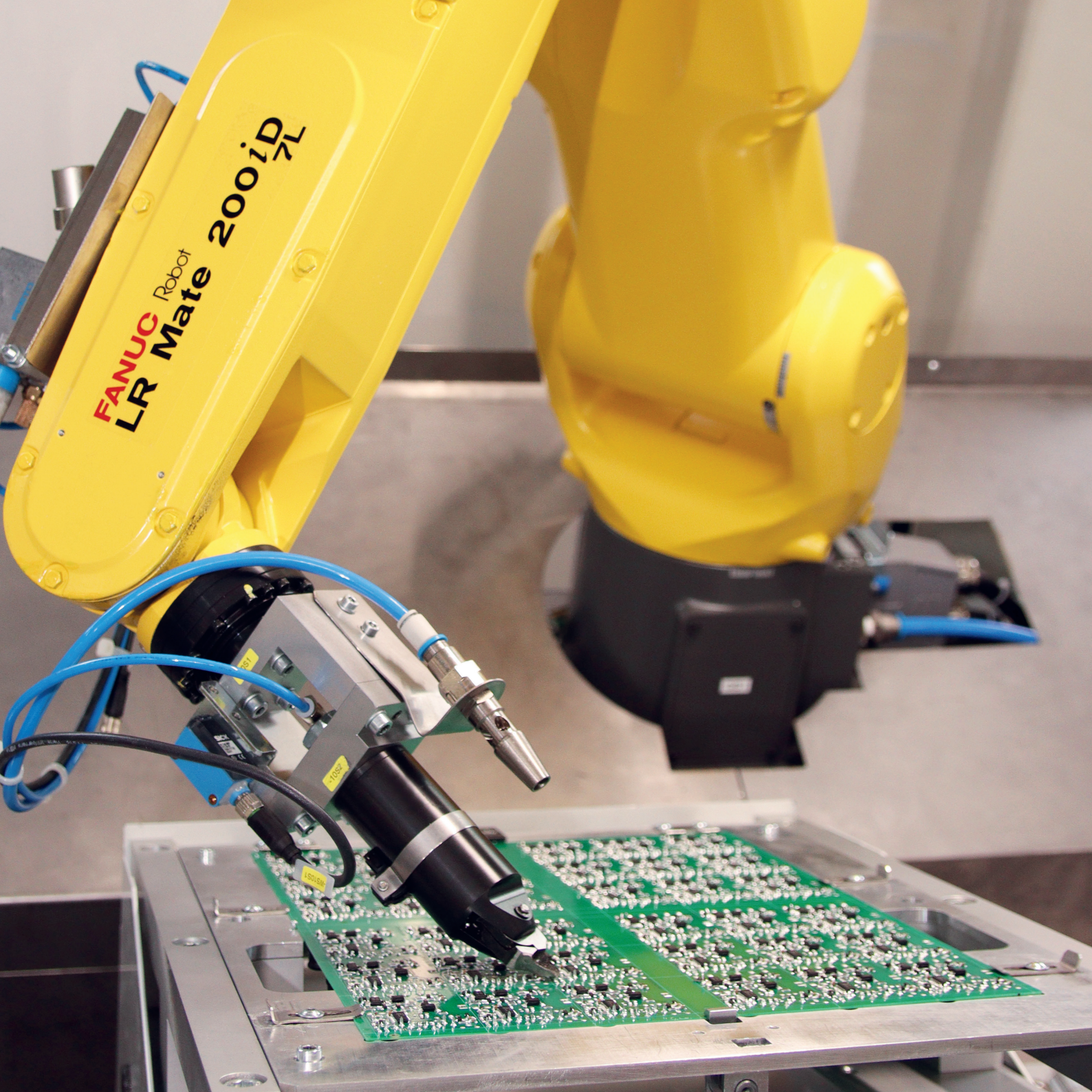


Ecological friendly

Cutting
robot



FANUC Robot
LR Mate 200iD
7L



ATTAINED AWARDS & MEMBERSHIP



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



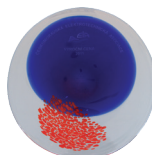
Czech Top 100
admired companies



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



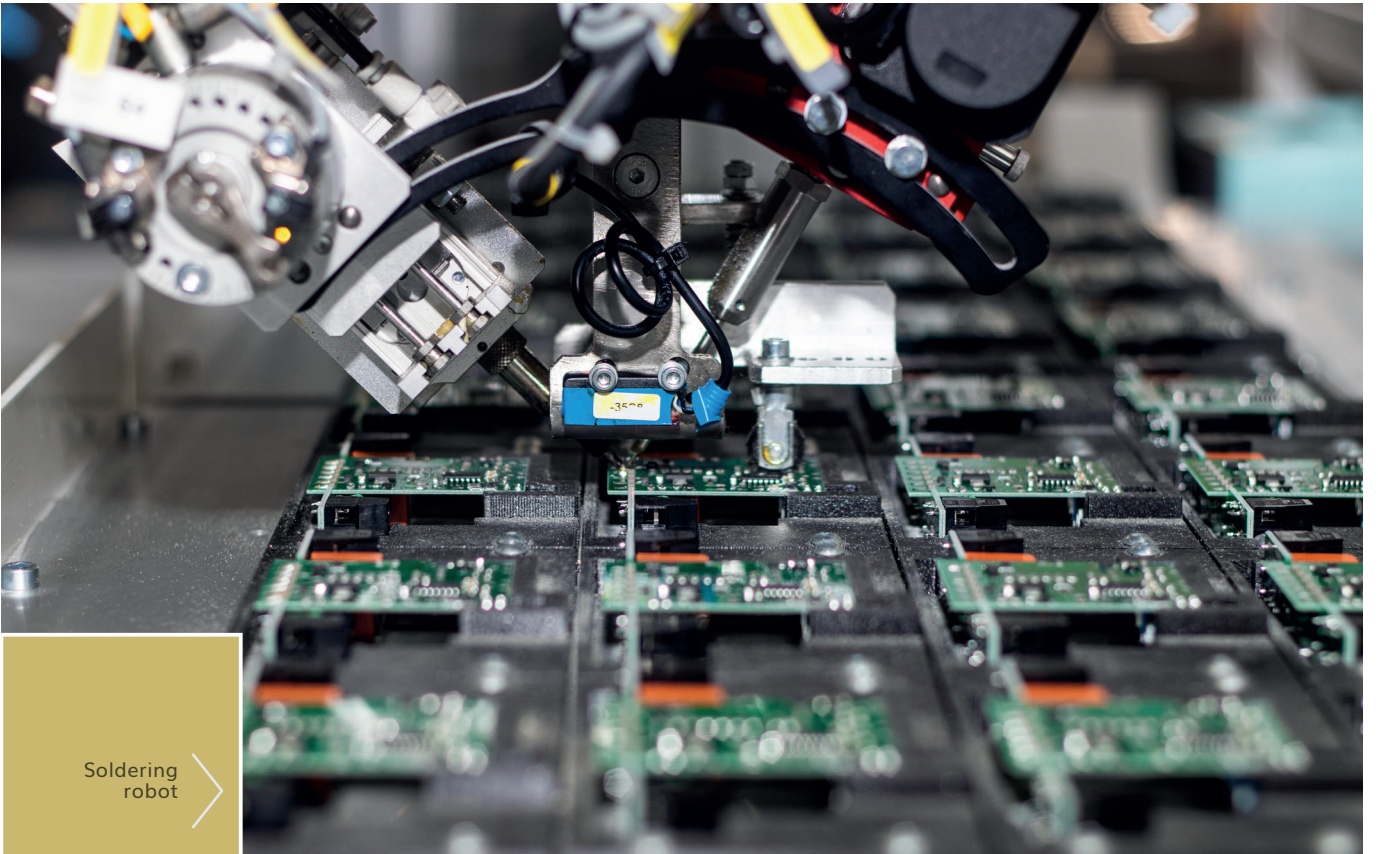
The Electrical and
Electronic Industry



Connectivity
standards alliance



Český výrobek



Soldering robot



Test lab

HIGH LEVEL OF TECHNOLOGY ALLOWS US...

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

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
accreditation

Products certification



CE
Declaration
of conformity



FCC
USA



underwriters
laboratories
USA

EVOLUTION OF THE SWITCH

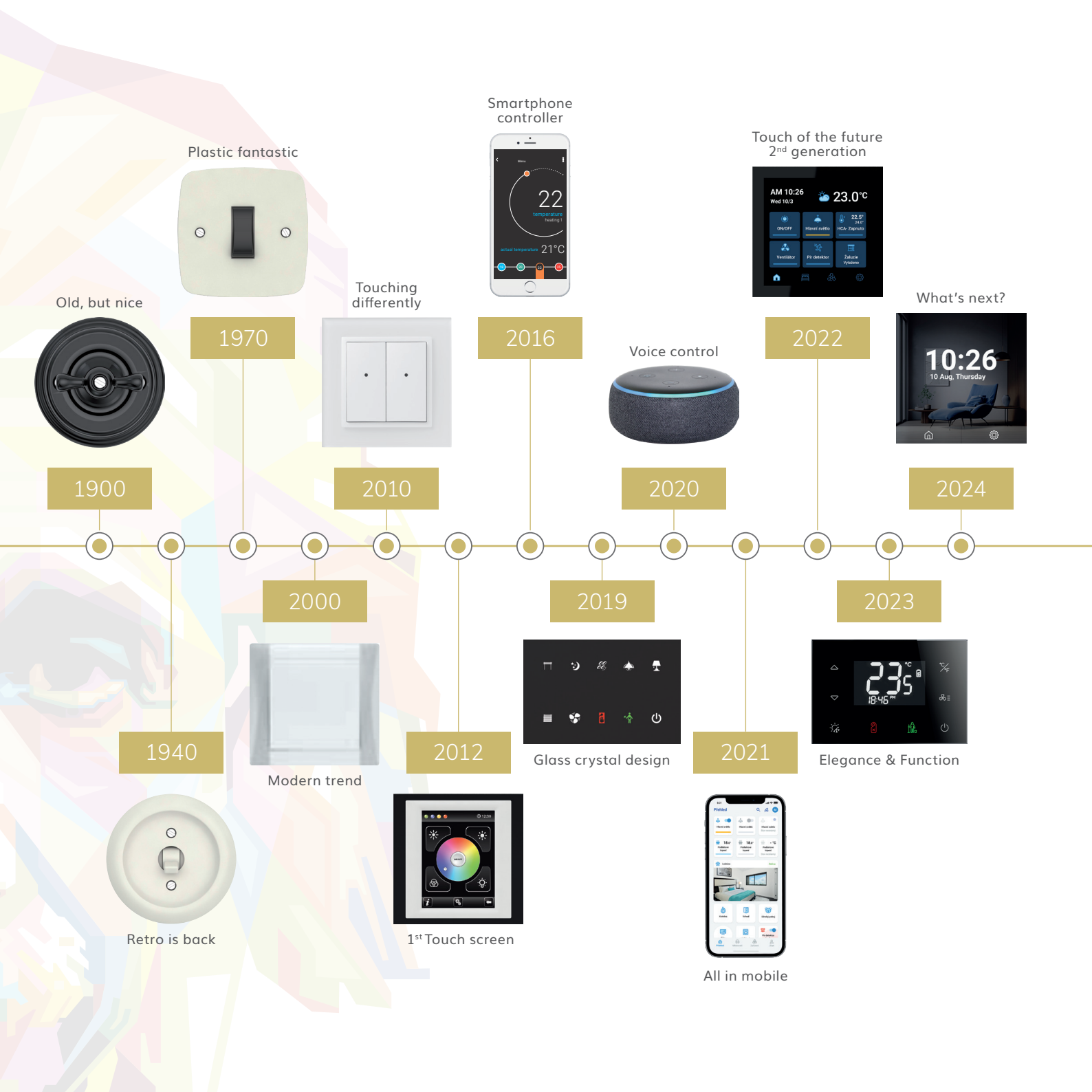
Einstein would be surprised...

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 dissapeared 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



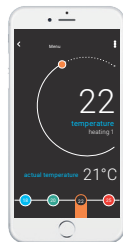
1970

Touching differently



2010

Smartphone controller



2016

Voice control



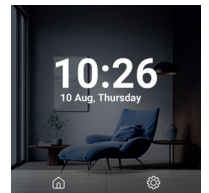
2020

Touch of the future
2nd generation



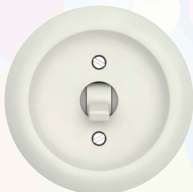
2022

What's next?



2024

1940



Retro is back

2000



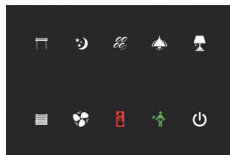
Modern trend

2012



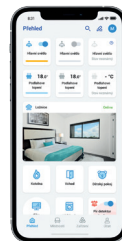
1st Touch screen

2019



Glass crystal design

2021



All in mobile

2023



Elegance & Function

PRODUCTS



Timers / Relays



Protection & monitoring relays



iNELS Wireless electroinstallation



iNELS Wireless Hotel Retrofit (HRESK)



iNELS Hospitality (GRMS)



iNELS Wired electroinstallation (BUS)



Switches & sockets outlets



Touch panels



iNELS Matter products

SOLUTIONS



Relay for home installations



Smart Apartment



Connected Home



Smart kits



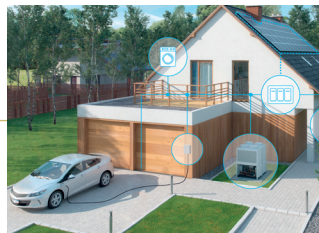
Smart Buildings



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



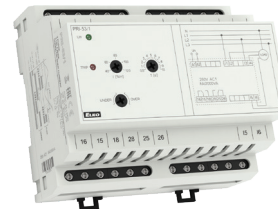
Digital thermostat



Power factor monitoring relay



Multifunction time relay plug-in



Current monitoring relay



ELKO START DELAY
DELAY
L1 L2 L3
L4 L5 L6
FUNC.L1 FUNC.L2 FUNC.L3
FUNC.L4 FUNC.L5 FUNC.L6

OUTPUT L1 15 18
OUTPUT L2 25 28
OUTPUT L3 35 38
OUTPUT L4 45 48
OUTPUT L5 55 58
OUTPUT L6 65 68

ELKO RD[kΩ] 100
ID [s] 10
16 15 18 28 25 26

16
15 16 18
15 18
15 18

A1+ A2-
L1 N A1 A2
L1 L2 L3
A1 A2 C D H

L1 L2 L3 L4 L5 L6 C A1 A2 + 1 2 3 4 5 6
LEVEL PROBES Un EXT. LED OUTPUT

A1 A2 T1 T1 T2 T2

ELKO HRH-5N
Un (V) 250
150 100 50
16 15 18 18

ELKO TER-3H
COOL HEAT
HUB TEST
TEMPERATURE
HYSTERESIS
Un (V) 250
150 100 50
16 15 18 18

ELKO HRH-8
Un (V) 250
150 100 50
16 15 18 18

ELKO HRH-9/UNI
Un
START DELAY PROBES DELAY
MAN.SENS 4-6 PROBE CAL.
FUNC.L1 FUNC.L2 FUNC.L3
L1 L2 L3
FUNC.L4 FUNC.L5 FUNC.L6
L4 L5 L6

ELKO TER-9
1 OFF
2 OFF
16-SEP-10
18:52
PRG MAN2 OK
RESET + MAN ESC

16 15 18 18

15 18
15 18

15 18 25 28 35 38

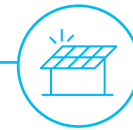
45 48 55 58 65 68

15 16 18 25 26 28

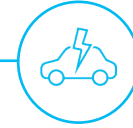
HOME INSTALLATION

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.

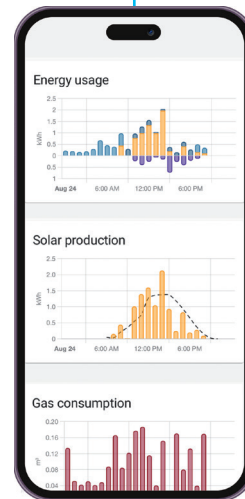
The current need today is the management of energy from renewable sources, such as solar panels or wind turbines. Relays decide on the efficient use of the energy obtained in this way, for normal operation, recharging of electric cars or storage in batteries. At the same time, they monitor their consumption,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



Solar systems



Electromobility





FROM A SINGLE COMPONENT TO A SMART BUILDING



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.

KITS

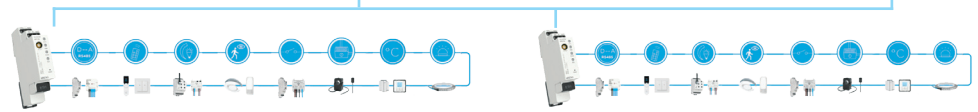
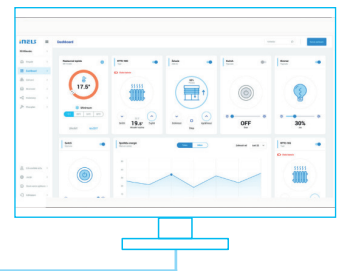
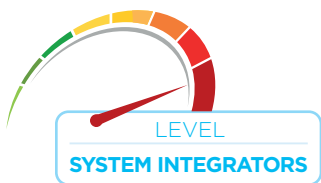
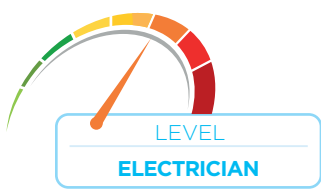
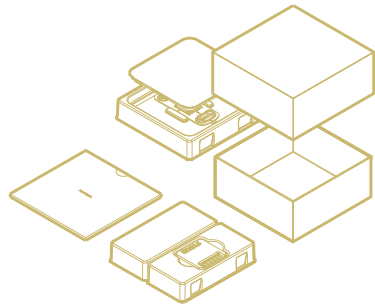
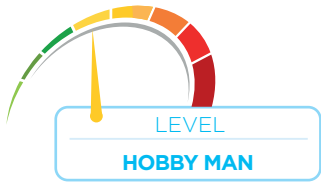
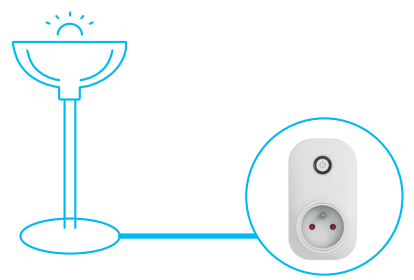
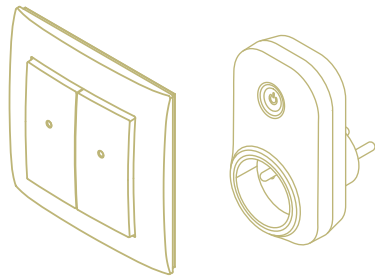
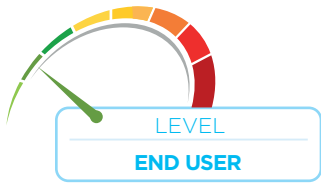
Pre-Set elements for everyday applications.

CONNECTED HOME

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

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



Thermostatic valve



Wall controller



Key fob



Glass touch thermostat



iNELS



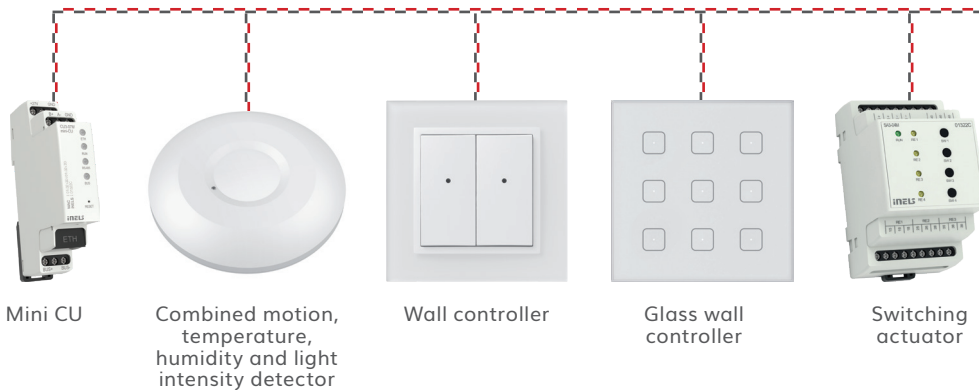
HOUSE & VILLA



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 VÍČ >



8:31

Dashboard

Main light

22.5° Heating 20.0°

Spot light

RGB light

Ventilation

All off



Motion Detection Corridor

Entrance

Children's room

- Dashboard
- Rooms
- Devices
- Account

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 >



23°



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

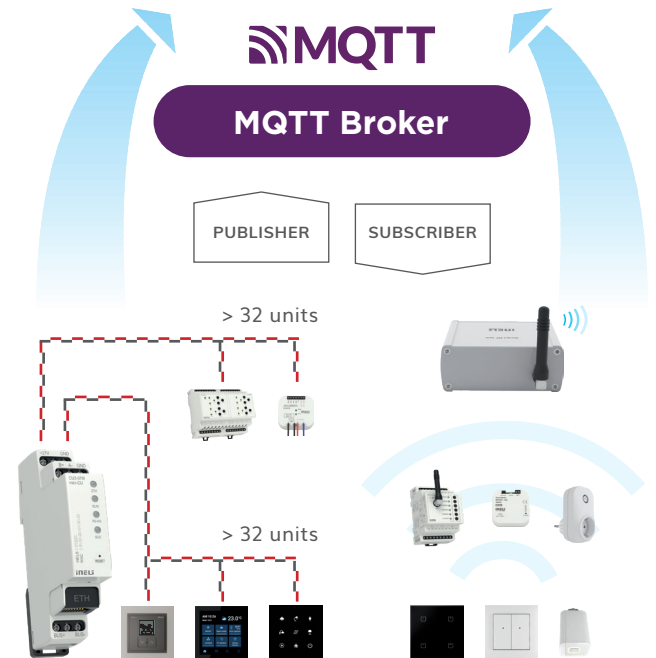
BMS is an integral part of every modern building. In addition to controlling it, it also integrates the various technologies in the building into one unit. Modern buildings emphasize energy consumption, safety, a healthy user environment, quality and fast services, maximum use of IT technologies and 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



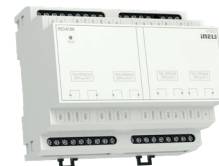
Central unit



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



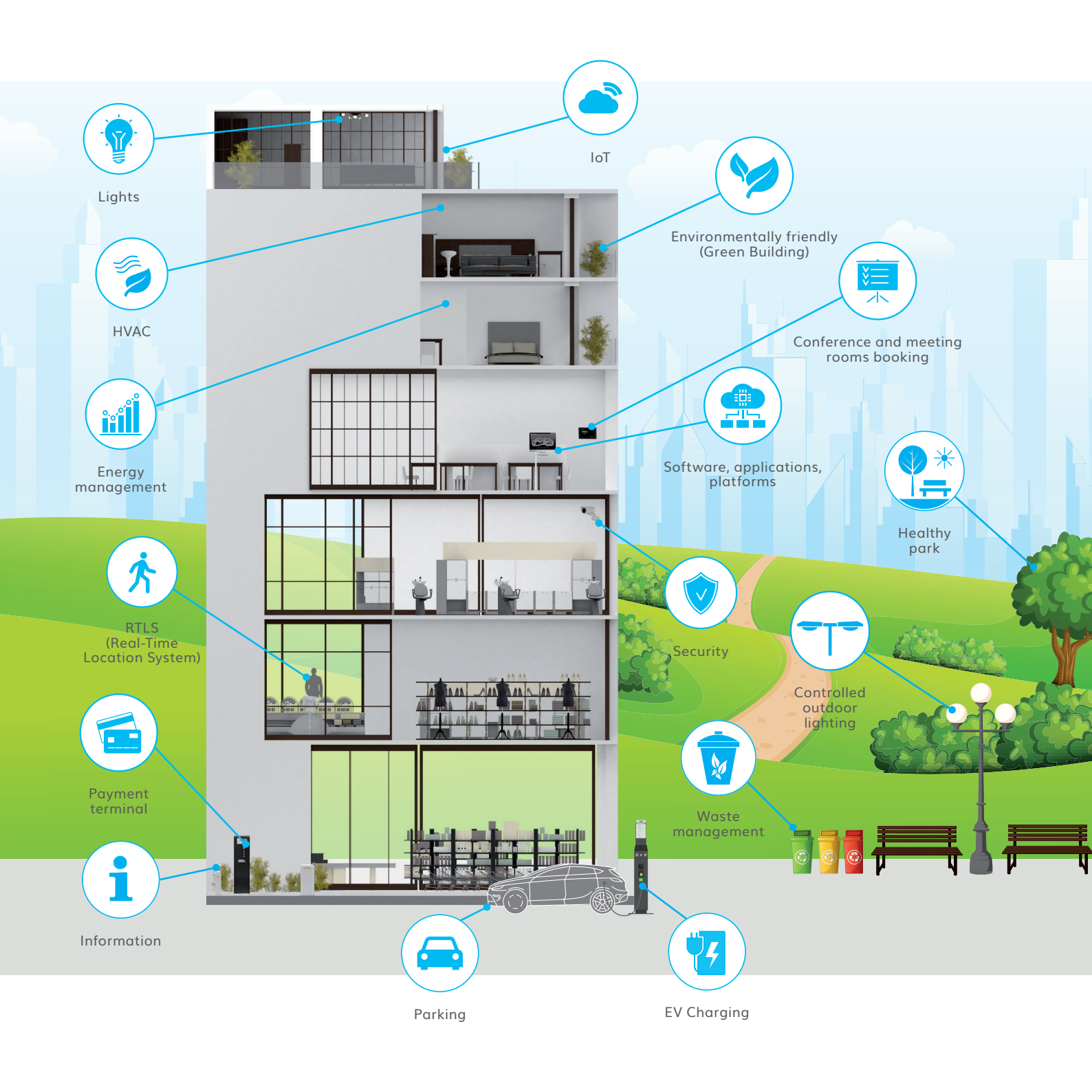
Information



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.



Voice control



Intercom



Solar panels



Household appliances



Alarm

EasyIO® iRidi

NETX
AUTOMATION niagara
framework®

Opera  FLOWBOX

GREE HITACHI
Inspire the Next

Haier 

MITSUBISHI
ELECTRIC
COOLING & HEATING

TOSHIBA

Panasonic

SAMSUNG

DAIKIN

LG



COOLAUTOMATION



IntesisBox®



PHILIPS
hue

tuya®

LUTRON



KNX

somfy. Control4



alhua TECHNOLOGY HIKVISION

2N
An Axis company

VingCard
Elsafe

HID®

Unity

SALTO
inspiredaccess

dormakaba

Opera

synXis
Driving Distribution

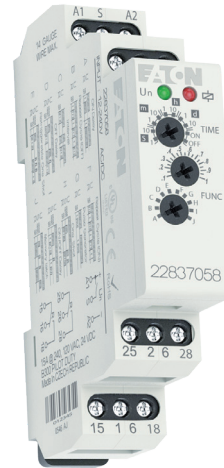
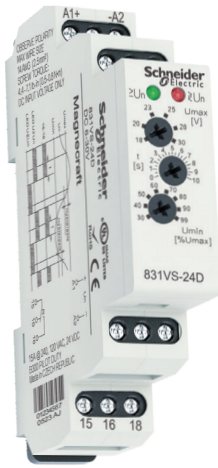
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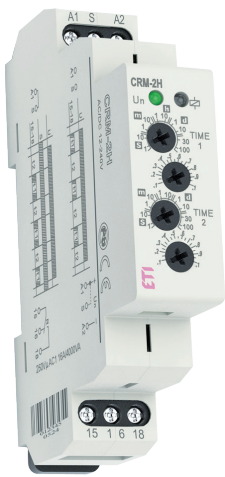
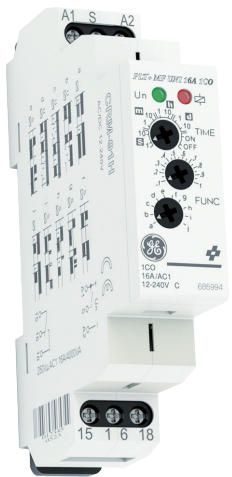
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REFERENCES

Private palace
Riyad, Saudi Arabia



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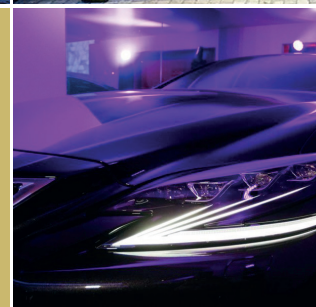
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