# **Company profile**

### Smart devices for residential and industrial automation





www.elkoep.com

# **ELKO EP Holding**

We are a traditional, innovative and purely Czech manufacturer of electronic devices and we have been your partner in the field of electro-installations for 25 years. Thanks to the many years of experience and our market activities we are able to say that we have become specialists in the field of modular electronic devices - relays, of which we produce more than 200 types. Our own production, modern tools and devices, research and development center. All these allow us to head towards development of the most sought-after technology: the intelligent electro-installation iNELS system.



www.elkoep.com



# Everything under one roof



modern antistatic spaces, more than 30 engineers PRODUCERS 2x fully automated SMD A HELOPERS develop new products and extend production lines, 2 shift the functionality of existing operations products F  $\square$ WE ARE S-HALLS S-HALLS THO HANS Sales personal access to more than 70 sales representatives Support in ELKO EP Holding 24 hours / 7 days / 360 days provides impeccable services

# **Product groups**



Manufacturing

and superior products at

an affordable price.

Time relays Latching relays Auxiliary relays Staircase switches Dimmers Thermostats Level switches Power supplies Monitoring voltage relays Monitoring current relays

Lighting

LED Bulbs LED Tube LED Panel LED Downlight LED Strips DALI control DMX control



Design lines / frame Sockets Switches and over-switches Pushbuttons Thermostats Motion detectors



Transmitters Switching actuators Shutter actuators **Dimming actuators** Temperature actuators Analog actuators Smart Kits Apps



Switching actuators Shutter actuators **Dimming actuators** Input units Converters Energy management Wall Controllers Apps



A/V distribution Multimedia LARA Infra Red control Intercom/videophone Weather stations 3<sup>rd</sup> parties devices & systems integration

www.elkoep.com

we not only provide technical

support but also logistics.

### Energy Management

Solutions for existing buildings Solutions for new buildings Energy gateway Pulse converter Sensors Cloud Apps



Sensors and actuators on the IoT platform



Smart Building Smart Traffic Smart Parking Smart Street Lights Smart Cameras



# Smart Home & Building solutions







Apartment Wireless installation in an existing flat / apartment.



## Villa / House

When technologies understand each other!



Hotel First controller that guests can understand well.



### Smart City

iNELS as a way to effectively manage the city.



elkoep.inels.com

New price

configurator

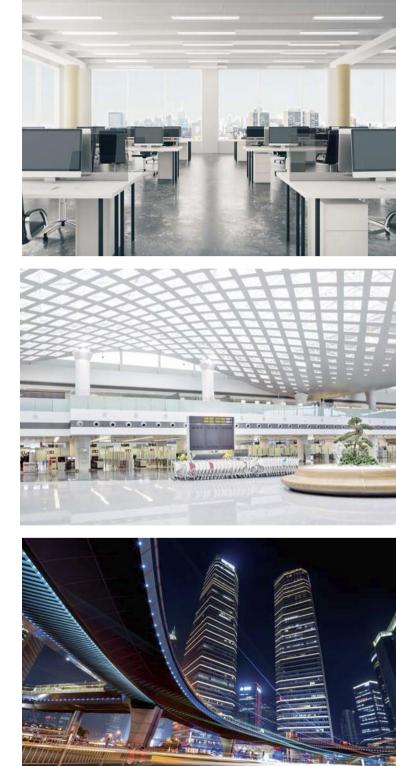
Future office

Healthy, economical and efficient workspaces.



Commercial Eficient use of

technologies and energy.

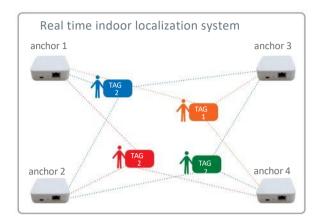




# **Future Office**

The system controlling entry to the building and to the individual zones is a key factor that affects the safety of people, property and information. Automated control technologies, such as lighting, HVAC and shading again provide the optimum working environment while efficiently using energy.

### inels.com/future-office



# Smart City & iNELS Air

Functional, efficient, safe, connected smart cities. Headquarters, whose infrastructure helps to improve services that create places which allows better living and working environments. Solutions to save and help people spend ten minutes less in traffic jams or in finding parking places.

### inels.com/smart-city









CHYTRÉ KAMERY



CHYTRÉ SEMAFORY



CHYTRÉ VEŘEJNÉ OSVĚTLENÍ



CHYTRÉ BUDOVY



CHYTRÁ PARKOVIŠTĚ

# High-level technology...

- more than 90 % share formed by SMD components 2x fully •
- automated Samsung SMD production lines capacity: 45.000
- components / hour •

Screen printing

Flexible, fully

automatic in-line

screen printing

for printing adhe-

sives and paste

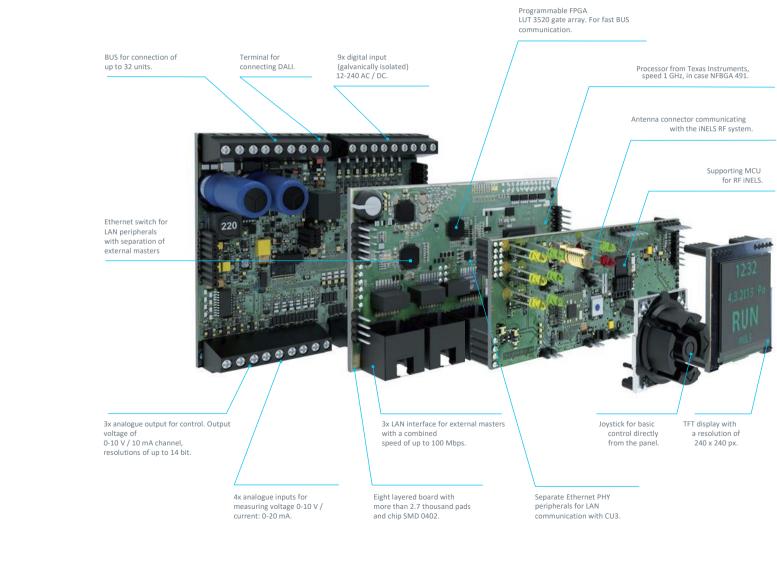
on DPS with 2D

inspection.

the minimum chip size is 0105 (0.4 x 0.2 mm), the maximum size is gfp 55 x 55 mm •

# ...allows us to make high-tech products

This is how the new iNELS BUS system central unit looks!





Inspection

Loader A device that loads printed circuit boards from a magazine on a line conveyor belt.

### 2x pick & place machines

### It mounts chips from 0201 (0.6 x 0.3mm), through CSP up to BGA with dimensions of 55 x 55mm with terminal spacing of 0.3 mm. The machine has six heads with it own video camera.

### P Reflow soldering oven

station conveyor Used to perform Based on type of optical inspection chosen technoof previous logy, it activates an adhesive or processes. directly reflows paste in the soldered joint. In fourteen zones, it is possible to set the ideal soldering process

curve.

Unloader A machine that loads PCBs from

the conveyor belt into the magazine.







# Apartment

### O NIKOLA TESLA

Prague, Czech Republic

- 8 apartments
- LARA Intercom
- lighting control

# APARTMENT Prostějov, Czech Republic

- wireless control
- lights
- home appliance integration

# Villa

### O VILLA

Dubaj, UAE

- garden irrigation
- home appliance integration
- intercom and LARA

### O VILLA

### Brno, Czech Republic

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

### O APARTMENT

### Prague, Czech Republic

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

### ○ A HOUSE ON ITS ROOF

### Liptovsky Mikulas, Slovakia

- control the switching and dimming of lights control
- machines (helicopter, motorcycle, ...) sound and
- lighting effects triggered by motion detectors
- machines controlled via tablet













### O KEMPINSKI

### Almaty, Kazakhstan

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

### O MERIT PREMIUM

#### Kyrenia, Cyprus

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

### O 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

# Commercial

### O JAMIE'S ITALIAN CASTLE

Budapest, Hungary

- iNELS BUS System is contolling lighting and terrace-cooling/heating in the restaurant additional switched lighting circuits
- are controlled by 5 piece of SA3-06M actuator

### MAGYAR STATE OPERA

- O 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.

### ALANCHA BESIKTAS

O Istanbul, Turkey

complex lighting control audio

- system
- HVAC and heating pump
- •

MIDDLE EAST ELECTRICITY Dubai (UAE)







# **ELKO EP Holding**

