

iNELS

Wireless electro-installation



elkoop.com/wireless





ELKO EP

ELKO EP have been your partner in the field for 30 years, developing and manufacturing the highest quality electronic devices for electroinstallation as well as smart system for residential and building automation.

ELKO EP employs more than 350 people across 15 foreign branches and exports its products to more than seventy countries. Company of the Year, Visionary of the Year, Superbrands and Global Exporter of the Year are just some of the awards we have received throughout the years as we consistently strive to move forward in the field of innovation and development.

Millions of relays, thousands of smart homes, hundreds of buildings and many satisfied customers - This is ELKO EP; a traditional company based in the center of Europe, where own development, production, logistics, and service are at the forefront of our focus.

Facts & stats



30 %

Czech

40 %

export

30 %

branches



WORLDWIDE

11 branches
3 franchises
70 export countries



350

employees
in holding



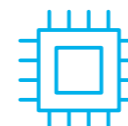
30 000 +

iNELS
installations



30 000 000 +

manufactured
products



R&D

continuously
innovative



MANUFACTURER

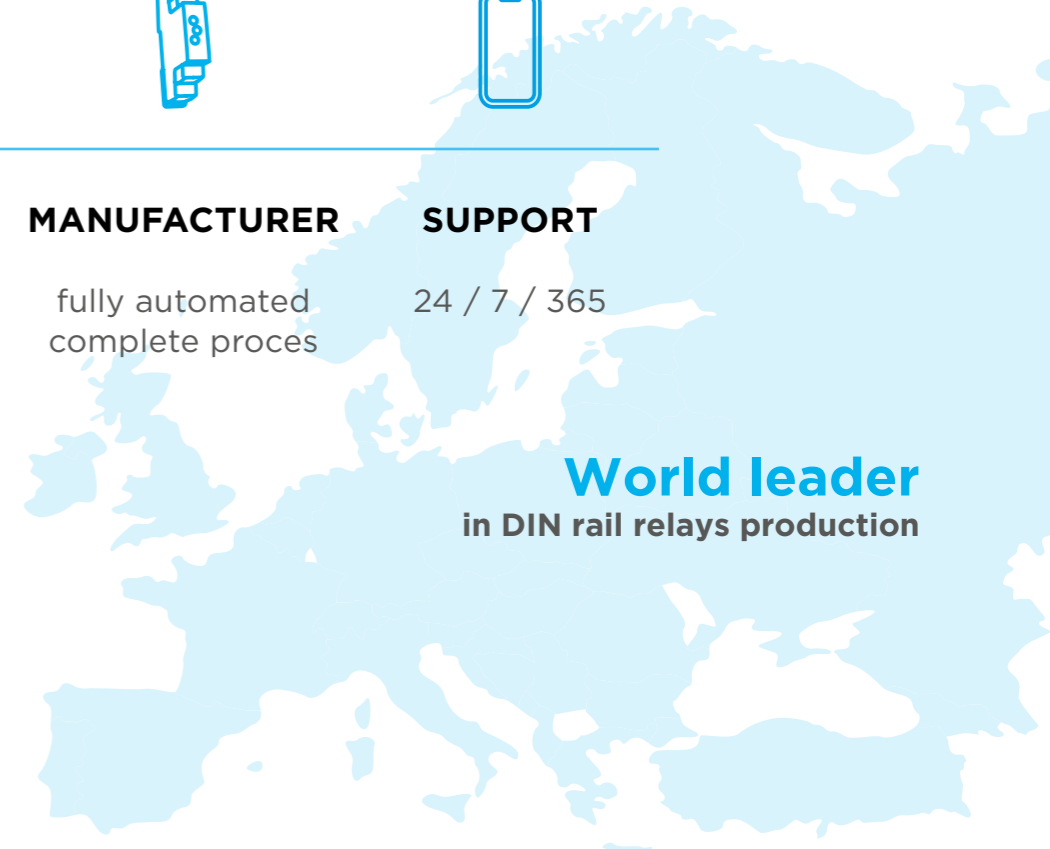
fully automated
complete proces



SUPPORT

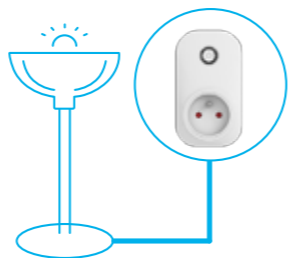
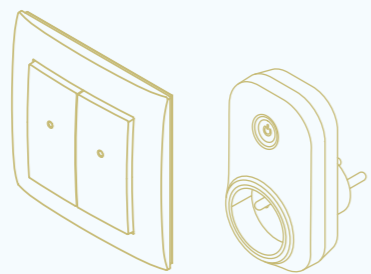
24 / 7 / 365

World leader
in DIN rail relays production



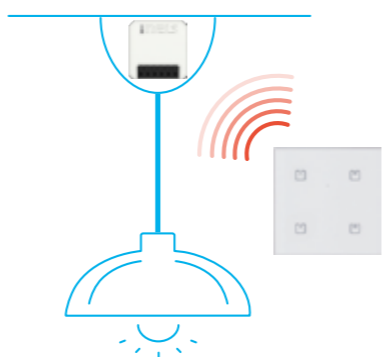
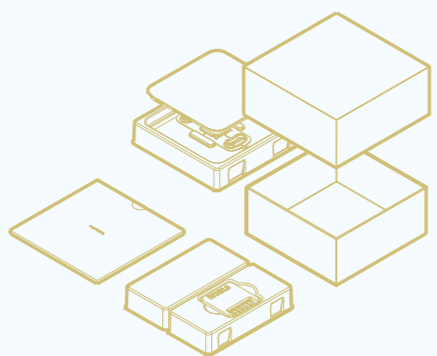
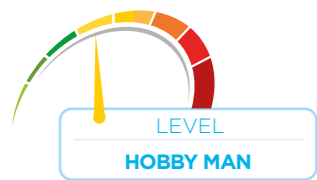
UNITS

Individual elements of the iNELS system for personalised installation.



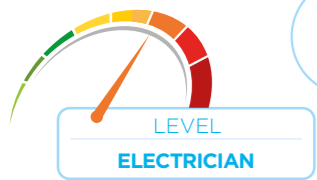
KITS

Pre-Set elements for everyday applications.



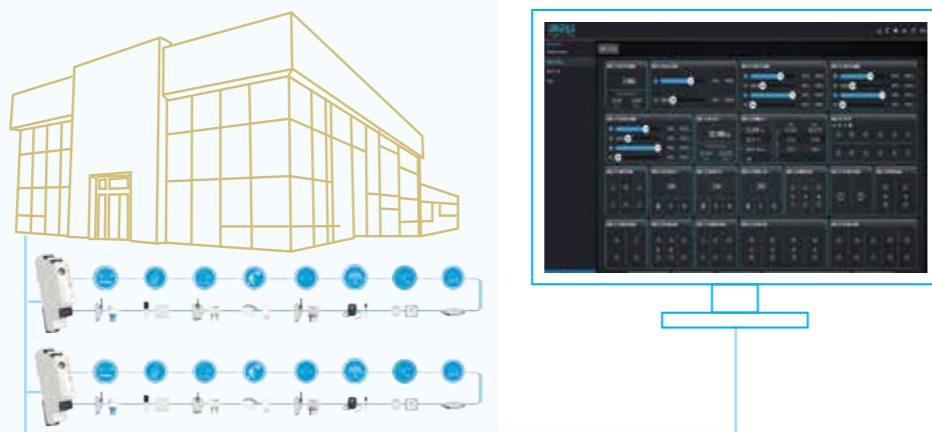
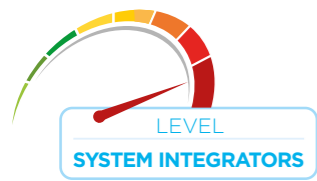
CONNECTED HOME

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.



On wall button controllers

RFWB-20 / RFWB-40

- 2 or 4 buttons
- simple installation – can be attached or fixed anywhere
- in LOGUS⁹⁰ design frames (natural materials and colour combinations)



Glass touch controller

RFGB-20 / RFGB-40

- wall controller in elegant glass design
- 2 or 4 buttons
- in black or white glass sharp or rounded edges



Wireless touch unit

RF Touch-2/BE, RF Touch-2/BR

- wireless touch unit for flushed mount
- it will become a central, wireless intuitively controlled home
- coloured 4" TFT display
- eLAN-RF gateway included



RF Key

RF Key-40B/W

- 4 or 6 buttons controller
- pocket controller for every day
- in colour white or black



Matter compatibility



| | |
|--|----|
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System units

| | |
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MATTER

| | |
|--|----|
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HRESK

| | |
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Controllers



RFWB-20/G – white
RFWB-20/GB – black
On-wall button controller
– 2 buttons



RFWB-40/G – white
RFWB-40/GB – black
On-wall button controller
– 4 buttons



RFOWB-20
Outdoor controller
– 2 buttons



RF KEY-40/W – white
RF KEY-40/B – black
Key fob – 4 buttons



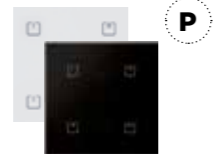
RF KEY-60/W – white
RF KEY-60/B – black
Key fob – 6 buttons



RF Pilot/W – white
RF Pilot/A – anthracite
Remote Wireless controller
with display



RFGB-20/W – white
RFGB-20/B – black
Glass touch controller
SHARP – 2 buttons



RFGB-40/W – white
RFGB-40/B – black
Glass touch controller
SHARP – 4 buttons



RFGB-220/W – white
RFGB-220/B – black
Glass touch controller,
ROUND – 2 buttons



RFGB-240/W – white
RFGB-240/B – black
Glass touch controller,
ROUND – 4 buttons



RFSW-42/B – black glass, SHARP
RFSW-242/W – white glass, ROUND
Glass touch controller
with output relays



RFDW-71/B – black glass, SHARP
RFDW-271/W – white glass, ROUND
Glass touch controller
with dimmer

Legend:

N

NEW

P

PAIRING
BUTTONIP
65INCREASED
PROTECTION

MATTER



MQTT

Switch units



RFS-61B
Switch unit, 1 channel
– 1x 16 A, multifunction



RFSAI-61BPF-SL
Switch unit with inputs for
external buttons – 1x 8 A,
multifunction, galvanically
separated



RFSAI-11B-SL
Switch unit with inputs for
external buttons – 1x 8 A,
singlefunction



RFSAI-61B-SL
Switch unit with inputs for
external buttons – 1x 8A,
multifunction



RFSAI-62B-SL
Switch unit with inputs for
external buttons 2-channels,
2x 8 A (total), multifunction



RFJA-32B-SL
Switch unit for shutters,
2x 8 A



RFS-66MI
Switch unit, 6 channels with
integrated antenna
– multifunction, 6x 8 A



RFS-61MI
Switch unit, 1 channel with
integrated antenna
– multifunction, 1x 16 A



RFS-66M
Switch units, 6 channels
– multifunction, 6x 8 A



RFS-61M
Switch unit, 1 channel – multi-
function, 1x 16 A



RFUS-61
Switch unit with increased
protection, 1x 12 A,
multifunction



RFSC-61N
Switching socket-plug,
– 1x 16 A, multifunction

Dimmers



RFDAC-71B-SL
Analog controller,
0(1)-10 V



RFDALI-32B-SL
RFDALI-04B-SL
DALI controller,
for 4/32 DALI addresses



RFDEL-71B-SL
Universal dimmer
1-channel – 1x 300 VA
– R, L, C, LED, ESL



RFDEL-71M
Universal dimmer,
1-channel – 1x 600 VA
– R, L, C, LED, ESL



RFDEL-76M
Universal dimmer,
6-channels – 6 x 150 VA



RFDA-73M/RGBW
Dimmer for LED (RGB) strips,
3-channels



RFSC-71N
Dimming socket-plug

Temperature control



RFTC-3
Glass touch thermostat for fancoils



RFTC-4
Glass touch wireless thermostat



RFTC-10/G
System temperature controller



RFTC-50/G
Autonomous temperature controller



RFSTI-11B-SL
Switch unit with external temperature sensor



TC TZ
Temperature sensors



RFATV-2
Wireless thermostatic valve



RFTI-20
Temperature and humidity sensor

Converters



RFIM-40B/BP-SL
4 input contacts converter battery powered



RFIM-40B/230-SL
4 input contacts converter AC 230 power supply



RFSG-1M
Input contact converter -1x permanent contact



RFTM-1
Puls converter

Detectors



RFSF-100
Flood detector



RFSOU-1
Twilight switch



RFWD-100
Window/Door detector



RFMD-100
Motion detector



RFSLT-S3
Wireless hydrostatic level sensor



RFMD-200
Motion detector

System units



eLAN-RF-103
Smart RF gateway with LAN



RFRP-20N
Repeater to extend the range



RF Touch-2/BE
RF Touch-2/BR
Wireless touch unit - flush mounted

Matter



RFWB-40G/MT
On-wall button controller - 4 buttons



RFGB-40B/MT - black glass
RFSW-40W/MT - white glass
Glass touch controller - 4 buttons, SHARP / MATTER



RFSAI-62B-SL/MT
Switch unit with inputs for external buttons MATTER, 2x 8 A (total)



RFDEL-71B-SL/MT
Universal dimmer, 1-channel - 1x 300 VA, MATTER



RFWD-100/MT
Window/Door detector MATTER



RFMD-200/MT
Motion detector MATTER

Hotel Retrofit (HRESK)



RFGS-30/SB - black glass
RFGS-30/SW - white glass
Infront of door hotel room unit



RFSW-62/SB - black glass
RFSW-62/SW - white glass
Wireless touch glass remote control with symbols



RFSA-266M
Switch unit for fancoil control



RFSAI-161B
Lighting control unit with pair detectors and external button input



RFSTI-111B
Overheating/overcooling switch unit with advanced functions

Accessories



RFAF/USB
Service Key



AN-I
Internal antenna
Gain: 2.1 dBi



AN-E
External antenna
Gain: 5 dBi



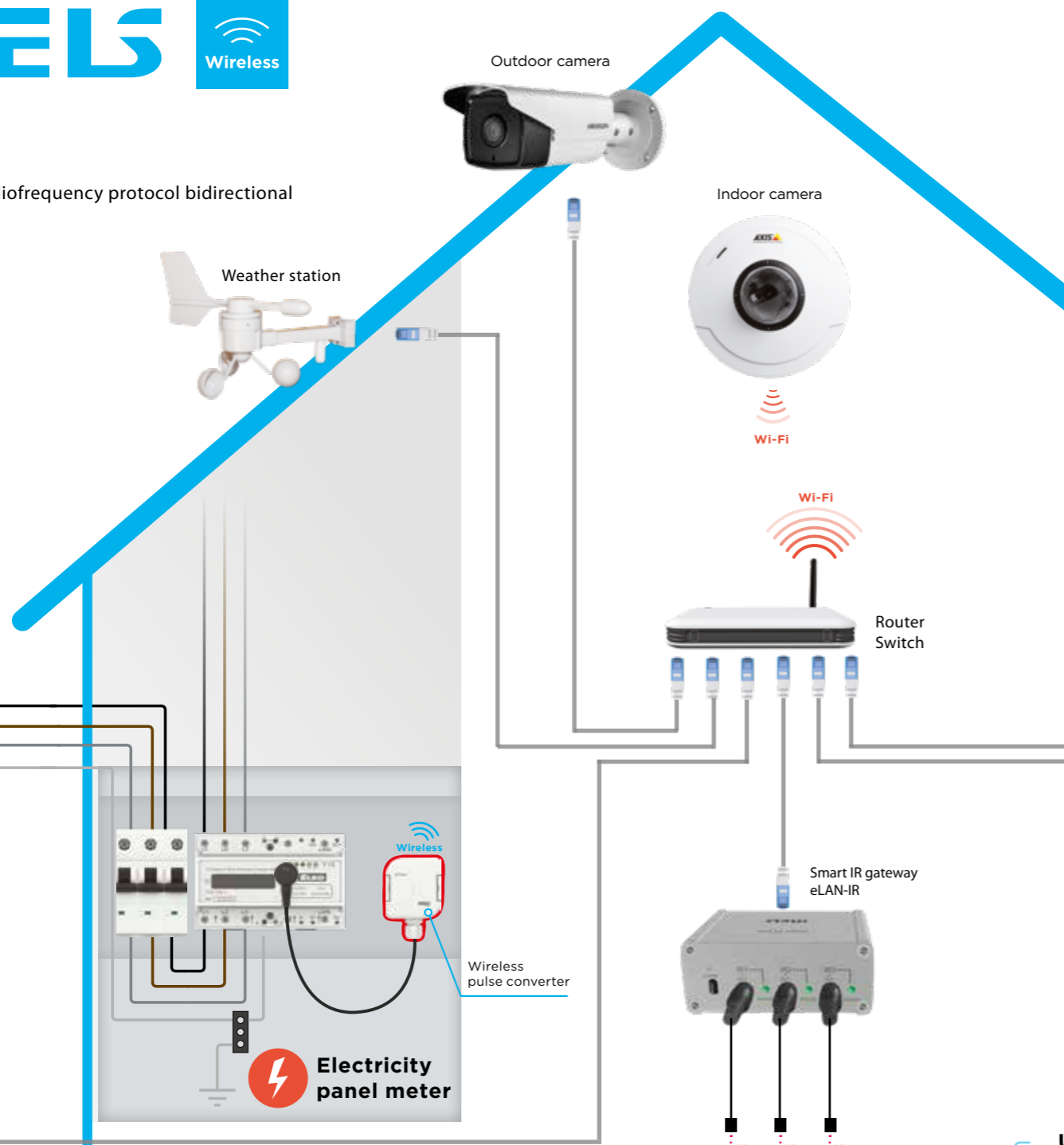
AN-E3
External antenna
Gain: 3 dBi, IP67



Extension cable for external antenna
10 m



- RFIO/RFIO2 - radiofrequency protocol bidirectional
- Wi-Fi
- LAN



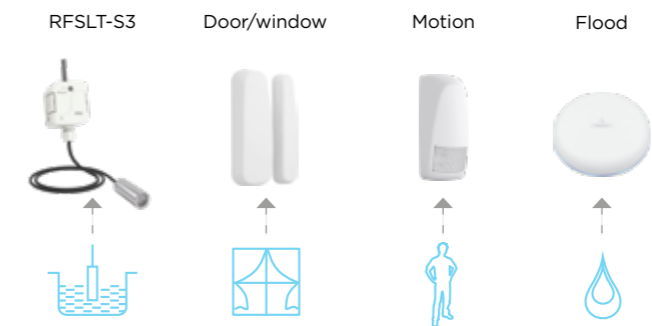
SW/APP



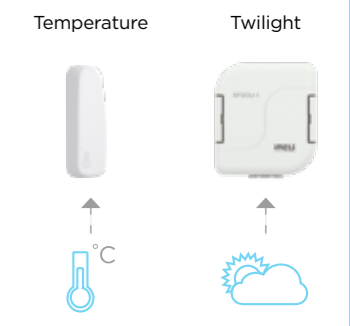
Controllers:



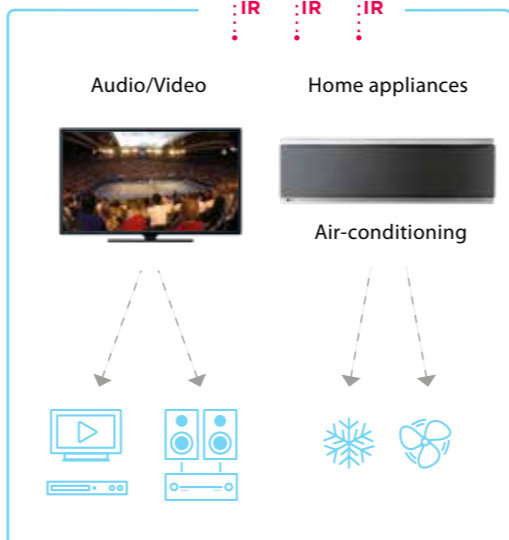
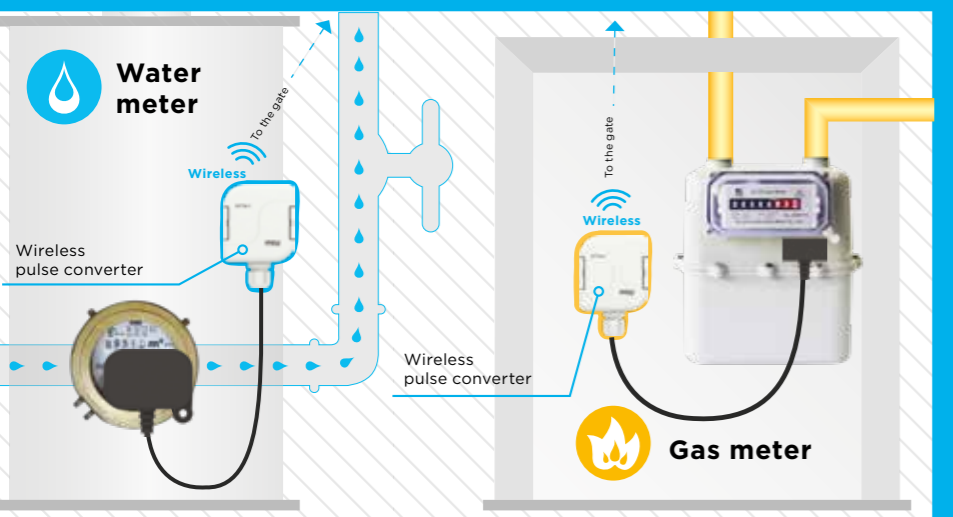
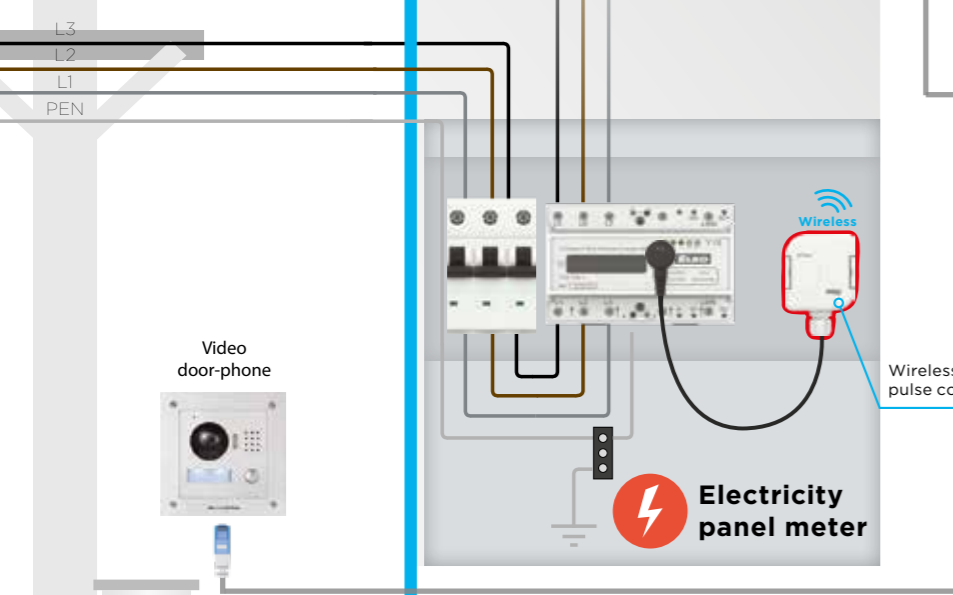
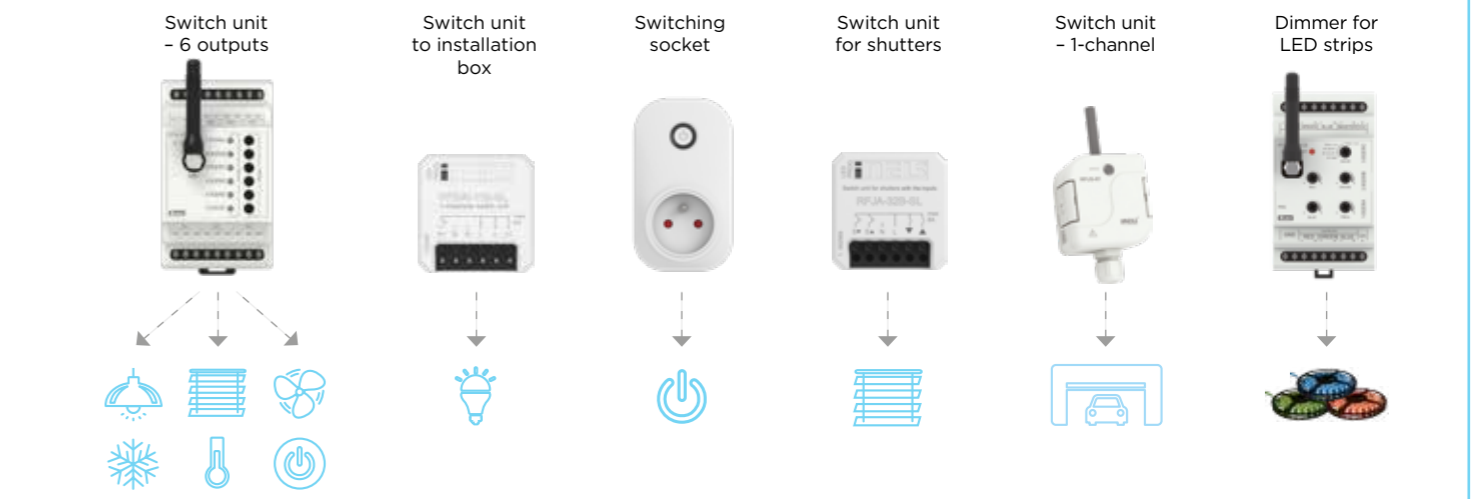
Detectors:

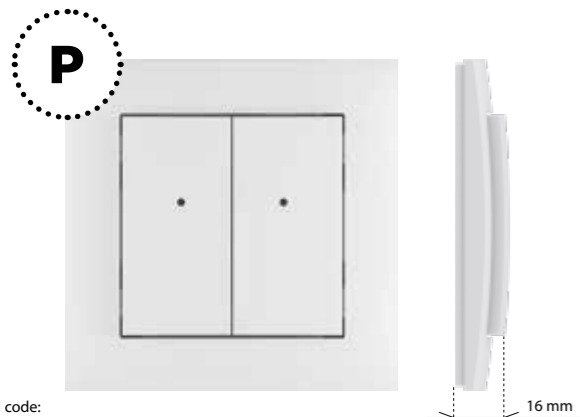


Sensors:



Units:





EAN code:
 RFWB-20/G: 8595188140379 RFWB-20/GB: 8595188191616
 RFWB-40/G: 8595188140607 RFWB-40/GB: 8595188191623

Technical parameters RFWB-20/G(GB) RFWB-40/G(GB)

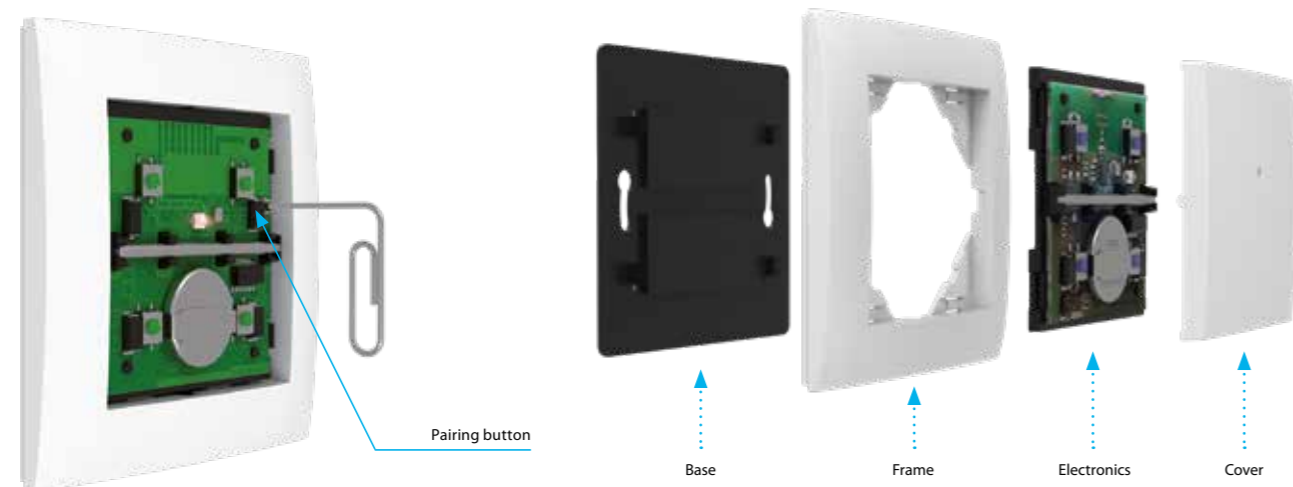
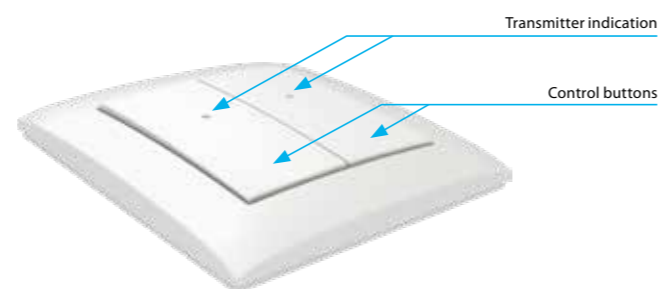
| | | |
|-----------------------------|--|---|
| Supply voltage: | 3 V CR 2032 battery | |
| Battery life: | around 5 years based on frequency of use | |
| Transmission indication: | red LED | |
| Number of buttons: | 2 | 4 |
| Communication protocol: | RFIO | |
| Frequency: | 866–922 MHz (for more information see p. 85) | |
| Signal transmission method: | unidirectionally addressed message | |
| Range: | in open space up to 200 m | |

Other data

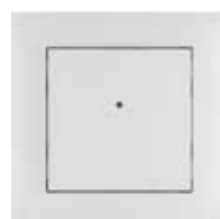
| | | |
|--------------------------------|--|------|
| Operating temperature: | -10 to +50 °C | |
| Operating position: | any | |
| Mounting: | glue/screws | |
| Protection: | IP20 | |
| Contamination degree: | 2 | |
| Dimensions frame | | |
| - plastic: | 85 x 85 x 16 mm | |
| - metal, glass, wood, granite: | 94 x 94 x 16 mm | |
| Weight (plastic):* | 38 g | 39 g |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 | |

- On-wall button controller is used to control switches and dimmers (lights, gate, garage door, blinds, etc.).
- **RFWB-20/G(GB)**: two buttons enable control of two units independently.
- **RFWB-40/G(GB)**: four buttons enable control of four units independently.
- The flat design with level base makes it ideal for fast installation on any surface (fixation with adhesive or screws in the installation box).
- When pressing the button, it sends a set signal (ON/OFF, dimming, time switching OFF/ON, blinds up/down).
- Sending a command is indicated by a red LED.
- In LOGUS[®] switch frame design (plastic, glass, wood, metal, stone).
- Option of setting light scenes, where with a single press, you can control units of iNELS Wireless.
- Battery power supply (3 V CR 2032 battery - included in the supply) with battery life of around 5 years based on frequency of use.
- Range up to 200 m (in open space), if the signal is insufficient between the controller and unit, use the signal repeater RFRP-20N or protocol component RFIO2 that support this feature.
- RFWB enables communication (RFIO2) and can thus communicate with the CU3-02M.
- Attention: The controller is paired with the elements using the pairing button. Ord. codes for controllers with pairing button: RFWB-20/G Order No.: 8502, RFWB-40/G Order No.: 8489, see Pairing controllers on p. 88.

Device description



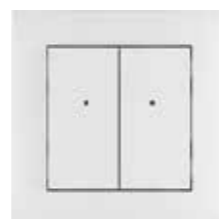
RFWB-20/GB



RFWB-20/G



RFWB-40/GB



RFWB-40/G



EAN code:
 RFOWB-20: 8595188181471

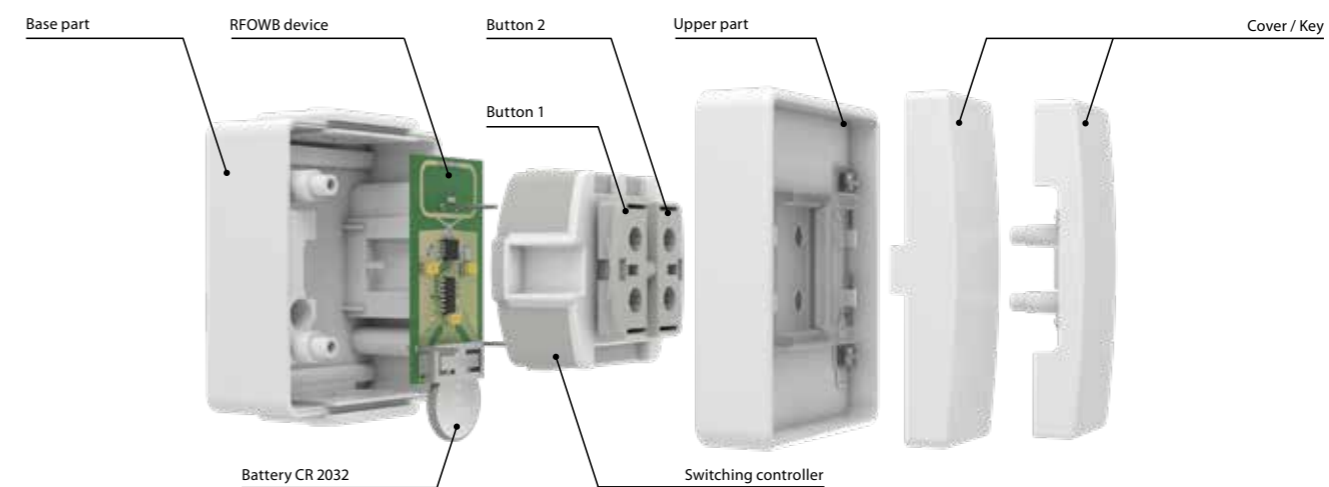
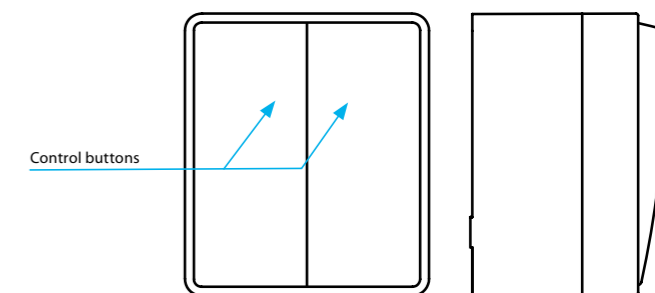
Technical parameters RFOWB-20

| | |
|-----------------------------|--|
| Supply voltage: | 3 V CR 2032 battery |
| Battery life: | around 5 years based on frequency of use |
| Transmission indication: | Integrated red LED |
| Number of buttons: | 2 |
| Communication protocol: | RFIO |
| Frequency: | 866–922 MHz (for more information see p. 85) |
| Signal transmission method: | unidirectionally addressed message |
| Range: | in open space up to 200 m |

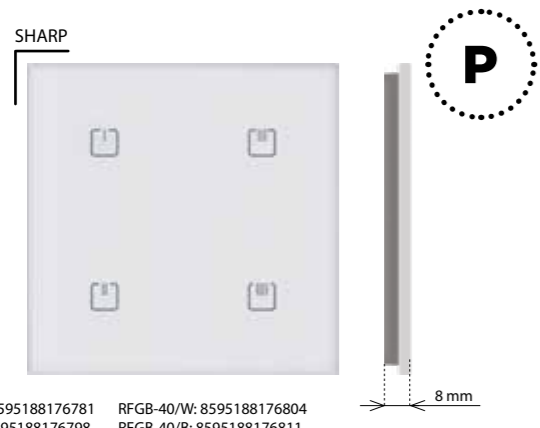
Other data

| | |
|------------------------|--|
| Operating temperature: | -10 to +50 °C |
| Mounting: | screws/double sided tape |
| Colour design: | white (RAL 9003) |
| Protection: | IP65 |
| Contamination degree: | 2 |
| Dimensions frame: | 64 x 74 x 44 mm |
| Weight: | 112 g |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 |

Device description



- The wireless push-button controller with IP65 protection is used to control iNELS Wireless components and protect them from the outdoor environment.
- 2 buttons allow (independently of each other) control of an unlimited number of components (actuators).
- The controller is suitable for control from the pool, garden, terrace, and pergola. It can be used as an uncovered bell button.
- Fastening with screws or double-sided tape.
- Battery power supply (3 V CR 2032 battery - included in the supply) with battery life of around 5 years based on frequency of use.
- Pairing controllers on p. 88

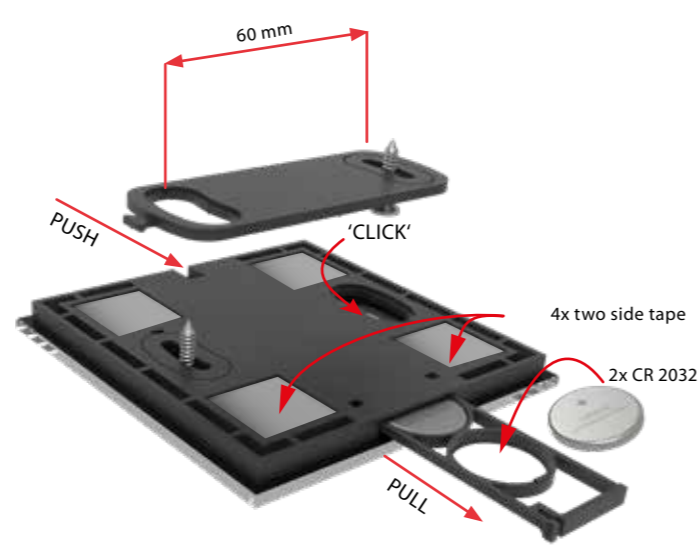
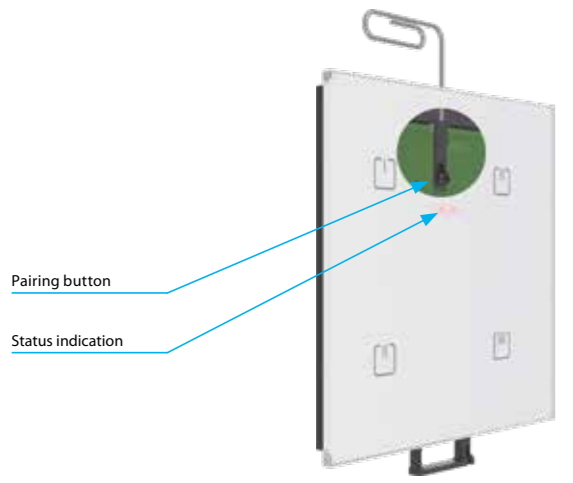
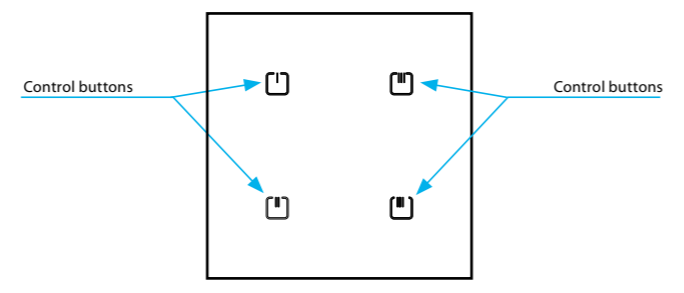


RFGB-20/W: 8595188176781 RFGB-40/W: 8595188176804
 RFGB-20/B: 8595188176798 RFGB-40/B: 8595188176811

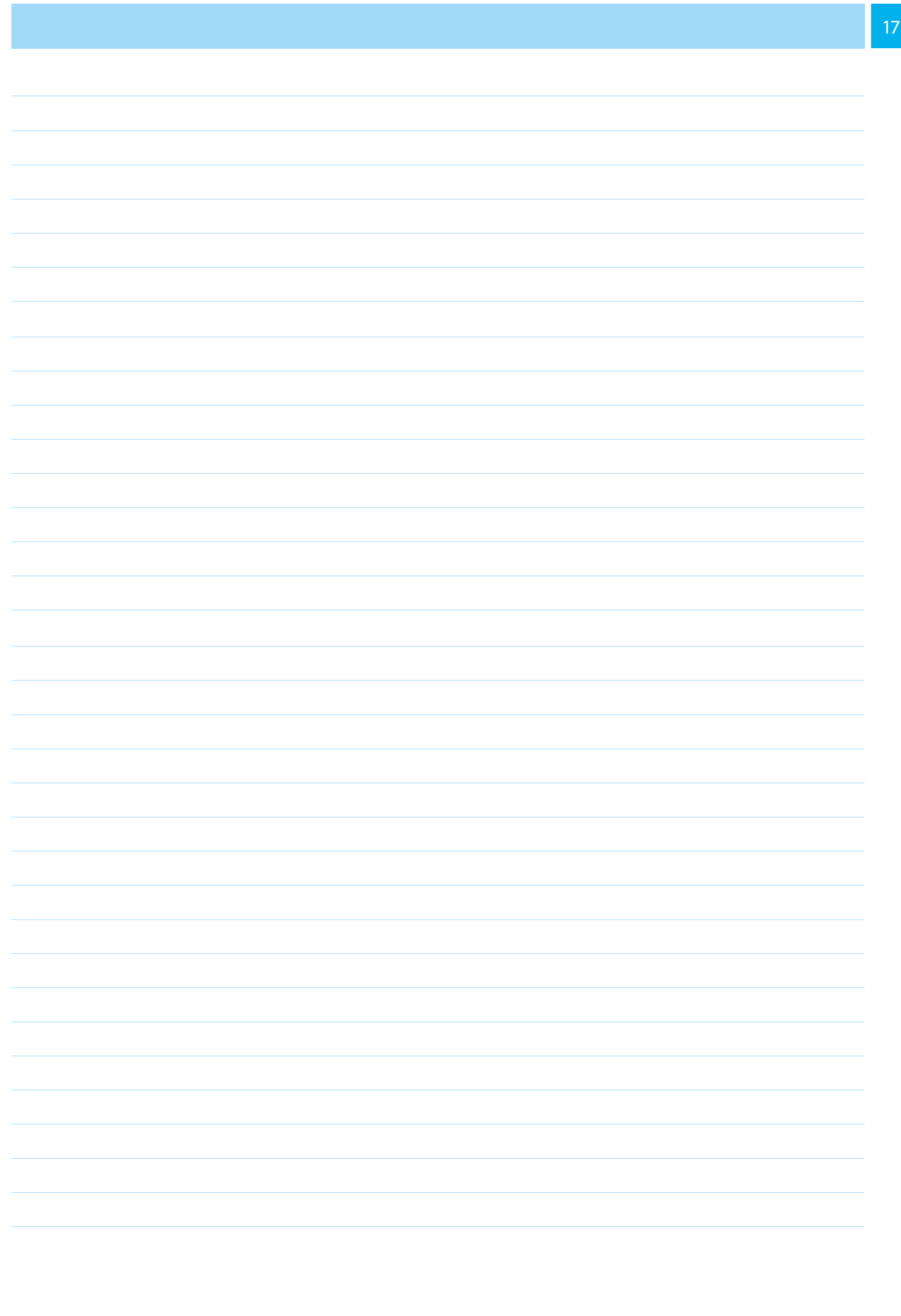
- The glass touch controller is a design iNELS Wireless unit and is available in elegant black and white variants.
- Only 8 mm thick.
- **RFGB-20:** 2 capacitive buttons allows to control 2 devices.
- **RFGB-40:** 4 capacitive buttons allows to control 4 devices.
- When pressing the button, it sends a set signal (ON/OFF, dimming, time switching OFF/ON, blinds up/down). Sending a command is indicated by a red LED.
- Option of setting light scenes, where with a single press, you can control units of iNELS Wireless.
- The rear base allows to be attached to installation using screws, double-sided tape or keeping controller on the table.
- Battery power supply (2x 3 V CR 2032 batteries - included in the supply) with battery life of around 2 years based on frequency of use.
- Range up to 200 m (in open space), if the signal is insufficient between the controller and unit, use the signal repeater RFRP-20N or protocol component RFIO2 that support this feature.
- Attention: The controller is paired with the elements using the pairing button. Ord. codes for controllers with pairing button: RFGB-20/W Order No.: 8513, RFGB-20/B Order No.: 8512, RFGB-40/W Order No.: 8514, RFGB-40/B Order No.: 8488, see Pairing controllers on p. 88.

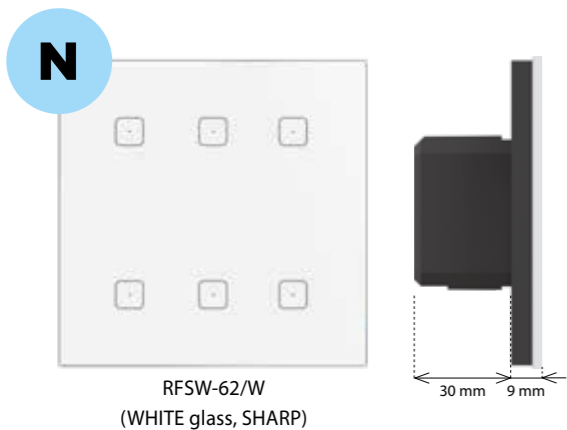
| Technical parameters | RFGB-20 | RFGB-40 |
|-------------------------------|--|---------|
| Supply voltage: | 2x 3 V CR 2032 batteries | |
| Battery life: | around 2 years based on frequency of use | |
| Transmission indication: | red LED | |
| Number of capacitive buttons: | 2 | 4 |
| Communication protocol: | RFIO | |
| Frequency: | 866–922 MHz (for more information see p. 85) | |
| Signal transmission method: | unidirectionally addressed message | |
| Range: | in open space up to 200 m | |
| Other data | | |
| Operating temperature: | -10 to +50 °C | |
| Operating position: | any | |
| Mounting: | glue/screws | |
| Protection: | IP20 | |
| Contamination degree: | 2 | |
| Dimensions: | 94 x 94 x 8 mm | |
| Weight: | 107 g | 107 g |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 | |

Device description



Variants

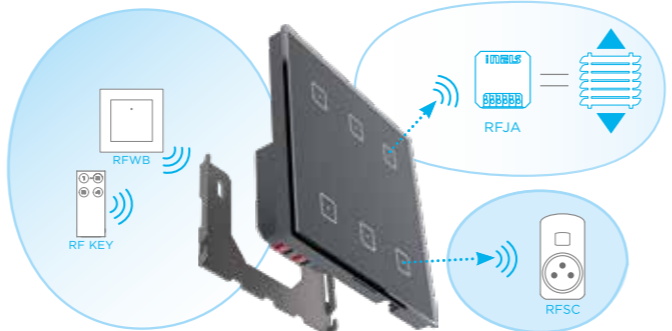
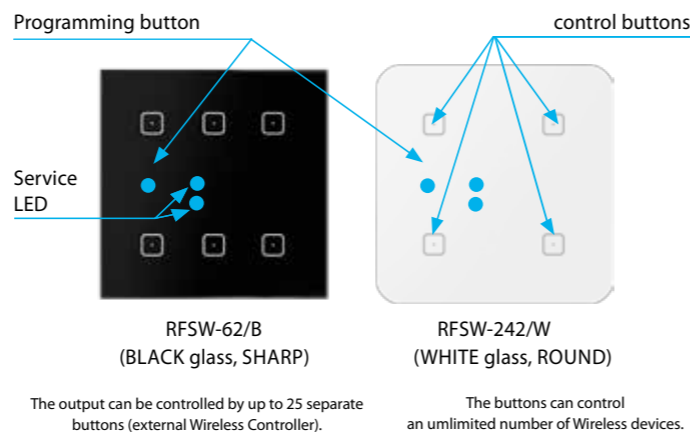




- The glass design controller with two output relays is used to control appliances and lights.
- The 4 or 6 button touch controls on the circuit breaker allow you to directly control the output relay as well as other iNELS wireless components of the installation.
- The backlight intensity (white LED) of the buttons is automatically adjusted depending on the ambient lighting.
- They can be combined with detectors, controllers, iNELS Wireless or system components.
- 6 functions – button, impulse relay and time function of delayed start or return with a time setting of 2 s - 60 min. Any function can be assigned to each output relay. Function description can be found on p. 82.
- Possibility to set the memory of the output state during a power failure and subsequent restoration of the power supply.
- Each of the outputs can be controlled by up to 12/12 channels (1 channel represents one button on the controller).
- Range up to 160 m (in open space).
- Communication frequency with bidirectional protocol RFIO2.
- Pairing controllers on p. 88.
- Available with AC 230V or AC/DC 24V power supply with the option of galvanically isolated relay output contacts from the power supply (see table on the next page and connection below)

| Technical parameters | | RFSW-xx |
|------------------------------|---|--------------|
| Supply voltage: | 230 V AC / 50-60 Hz | 24 V AC/DC |
| Apparent / Dissipated power: | 1.2 VA/0.6 W | 0.6 VA/0.6 W |
| Supply voltage tolerance: | ±10 % | |
| Output | | |
| Relays capacity: | 2x switching / 8 A / AC1 / 2000 VA / ZERO CROSS | |
| Peak current: | I _{peak} <110A 300us / max. input capacitance 125 uF | |
| Mechanical life: | mechanical 10 mil. / electrical 100,000 cycles | |
| Control | | |
| Number of Buttons: | 4 or 6 buttons | |
| Communication: | wireless, iNELS RFIO2 protocol | |
| Frequency: | 866-922 MHz (more on page 85) | |
| Repeater Function: | yes | |
| Range: | in open areas up to 160 m | |
| Connection | | |
| Terminal block: | screwless - push in | |
| Wire gauge: | 0.2 - 1.5 mm ² solid flexible | |
| Other data | | |
| Operating temperature: | -10 to +50 °C | |
| Storing temperature: | -30 to +70 °C | |
| Protection degree: | IP20 | |
| Oversvoltage category: | II. | |
| Pollution degree: | 2 | |
| Operation position: | any | |
| Installation: | flush mount to the installation box, BS or EU standard | |
| Dimensions: | Sharp: 94 x 94 x 39 mm / Round: 100 x 100 x 39 mm | |
| Weight: | Sharp: 131 g / Round: 138 g | |
| Related standards: | EN 60730, EN 63044, EN 301489, EN 300 220 | |

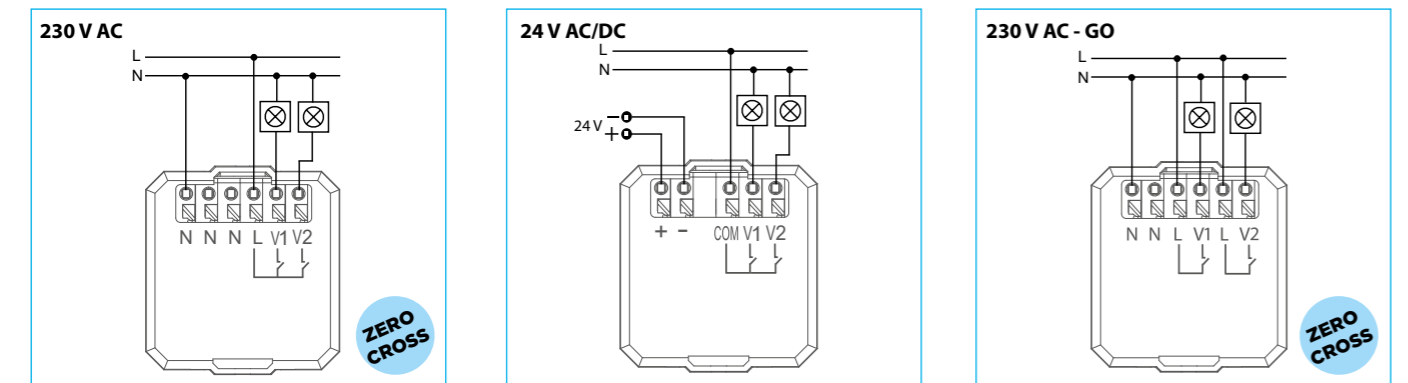
Instrument description



BUILT-IN ZERO CROSS

Output relays are equipped with ZERO CROSS technology, which allows switching the load when the voltage passes zero, i.e. in the minimum current consumption, which prevents burning and sticking of relay contacts - especially when switching electronic ballasts, which are part of each LED luminaire.

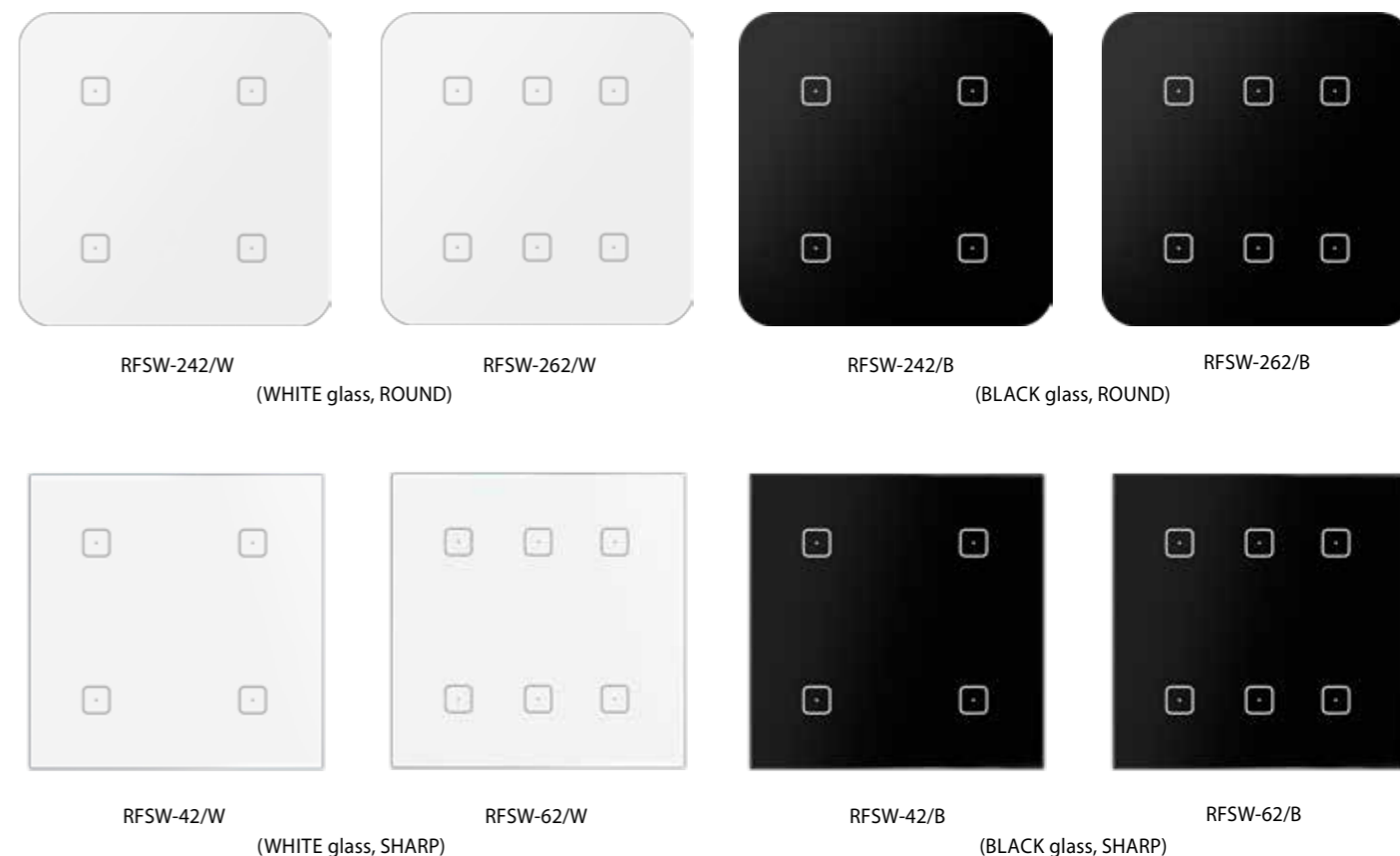
Connection



The output contacts (V1, V2) switch the phase potential (L) and are equipped with zero cross switching technology

The output contacts (V1, V2) are galvanically isolated from the power supply and share a common COM terminal

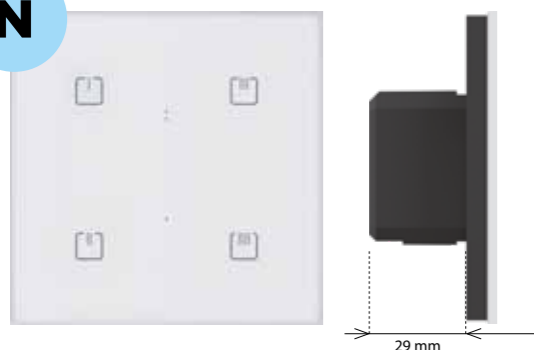
The output contacts (V1, V2) are galvanically isolated from the power supply and each has its own COM terminal. However, they must be connected to the same phase



Icons are illustrative - configure your own look using the configurator: icons.inels.com

| Type | Number of buttons | Design ROUND SHARP | Glass colour | Power supply | Galvanically isolated output contact | EAN | Code |
|-------------------|-------------------|--------------------|--------------|--------------|--------------------------------------|---------------|------|
| RFSW-42/W/230V | 4 | S | White | AC 230 V | - | 8595188188913 | 8891 |
| RFSW-62/W/230V | 6 | S | White | AC 230 V | - | 8595188193269 | 9326 |
| RFSW-242/W/230V | 4 | R | White | AC 230 V | - | 8595188188920 | 8892 |
| RFSW-262/W/230V | 6 | R | White | AC 230 V | - | 8595188193276 | 9327 |
| RFSW-42/B/230V | 4 | S | Black | AC 230 V | - | 8595188188708 | 8870 |
| RFSW-62/B/230V | 6 | S | Black | AC 230 V | - | 8595188193245 | 9324 |
| RFSW-242/B/230V | 4 | R | Black | AC 230 V | - | 8595188188906 | 8890 |
| RFSW-262/B/230V | 6 | R | Black | AC 230 V | - | 8595188193252 | 9325 |
| RFSW-42/W/24V | 4 | S | White | AC/DC 24 V | ✓ | 8595188193221 | 9322 |
| RFSW-62/W/24V | 6 | S | White | AC/DC 24 V | ✓ | 8595188193344 | 9334 |
| RFSW-242/W/24V | 4 | R | White | AC/DC 24 V | ✓ | 8595188193238 | 9323 |
| RFSW-262/W/24V | 6 | R | White | AC/DC 24 V | ✓ | 8595188193351 | 9335 |
| RFSW-42/B/24V | 4 | S | Black | AC/DC 24 V | ✓ | 8595188193207 | 9320 |
| RFSW-62/B/24V | 6 | S | Black | AC/DC 24 V | ✓ | 8595188193320 | 9332 |
| RFSW-242/B/24V | 4 | R | Black | AC/DC 24 V | ✓ | 8595188193214 | 9321 |
| RFSW-262/B/24V | 6 | R | Black | AC/DC 24 V | ✓ | 8595188193337 | 9333 |
| RFSW-42/WGO/230V | 4 | S | White | AC 230 V | ✓ | 8595188193184 | 9318 |
| RFSW-62/WGO/230V | 6 | S | White | AC 230 V | ✓ | 8595188193306 | 9330 |
| RFSW-242/WGO/230V | 4 | R | White | AC 230 V | ✓ | 8595188193191 | 9319 |
| RFSW-262/WGO/230V | 6 | R | White | AC 230 V | ✓ | 8595188193313 | 9331 |
| RFSW-42/BGO/230V | 4 | S | Black | AC 230 V | ✓ | 8595188193160 | 9316 |
| RFSW-62/BGO/230V | 6 | S | Black | AC 230 V | ✓ | 8595188193283 | 9328 |
| RFSW-242/BGO/230V | 4 | R | Black | AC 230 V | ✓ | 8595188193177 | 9317 |
| RFSW-262/BGO/230V | 6 | R | Black | AC 230 V | ✓ | 8595188193290 | 9329 |

N



EAN code:
 RFDW-71/W: 8595188188944 RFDW-271/W: 8595188188951
 RFDW-71/B: 8595188188241 RFDW-271/B: 8595188188937

Technical parameters RFDW-71/230V, RFDW-271/230V

| | |
|---------------------------|---------------------|
| Supply voltage: | 230 V AC / 50-60 Hz |
| Apparent power: | 1.1 VA |
| Dissipated power: | 0.8 W |
| Supply voltage tolerance: | ±10 % |
| Dimmed load: | R,L,C, LED, ESL |

Output

| | |
|-----------------|------------|
| Contactless: | 2 x MOSFET |
| Load capacity*: | max. 160 W |

Control

| | |
|-------------------------|--|
| Wireless: | up to 25-channels (buttons) |
| Communication protocol: | RFIO2 |
| Frequency: | 866-922 MHz (for more information see p. 85) |
| Repeater function: | yes |
| Manual control: | 4 touch keys, button PROG |
| Button backlight: | white LED with intensity change |
| Indications PROG: | red/green LED |
| Range: | in open space up to 160 m |

Connection

| | |
|------------------------|--|
| Max. cable size (mm2): | screwless clamps 0.2 - 1.5 mm ² solid/flexible |
|------------------------|--|

Other data

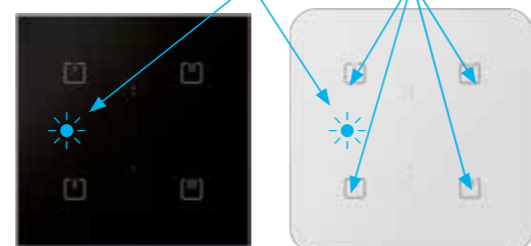
| | |
|------------------------|---|
| Operating temperature: | -10 to +40 °C |
| Storing temperature: | -30 to +70 °C |
| Protection degree: | IP20 |
| Overvoltage category: | II. |
| Pollution degree: | 2 |
| Operation position: | any |
| Installation: | into installation box |
| Dimensions: | 94 x 94 x 41 mm |
| Weight: | 129 g |
| Related standards: | EN 60730, EN 63044, EN 301489, EN 300 220 |

* See page 75 for the load chart for each light source.

- The glass design controller with dimmer and touch buttons is used to control light sources:
 - R – classic lamps (resistive load)
 - L – halogen lamps with wound transformer (inductive load)
 - C – halogen lamps with electronic transformer (capacity load)
 - ESL – dimmable energy-efficient fluorescent lamps
 - LED – LED light sources (230 V) equipped with LED.
- The touch buttons on the circuit breaker allow you to directly control the integrated dimmer as well as other components of the installation.
- The backlight intensity (white LED) of the buttons is automatically adjusted depending on the ambient lighting.
- They can be combined with detectors, controllers, iNELS Wireless or system components for output control from other locations.
- 7 light functions – smooth increase or decrease with time setting 2 s – 30 min. Function description can be found on p. 82.
- When switched off, the set level is stored in the memory, and when switched back on, it returns to the most recently set value.
- Thanks to setting the min. brightness you will eliminate flashing of the LED and ESL light sources.
- The universal dimmer may be controlled by up to 25-channels.
- Possibility to set the memory status in case of power failure.
- Range up to 160 m (in open space), if the signal is insufficient between the controller and unit, use the signal repeater RFRP-20N or protocol component RFIO2 that support this feature.
- Communication frequency with bidirectional protocol RFIO2.
- Pairing controllers on p. 88.

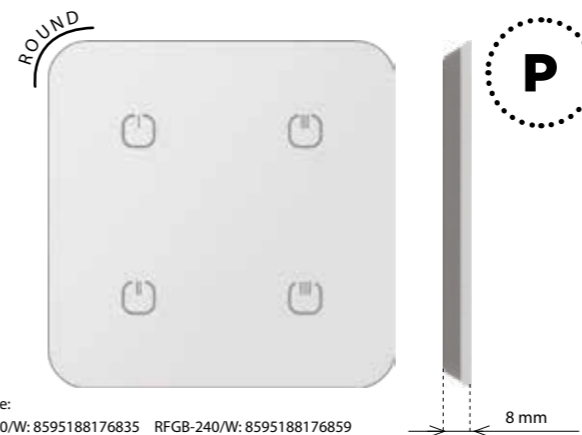
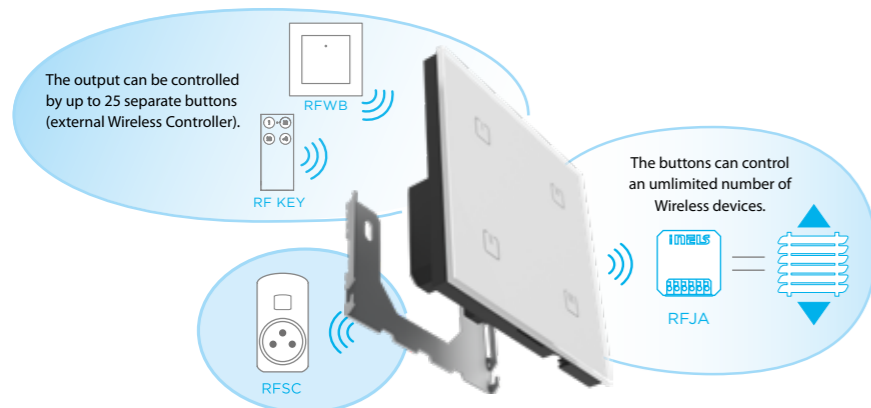
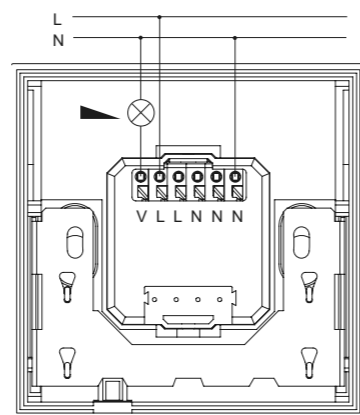
Colour variants

Programming button 4x control buttons



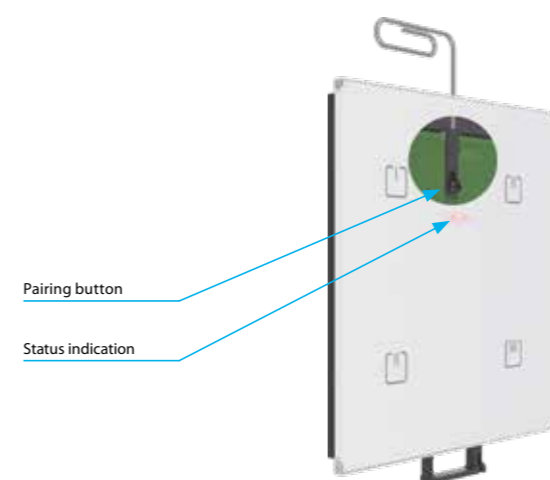
RFDW-71/B (Black glass, sharp edges) RFDW-271/W (White glass, round edges)

Connection



EAN code:
 RFGB-220/W: 8595188176835 RFGB-240/W: 8595188176859
 RFGB-220/B: 8595188176842 RFGB-240/B: 8595188176866

| Technical parameters | RFGB-220 | RFGB-240 |
|-------------------------------|--|----------|
| Supply voltage: | 2x 3 V CR 2032 batteries | |
| Battery life: | around 2 years based on frequency of use | |
| Transmission indication: | red LED | |
| Number of capacitive buttons: | 2 | 4 |
| Communication protocol: | RFIO | |
| Frequency: | 866-922 MHz (for more information see p. 85) | |
| Signal transmission method: | unidirectionally addressed message | |
| Range: | in open space up to 200 m | |
| Other data | | |
| Operating temperature: | -10 to +50 °C | |
| Operating position: | any | |
| Mounting: | glue/screws | |
| Protection: | IP20 | |
| Contamination degree: | 2 | |
| Dimensions: | 100 x 100 x 8 mm | |
| Weight: | 108 g | 108 g |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 | |

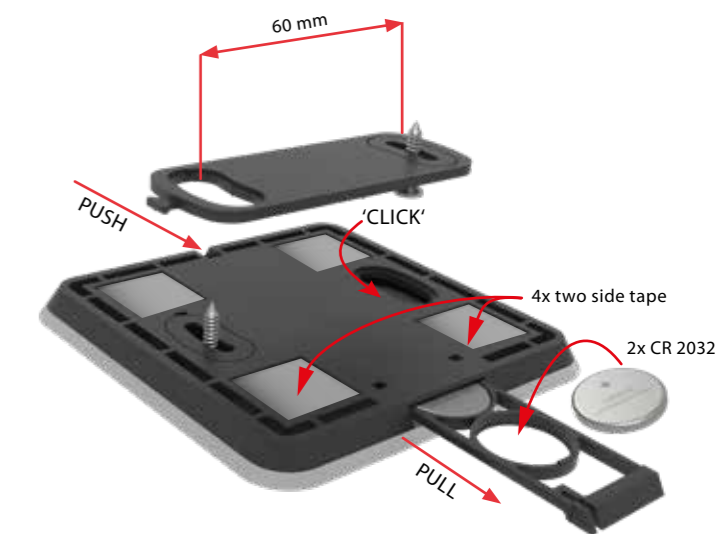
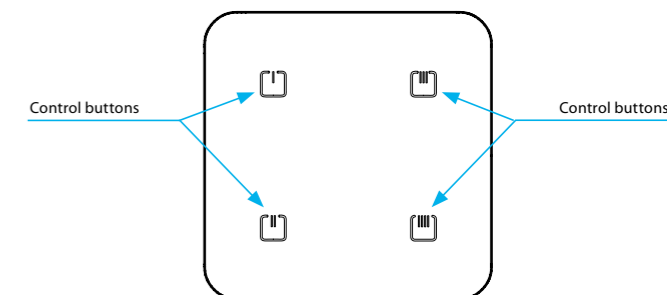


Variants



- The glass touch controller is a design iNELS Wireless unit and is available in elegant black and white variants.
- Only 8 mm thick.
- RFGB-220: 2 capacitive buttons allows to control 2 devices.
- RFGB-240: 4 capacitive buttons allows to control 4 devices.
- When pressing the button, it sends a set signal (ON/OFF, dimming, time switching OFF/ON, blinds up/down). Sending a command is indicated by a red LED.
- Option of setting light scenes, where with a single press, you can control units of iNELS Wireless.
- The rear base allows to be attached to installation using screws, double-sided tape or keeping controller on the table.
- Battery power supply (2x 3 V CR 2032 batteries - included in the supply) with battery life of around 2 years based on frequency of use.
- Range up to 200 m (in open space), if the signal is insufficient between the controller and unit, use the signal repeater RFRP-20N or protocol component RFIO2 that support this feature.
- Attention: The controller is paired with the elements using the pairing button. Ord. codes for controllers with pairing button: RFGB-220/W Order No.: 8517, RFGB-220/B Order No.: 8518, RFGB-240/W Order No.: 8515, RFGB-240/B Order No.: 8516, see Pairing controllers on p. 88.

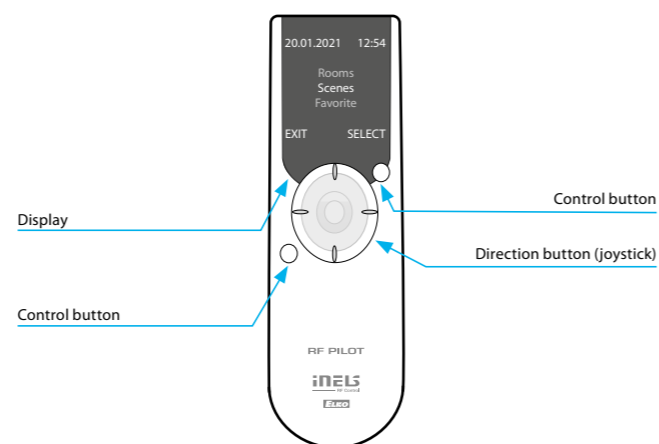
Device description





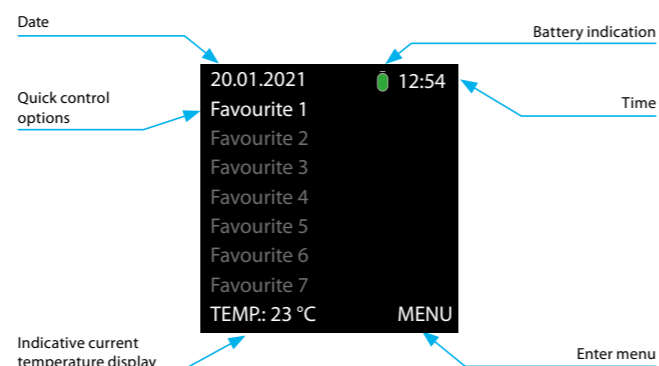
- The Remote Wireless controller with display is a central controller for switching electrical appliances and equipment, dimming lights, controlling blinds, etc.
- Designed in white and anthracite with colour OLED display.
- 4 directional joystick + 2 buttons for intuitive operation.
- Option of setting light scenes, where with a single press, you can control up to 10 units at once.
- Display of room temperature, battery status, date and time directly on display.
- The Favorites mode lets you preset the most frequently used devices on the home screen.
- Bidirectional communication, transmits and receives commands and displays the status of units.
- Thanks to the function of measuring the signal between the controller and unit, you can use it for testing the range and signal quality.
- Battery power (2x 1.5 V AAA batteries - included in supply) with battery life of around 3 years based on frequency of use and type of batteries.
- Range up to 200 m (in open space), if the signal is insufficient between the controller and unit, use the signal repeater RFRP-20N or protocol component RFIO2 that support this feature.

Device description



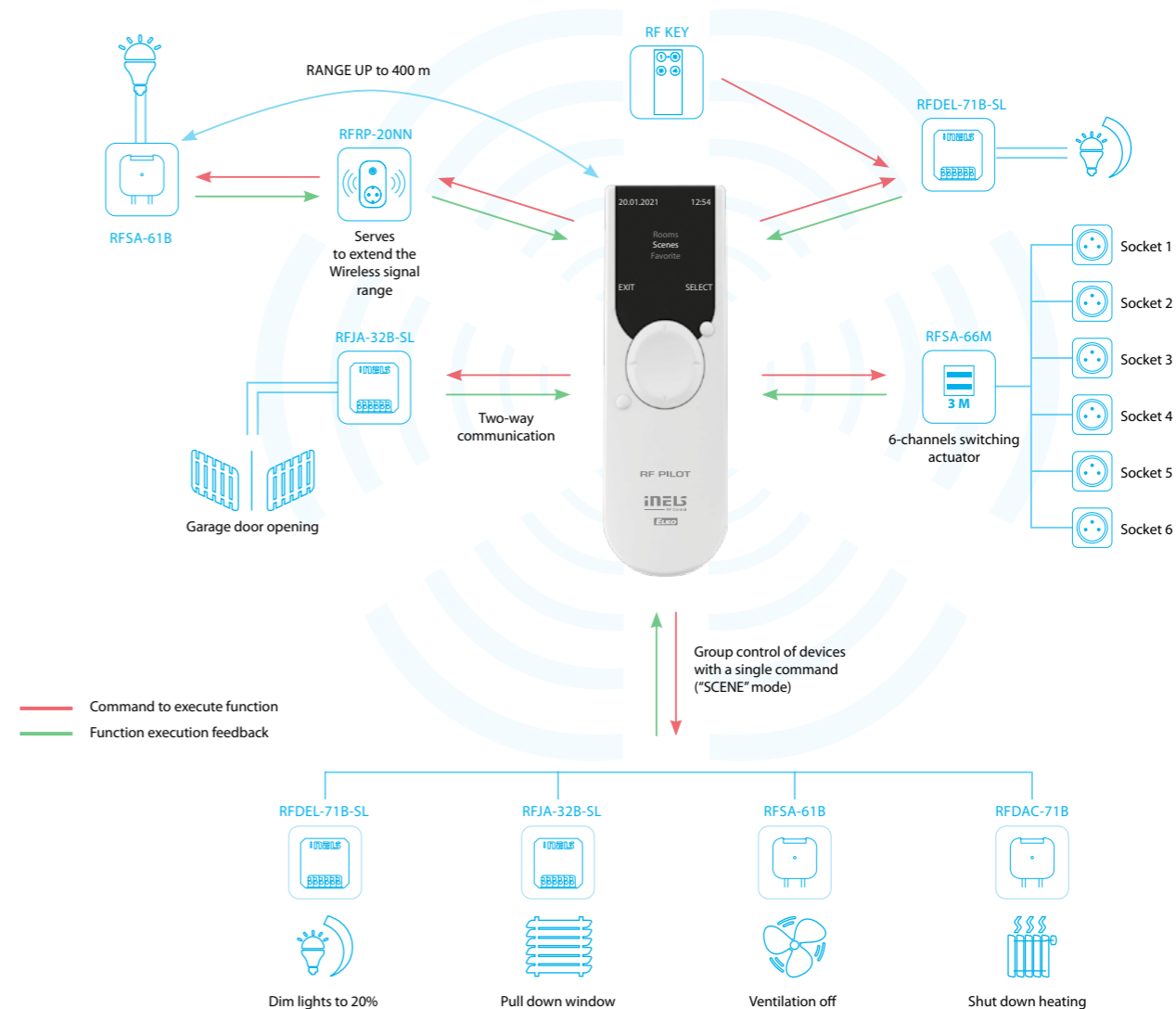
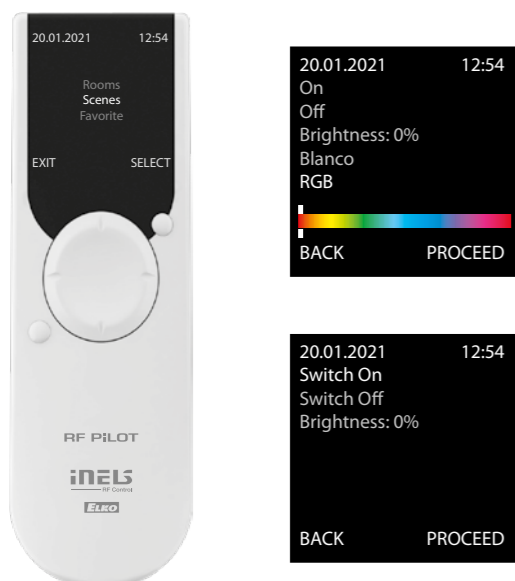
Display description

Colour LED display



| Technical parameters | RF Pilot/W | RF Pilot/A |
|-------------------------|---|------------|
| Display | | |
| Type: | colour OLED | |
| Resolution: | 128 x 128 pixels | |
| Side ratio: | 1:1 | |
| Visible surface: | 26 x 26 mm | |
| Backlighting: | self-illuminating text | |
| Diagonal: | 1.5" | |
| Control: | direction button, control buttons | |
| Power supply | | |
| Power supply: | 2 x 1.5 V AAA batteries/R03 | |
| Battery life: | approx. 3 years, according to the frequency of use and battery type | |
| Control | | |
| Range: | in open space up to 200 m | |
| Communication protocol: | RFIO | |
| Frequency: | 866–922 MHz (for more information see p. 85) | |
| Other data | | |
| Operating temperature: | 0 to +55 °C | |
| Storage temperature: | -20 to +70 °C | |
| Colour design: | white | anthracite |
| Protection: | IP20 | |
| Operating position: | any | |
| Dimensions: | 130 x 41 x 18 mm | |
| Weight: | 61 g | |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 | |

RF Pilot



- Command to execute function
- Function execution feedback

SCENES

- serves to control actuators as a group with a single touch
- possibility to set up scenes; on activation, for example, window shutters are pulled down and the light will adjust to the required brightness

WINDOW SHUTTERS

- controlling window shutters, blinds, garage door, etc.
- window shutters are controlled separately or as a group
- the window shutter receivers are powered by either 230 V or 24 V DC (shutters between windows)

FAVOURITE

- serves to select the most frequently used devices
- on display activation, the "Favourite" menu pops up automatically to provide you with a quick access to controlling devices

SWITCHING

- this function serves to switch on/off lights, sockets, electrical appliances and devices
- intuitive control thanks to customized name options
- switching actuator function selections: switch on/off, impulse relay, button, delayed ON/OFF (time of delay from 2 seconds to 60 minutes)
- function description can be found on p. 82

DIMMING

- the regulation of light intensity (light bulbs, LED strips, halogen lights with electrical or coil transformer, fluorescent tubes with dimmable ballast 1–10 V)
- customizable names of individual dimmed circuits (such as "lights" or "living room")
- "sunrise/sunset" imitation - light gradually goes on or off during the preset period between 2 seconds and 30 minutes
- function description can be found on p. 82



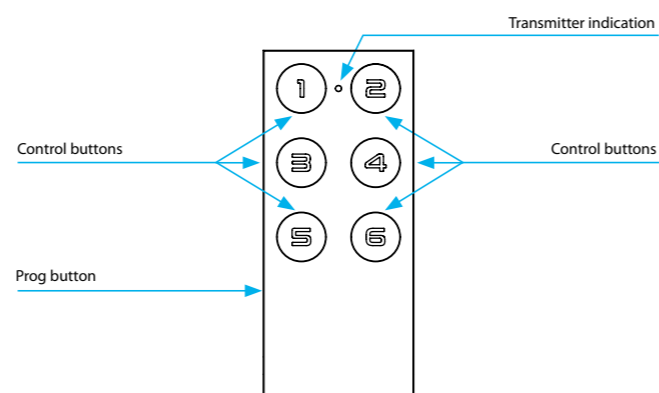
EAN code:

RF KEY-40/W: 8595188180740 RF KEY-60/W: 8595188180764
RF KEY-40/B: 8595188180757 RF KEY-60/B: 8595188180771

| Technical parameters | RF KEY-40 | RF KEY-60 |
|-----------------------------|--|-----------|
| Supply voltage: | 3 V CR 2032 battery | |
| Battery life: | around 5 years based on frequency of use | |
| Transmission indication: | red LED | |
| Number of buttons: | 4 | 6 |
| Communication protocol: | RFIO | |
| Transmitter frequency: | 866–922 MHz (for more information see p. 85) | |
| Signal transmission method: | unidirectionally addressed message | |
| Range: | in open space up to 200 m | |
| Other data | | |
| Operating temperature: | -10 to +50 °C | |
| Operating position: | any | |
| Colour design: | white, black | |
| Protection: | IP20 | |
| Contamination degree: | 2 | |
| Dimensions: | 64 x 25 x 10 mm | |
| Weight: | 16 g | |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 | |

- Key fob – sized remote control, available in black and white.
- When pressing the button, it sends a set signal (ON/OFF, dimming, time switching OFF/ON, blinds up/down).
- **RF KEY-40:** four buttons enable control of four units independently.
- **RF KEY-60:** six buttons enable control of four units independently.
- Battery power supply (3 V CR 2032 battery - included in the supply) with battery life of around 5 years based on frequency of use.
- Attention: The controller is paired with the elements using the pairing button. Ord. codes for controllers with pairing button: RF KEY-40/W Order No.: 8504, RF KEY-40/B Order No.: 8503, RF KEY-60/W Order No.: 8505, RF KEY-60/B Order No.: 8490, see Pairing controllers on p. 88.

Device description



Variants

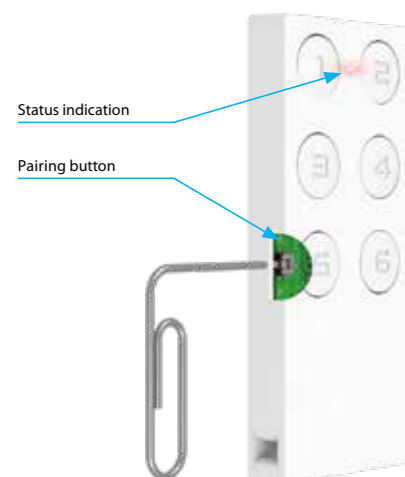


RF KEY-40/W

RF KEY-60/W

RF KEY-40/B

RF KEY-60/B



Status indication

Pairing button



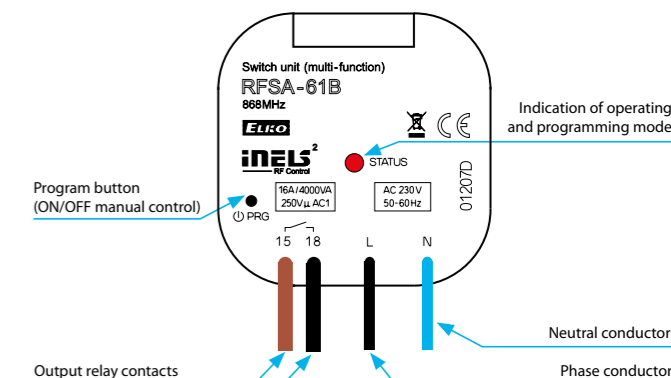
EAN code:

RFSA-61B: 8595188136242

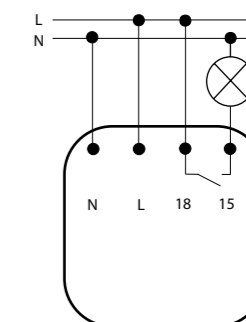
| Technical parameters | RFSA-61B/230V |
|-------------------------------------|--|
| Supply voltage: | 230 V AC |
| Supply voltage frequency: | 50–60 Hz |
| Apparent input: | 7 VA/cos φ= 0.1 |
| Dissipated power: | 0.7 W |
| Supply voltage tolerance: | +10 %; -15 % |
| Output | |
| Number of contacts: | 1x NO, non potential |
| Rated current: | 16 A/AC1 |
| Switching power: | 4000 VA/AC1, 384 W/DC |
| Peak current: | 30 A/<3 s |
| Switching voltage: | 250 V AC1/24 V DC |
| Max. DC switching power: | 500 mW |
| Mechanical service life: | 3x 10 ⁷ |
| Electrical service life (AC1): | 0.7x 10 ⁵ |
| Control | |
| Wireless: | up to 25-channels (buttons) |
| Communication protocol: | RFIO2 |
| Frequency: | 866–922 MHz (for more information see p. 85) |
| Repeater function: | yes |
| Manual control: | button PROG (ON/OFF) |
| Range: | in open space up to 200 m |
| Other data | |
| Operating temperature: | -15 to +50 °C |
| Operating position: | any |
| Mounting: | free at lead-in wires |
| Protection: | IP30 |
| Overvoltage category: | III. |
| Contamination degree: | 2 |
| Terminals (CY wire, cross-section): | 2x 0.75 mm ² , 2x 2.5 mm ² |
| Length of terminals: | 90 mm |
| Dimensions: | 49 x 49 x 21 mm |
| Weight: | 46 g |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 |

- The switching unit with 1 output channel 16 A is used to control appliances, lights (easy to integrate it to control garage doors or gates).
- They can be combined with detectors, controllers, iNELS Wireless or system components.
- **RFSA-61B:** multifunction design – button, impulse relay and time function of delayed ON or OFF with time setting of 2 s – 60 min. Function description can be found on p. 86.
- The switching unit may be controlled by up to 25-channels.
- The programming button on the unit is also used for manual control of the output.
- Memory status can be pre-set in the event of a power failure.
- Range up to 200 m (in open space), if the signal is insufficient between the controller and unit, use the signal repeater RFRP-20N or protocol component RFIO2 that support this feature.
- The BOX design lets you mount it right in an installation box, a ceiling or controlled appliance cover.

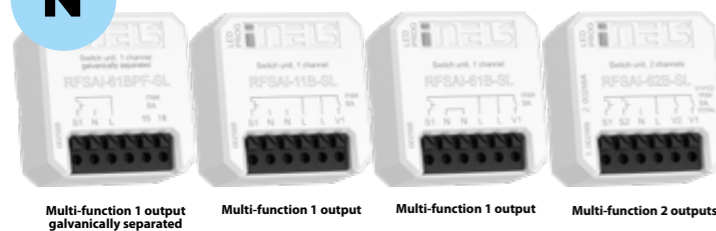
Device description



Connection



N



EAN code:
 RFSAI-61BPF-SL: 8595188189101
 RFSAI-11B-SL: 8595188183758
 RFSAI-61B-SL: 8595188182041
 RFSAI-62B-SL: 8595188182010

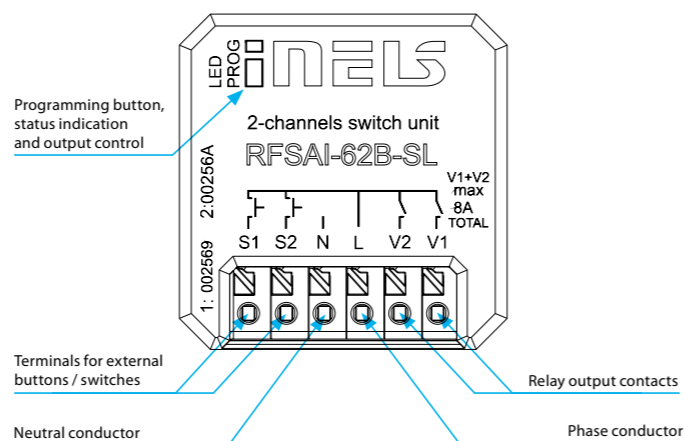
| Technical parameters | RFSAI-61BPF-SL | RFSAI-11B-SL | RFSAI-61B-SL | RFSAI-62B-SL |
|--------------------------------|---|--------------|----------------|--------------|
| Supply voltage: | 230 V AC | | | |
| Supply voltage frequency: | 50-60 Hz | | | |
| Apparent input: | 7 VA / $\cos \varphi = 0.1$ | | | |
| Dissipated power: | 0.7 W | | | |
| Supply voltage tolerance: | +10 %; -15 % | | | |
| Output | | | | |
| Number of contacts: | 1x switching | | 2x switching | |
| Rated current: | 8 A / AC1 | | | |
| Switching power: | 2000 VA / AC1 | | | |
| Peak current: | I _{peak} < 110A 300us / max. input capacity 125 uF | | | |
| Switching voltage: | 250 V AC1 | | | |
| Mechanical service life: | 1x10 ⁷ | | | |
| Electrical service life (AC1): | 1x10 ⁵ | | | |
| Control | | | | |
| Wireless: | 25-channels | | 2x 12-channels | |
| Number of functions: | 6 | 1 | 6 | 6 |
| Communication protocol: | RFIO2 | | | |
| Frequency: | 866-922 MHz (for more information see p. 85) | | | |
| Repeater function: | yes | | | |
| Manual control: | button PROG (ON/OFF) | | | |
| External button / switch: | yes | | | |
| Range: | in open space up to 200 m | | | |
| Other data | | | | |
| Operating temperature: | -15 to + 50 °C | | | |
| Operating position: | any | | | |
| Mounting: | free at lead-in wires | | | |
| Protection: | IP40 | | | |
| Overvoltage category: | III. | | | |
| Contamination degree: | 2 | | | |
| Connection: | screwless terminals | | | |
| Connecting conductor: | 0.2-1.5 mm ² solid/flexible | | | |
| Dimensions: | 43 x 44 x 22 mm | | | |
| Weight: | 31g | | 45 g | |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 | | | |

Function description

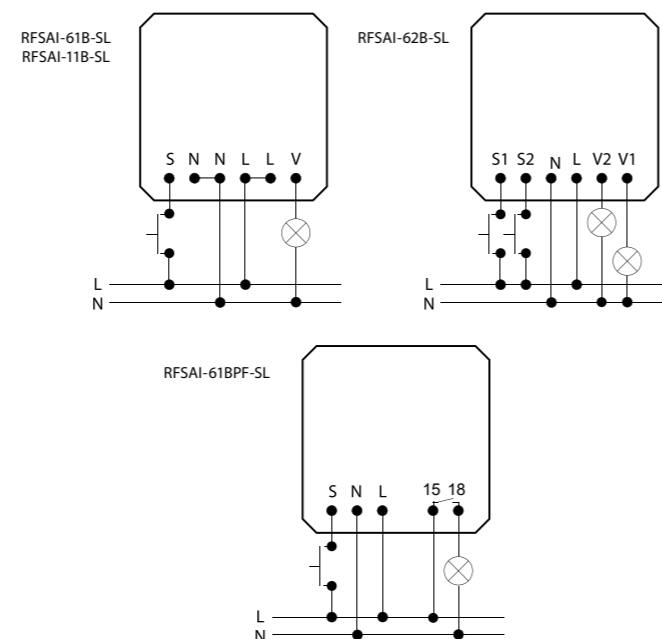
1. Button, impulse relay and time functions of delayed start or return with time setting 2 s-60 min. Any function can be assigned to each output relay.
2. The programming button on the element also serves as a manual input control.

- The switching component with one/two output relays is used to control appliances and lights. Switches/buttons connected to the wiring can be used for control.
- They can be combined with Detectors, Controllers or iNELS Wireless System Components.
- The BOX-SL version offers installation directly in the installation box, ceiling or cover of the controlled appliance. Easy installation thanks to screwless terminals.
- It allows the connection of switched loads with a total sum of 8 A (2,000 W).
- Switching element RFSAI-61BPF-SL has galvanically isolated terminals (potential-free contact)
- Functions: for RFSAI 61B-SL and RFSAI 62B-SL - pushbutton, impulse relay and time functions of delayed start or return with time setting 2 s-60 min. Any function can be assigned to each output relay. For RFSAI-11B-SL, the button has a fixed function - ON / OFF. Function description can be found on p. 86.
- The external button is assigned in the same way as the wireless one.
- Each of the outputs can be controlled by up to 12/12 channels (1-channel represents one button on the controller). Up to 25 channels for RFSAI-61B-SL and RFSAI-11B-SL.
- The programming button on the component also serves as a manual output control.
- Possibility to set the output status memory in case of failure and subsequent power recovery.
- The elements of the repeater can be set for the components via the RFAF / USB service device, PC, application.
- Range up to 200 m (outdoors), in case of insufficient signal between the controller and the device, use the RFRP-20N signal repeater or component with the RFIO2 protocol that support this function.
- Communication with bidirectional RFIO2 protocol.
- The contact material of the AgSnO₂ relay enables switching of light ballasts.

Device description



Connection

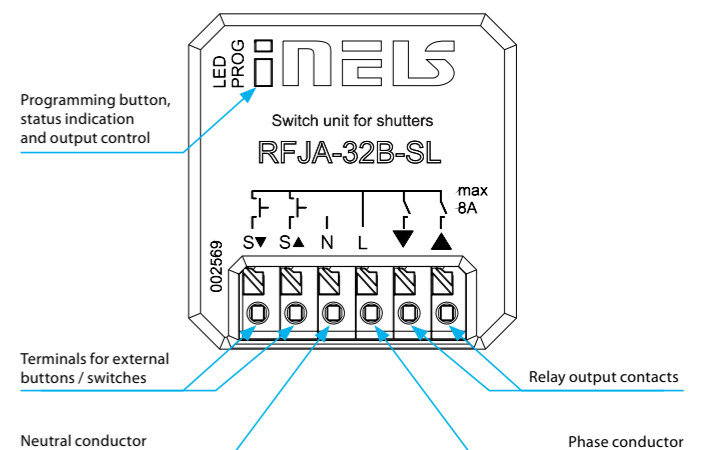


EAN code:
 RFJA-32B-SL: 8595188182546

| Technical parameters | RFJA-32B-SL |
|--|--|
| Supply voltage: | 230 V AC |
| Supply voltage frequency: | 50-60 Hz |
| Apparent input: | 7 VA / $\cos \varphi = 0.1$ |
| Dissipated power: | 0.7 W |
| Supply voltage tolerance: | +10 %; -15 % |
| Output | |
| Number of contacts: | 2x switching |
| Rated current: | 8 A / AC1 |
| Switching power: | 2000 VA / AC1 |
| Peak current: | 10 A / < 3 s |
| Switching voltage: | 250 V AC1 |
| Mechanical service life: | 1x10 ⁷ |
| Electrical service life (AC1): | 1x10 ⁵ |
| Control | |
| Wireless: | 25-channels |
| Communication protocol: | RFIO2 |
| Frequency: | 866-922 MHz (for more information see p. 85) |
| Repeater function: | yes |
| Manual control: | PROG (ON/OFF) button |
| External button / switch: | max. 100 m cable |
| Range: | in open space up to 200 m |
| Other data | |
| Operating temperature: | -15 to + 50 °C |
| Operating position: | any |
| Mounting: | free at lead-in wires |
| Protection: | IP30 |
| Overvoltage category: | III. |
| Contamination degree: | 2 |
| Connecting conductor cross-section (mm ²): | 0.2 - 1.5 mm ² solid / flexible |
| Dimensions: | 43 x 44 x 22 mm |
| Weight: | 45 g |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 |

- The switching unit for shutters has 2 output channels used to control garage doors, gates, blinds, awnings...
- They can be combined with Controllers or iNELS Wireless System Components.
- The BOX version offers mounting directly in the installation box, ceiling or motor drive cover.
- RFJA-32B-SL: connection of switched load 2x 8 A (2x 2000 W), with the possibility of connecting existing wire buttons.
- Short presses of the controller allow tilting of the slats, long pressing of the raise / lower moves the blinds to the end position.
- Each component can be controlled by up to 25 channels (1 channel represents one assigned controller).
- The programming button on the device also serves as a manual output control.
- For components, the repeater function can be set via the RFAF / USB service device.
- Range up to 200 m (outdoors), in case of insufficient signal between the controller and the device, use the RFRP-20N signal repeater or components with the RFIO2 protocol that support this function.
- The contact material of the AgSnO₂.

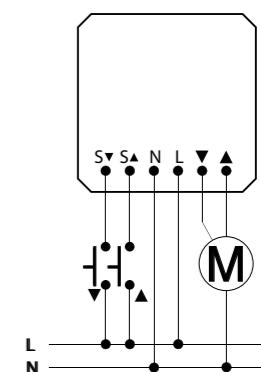
Device description



Function description

1. As long as the button on the remote control is pressed for < 2 s, the blinds move upwards (▲) or downwards (▼).
2. When the button is pressed for > 2 s, the blinds move upwards (▲) or downwards (▼) to the end position.

Connection



INTEGRATED
ANTENNA

EAN code:
RFSA-61MI: 8595188181549
RFSA-61M: 8595188137003

| Technical parameters | RFSA-61MI/230V | RFSA-61M/230V |
|----------------------|----------------|---------------|
|----------------------|----------------|---------------|

| | | |
|---------------------------|---------------------------|--|
| Supply voltage: | 110–230 V AC | |
| Supply voltage frequency: | 50–60 Hz | |
| Apparent input: | 2.7 VA $\cos \varphi=0.6$ | |
| Dissipated power: | 1.62 W | |
| Supply voltage tolerance: | +10%/-25 % | |

| Output | | |
|--------------------------------|-----------------------|--|
| Number of contacts: | 1x changeover | |
| Rated current: | 16 A/AC1 | |
| Switching power: | 4000 VA/AC1, 384 W/DC | |
| Peak current: | 30 A/<3 s | |
| Switching voltage: | 250 V AC1/24 V DC | |
| Contact material: | AgSnO ₂ | |
| Mechanical service life: | 3x10 ⁷ | |
| Electrical service life (AC1): | 0.7x10 ⁵ | |

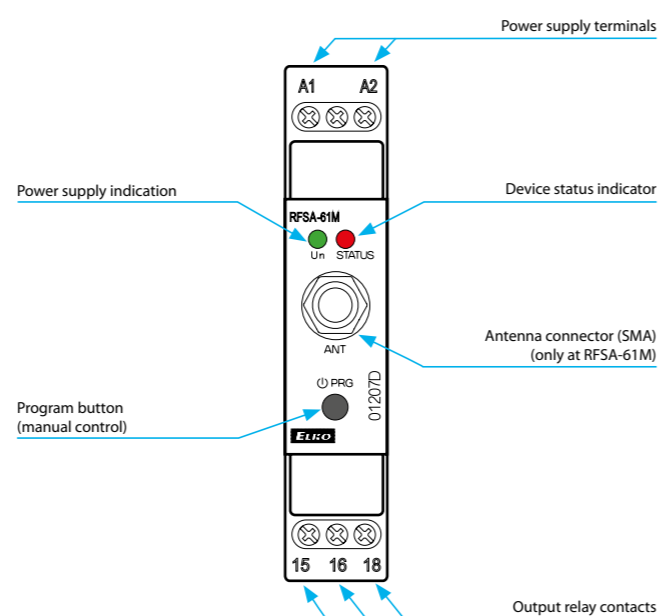
| Control | | |
|-------------------------|--|------------|
| Wireless: | up to 25-channels (buttons) | |
| Communication protocol: | RFIO2 | |
| Frequency: | 866–922 MHz (for more information see p. 85) | |
| Repeater function: | yes | |
| Manual control: | PROG (ON/OFF) button | |
| Range: | in open space up to 200 m | |
| Wireless Antenna: | integrated | external * |

| Other data | | |
|--|--|------|
| Operating temperature: | -15 °C to +50 °C | |
| Operating position: | any | |
| Mounting: | DIN rail EN 60715 | |
| Protection: | IP20 from the front panel | |
| Overvoltage category: | III. | |
| Contamination degree: | 2 | |
| Connecting conductor cross-section (mm ²): | max. 1x 2.5, max. 2x 1.5/ with a hollow max. 1x 2.5 | |
| Dimensions: | 90 x 17.6 x 64 mm | |
| Weight: | 69 g | 75 g |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 | |

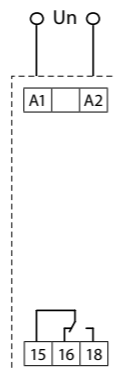
* AN-I antenna (with SMA connector) is part of packaging.
Other antennas with cable are available on the p. 76.
Max tightening torque for antenna's connector is 0.56 Nm.

- **RFSA-61M:** the switching unit with 1 output channel 16 A is used for controlling appliances, sockets or lights.
 - the 1-MODULE design of the unit into a switchboard.
 - the switching unit may be controlled by up to 25-channels.
 - the package includes an internal antenna AN-I, in case of locating the element in a metal switchboard, you can use the external antenna AN-E for better signal reception, see accessories on p. 75.
- **RFSA-61MI:** same design and function as RFSA-61M, but with integrated antenna. It is suitable for placement in cabinets with plastic doors.
- 6 function: button, impulse relay and time function of delayed start or return with time setting range of 2 s – 60 min. Function description can be found on p. 76.
- The programming button on the unit is also used for manual control of the output.
- Memory status can be pre-set in the event of a power failure.

Device description



Connection

INTEGRATED
ANTENNA

EAN code:
RFSA-66MI/230V: 8595188181556
RFSA-66MI/24V: 8595188181563
RFSA-66M/230V: 8595188137003
RFSA-66M/24V: 8595188152914

| Technical parameters | RFSA-66MI/230V | RFSA-66MI/24V | RFSA-66M/230V | RFSA-66M/24V |
|----------------------|----------------|---------------|---------------|--------------|
|----------------------|----------------|---------------|---------------|--------------|

| | | | | |
|---------------------------|-------------------------|---------------|-------------------------|---------------|
| Supply voltage: | 110–230 V AC | 12–24 V AC/DC | 110–230 V AC | 12–24 V AC/DC |
| SELV: | no | yes | no | yes |
| Supply voltage frequency: | AC 50–60 Hz | | | |
| Apparent input: | min. 2 VA/ max. 5 VA | - | min. 2 VA/ max. 5 VA | - |
| Dissipated power: | min. 0.5W/ max. 2.5W | max. 1.8 W | min. 0.5W/ max. 2.5W | max. 1.8 W |
| Supply voltage tolerance: | +10%/-15 % | | | |

| Output | |
|--------------------------------|--------------------|
| Number of contacts: | 3x ECO, 3x NO |
| Rated current: | 8 A/AC1 |
| Switching power: | 2000 VA/AC1 |
| Peak current: | 10 A/<3 s |
| Switching voltage: | 250 V AC1 |
| Contact material: | AgSnO ₂ |
| Mechanical service life: | 1x10 ⁷ |
| Electrical service life (AC1): | 1x10 ⁵ |

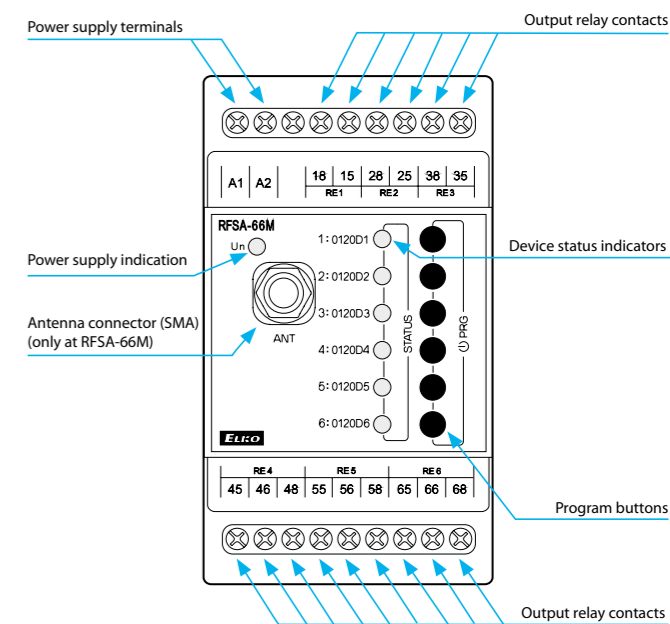
| Control | |
|-------------------------|--|
| Wireless: | up to 25-channels (buttons) |
| Communication protocol: | RFIO2 |
| Frequency: | 866–922 MHz (for more information see p. 85) |
| Repeater function: | yes |
| Manual control: | PROG (ON/OFF) button |
| Range: | in open space up to 200 m |
| Wireless Antenna: | integrated external * |

| Other data | |
|--|--|
| Operating temperature: | -15 °C to +50 °C |
| Operating position: | any |
| Mounting: | DIN rail EN 60715 |
| Protection: | IP20 from the front panel |
| Overvoltage category: | III. |
| Contamination degree: | 2 |
| Connecting conductor cross-section (mm ²): | max. 1x 2.5, max. 2x 1.5/ with a hollow max. 1x 2.5 |
| Dimensions: | 90 x 52 x 65 mm |
| Weight: | 171 g 179 g |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 |

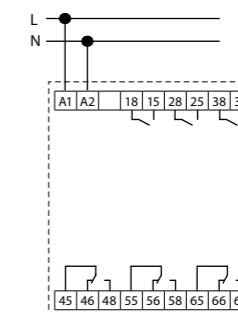
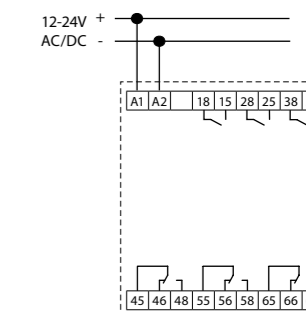
* AN-I antenna (with SMA connector) is part of packaging.
Other antennas with cable are available on the p. 85.
Max tightening torque for antenna's connector is 0.56 Nm.

- **RFSA-66M:** the switching unit with 6 output channels 8 A is used for independent control of up to 6 appliances, sockets or lights.
 - the 3-MODULE design of the unit into a switchboard.
 - each of the channels may be controlled by up to 25-channels.
 - the package includes an internal antenna AN-I, in case of locating the element in a metal switchboard, you can use the external antenna AN-E for better signal reception, see accessories on p. 76.
- **RFSA-66MI:** same design and function as RFSA-66M, but with integrated antenna. It is suitable for placement in cabinets with plastic doors.
- 6 function: button, impulse relay and time function of delayed start or return with time setting range of 2 s – 60 min. Function description can be found on p. 86.
- The programming button on the unit is also used for manual control of the output.
- Memory status can be pre-set in the event of a power failure.

Device description



Connection

RFSA-66MI/230V
RFSA-66M/230VRFSA-66MI/24V
RFSA-66M/24V

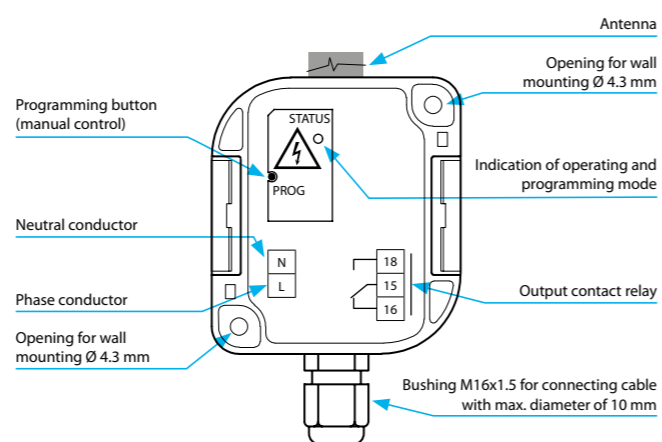


EAN code:
RFUS-61/230V: 8595188145268
RFUS-61/120V: 8595188152570

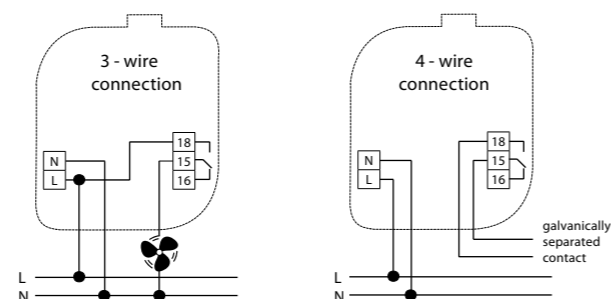
| Technical parameters | | RFUS-61/230V |
|---|--|--|
| Supply voltage: | | 230 V AC |
| Supply voltage frequency: | | 50–60 Hz |
| Apparent power: | | 5 VA/cos φ= 0.1 |
| Dissipated power: | | 0.6 W |
| Supply voltage tolerance: | | +10 %; -15 % |
| Output | | |
| Rated current: | | 1x switching (AgSnO ₂) |
| Number of contacts: | | 12 A/AC1 |
| Switching power: | | 3000 VA/AC1, 384 W/DC |
| Peak current: | | 30 A / <3 s |
| Switching voltage: | | 250 V AC1/24 V DC |
| Min. switching power DC: | | 500 mW |
| Mechanical service life: | | 3x10 ⁷ |
| Electrical service life (AC1): | | 0.7x10 ⁵ |
| Control | | |
| Wireless: | | up to 25-channels (buttons) |
| Communication protocol: | | RFIO2 |
| Frequency: | | 866–922 MHz (for more information see p. 85) |
| Repeater function: | | yes |
| Manual control: | | PROG (ON/OFF) button |
| Range: | | in open space up to 200 m |
| Other data | | |
| Operating temperature: | | -15 to +50 °C |
| Operating position: | | any |
| Mounting: | | screws |
| Protection: | | IP65 |
| Overvoltage category: | | III. |
| Contamination degree: | | 2 |
| Cross-section of connecting wires (mm ²): | | max. 1x 2.5, max. 2x 1.5/ with a hollow max. 1x 2.5 |
| Recommended power cord: | | CYKY 3x1.5 (CYKY 4x1.5) |
| Dimensions: | | 136 x 62 x 34 mm |
| Weight: | | 146 g |
| Related standards: | | EN 60730, EN 63044, EN 300 220, EN 301 489 |

- The switching unit with 1x 12 A output channel is used for controlling appliances, sockets or lights.
- They can be combined with detectors, controllers, iNELS Wireless or system components.
- Multi-function design – button, impulse relay and time function of delayed ON or OFF with time setting of 2 s – 60 min. Function description can be found on p. 86.
- The switching unit may be controlled by up to 25-channels.
- The programming button on the unit is also used for manual control of the output.
- Range up to 200 m (in open space), if the signal is insufficient between the controller and unit, use the signal repeater RFRP20 or protocol component RFIO2 that support this feature.
- Communication frequency with bidirectional protocol RFIO2.

Device description



Connection



EAN code:
RFSC-61N/Schuko: 8595188182508 RFSC-61N/British: 8595188182522
RFSC-61N/French: 8595188182515

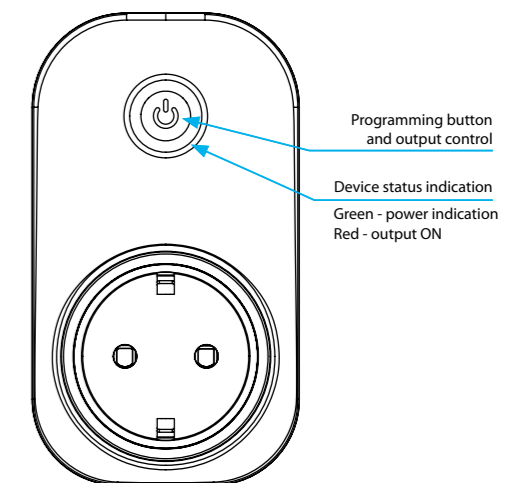
| Technical parameters | | RFSC-61N/230V |
|--------------------------------|--|--|
| Supply voltage: | | 230 V AC |
| Supply voltage frequency: | | 50-60 Hz |
| Apparent power: | | 7 VA / cos φ = 0.1 |
| Dissipated power: | | 0.7 W |
| Supply voltage tolerance: | | +10 %; -15 % |
| Output | | |
| Number of contacts: | | 1x switching |
| Rated current: | | 16 A / AC1 |
| Switching power: | | 4000 VA / AC1 |
| Peak current: | | 30 A / <3 s |
| Switching voltage: | | 250 V AC1 |
| Min. switching power DC: | | 500 mW |
| Mechanical service life: | | 10x10 ⁶ |
| Electrical service life (AC1): | | 0.7x10 ⁵ |
| Control | | |
| Wireless: | | up to 32-channels (buttons) |
| Communication protocol: | | RFIO2 |
| Frequency: | | 866–922 MHz (for more information see p. 85) |
| Repeater function: | | no |
| Manual control: | | button PROG (ON/OFF) |
| Range: | | in open space up to 200 m |
| Other data | | |
| Operating temperature: | | -15 to +50 °C |
| Working position: | | any |
| Mounting: | | plug into a socket |
| Protection: | | IP30 |
| Overvoltage category: | | III. |
| Contamination degree: | | 2 |
| Dimensions: | | 63 x 110 x 74 mm |
| Weight: | | 129 g |
| Related standards: | | EN 60730, EN 63044, EN 300 220, EN 301 489 |

- The switched socket is used to control fans, lamps, direct heaters and appliances, which are connected by a power cord with a plug up to 16 A.
- They can be combined with detectors, controllers or iNELS Wireless system components.
- Multifunctional design - button, impulse relay and time functions of delayed start or return with time setting 2 s - 60 min. (see p. 86)
- The switched socket can be controlled by up to 32 channels.
- The programming button on the socket also serves as a manual output control with indication.
- Possibility to set the output status memory in case of failure and subsequent power recovery.
- Range up to 200 m (outdoors) (in case of insufficient signal between the controller and the device, use the RFRP-20N signal repeater) or components with the RFIO2 protocol that support this function.
- Thanks to the socket design, installation is simple and straightforward by plugging it into an existing socket.
- The contact material of the AgSnO₂ relay enables switching of light ballasts.

Produced in 3 designs of sockets/plugs:



Device description



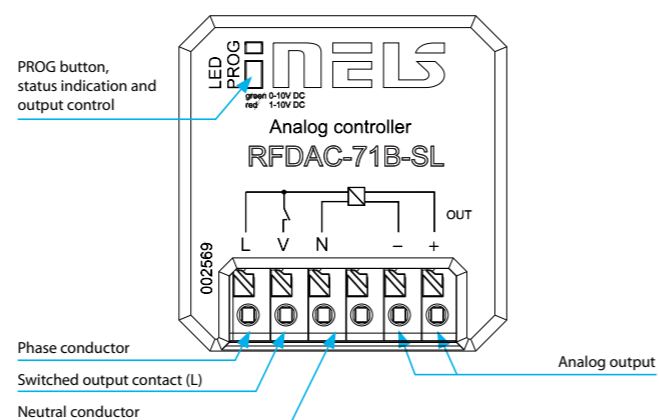


EAN code:
RFDAC-71B: 8595188182676

| Technical parameters | RFDAC-71B |
|--|--|
| Supply voltage: | 110–230 V AC |
| Supply voltage frequency: | 50–60 Hz |
| Apparent input: | 7 VA / $\cos \varphi = 0.1$ |
| Dissipated power: | 0.7 W |
| Supply voltage tolerance: | +10/-15 % |
| Control | |
| Potential-free analog output/max. current: | 0(1)–10 V/10 mA |
| Rated current: | 1x AgSnO ₂ switches the phase conductor |
| Rated current: | 8 A/AC1 |
| Switching power: | 2 000 VA/AC1 |
| Switching voltage: | 250 V AC1 |
| Mechanical service life: | 3x10 ⁷ |
| Electrical service life: | 1x10 ⁵ |
| Indication: | red LED/green LED |
| Output selection: | 0(1)–10V/PROG button |
| Control | |
| Wireless: | up to 25-channels (buttons) |
| Communication protocol: | RFIO2 |
| Frequency: | 866–922 MHz (for more information see p. 85) |
| Repeater function: | yes |
| Manual control: | button PROG (ON/OFF) |
| Range: | in open space up to 200 m |
| Minimal control distance: | 20 mm |
| Other data | |
| Operating temperature: | -15 to + 50 °C |
| Operating position: | any |
| Mounting: | plug into a socket |
| Protection: | IP40 |
| Overvoltage category: | III. |
| Contamination degree: | 2 |
| Terminals (CY wire, cross-section): | 3 x 0.75 mm ² , 2 x 2.5 mm ² |
| Dimensions: | 49 x 49 x 21 mm |
| Weight: | 43 g |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 |

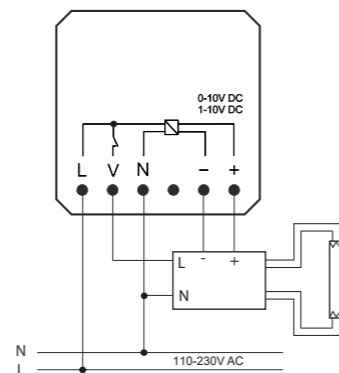
- The device with analog output 0(1)–10 V is used to control devices, luminaires, thermal actuators and thermal heads – which are equipped with such an input.
- They can be combined with detectors, controllers, iNELS Wireless or system components.
- Potential free analog output 0(1)–10 V, contact relay 8 A.
- 7 light functions – smooth increase or decrease with time setting 2 s–30 min. Function description can be found on p. 86.
- The analog controller may be controlled by up to 25-channels.
- The programming button on the controller is also used for manual control of the output.
- Memory status can be pre-set in the event of a power failure.
- Range up to 200 m (in open space), if the signal is insufficient between the controller and unit, use the signal repeater RFRP-20N or protocol component RFIO2 that support this feature.
- The BOX design lets you mount it right in an installation box, a ceiling or light cover.

Device description

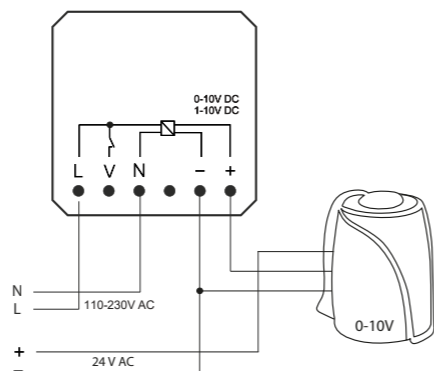


Connection

Connection example: dimming of fluorescent tubes with dimmable ballast



Connection example: with thermo valve

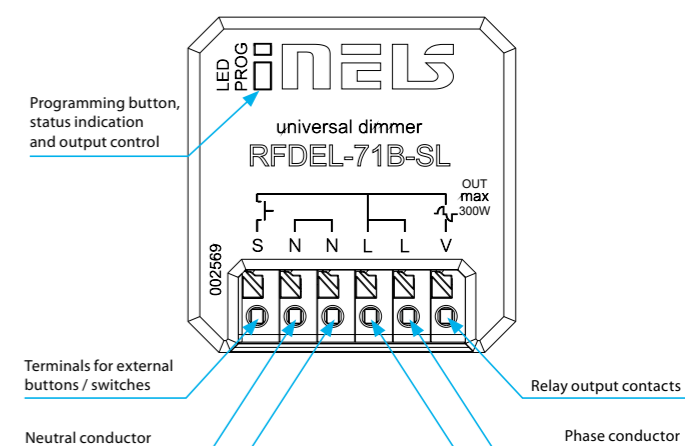


EAN code:
RFDEL-71B-SL: 8595188183611

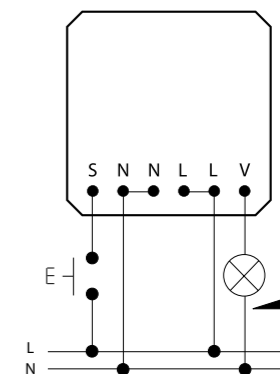
| Technical parameters | RFDEL-71B-SL/230V |
|---------------------------|--|
| Supply voltage: | 230 V AC / 50 Hz |
| Supply voltage frequency: | 50-60 Hz |
| Apparent power: | 5 VA / $\cos \varphi = 0.1$ |
| Dissipated power: | 0.5 W |
| Supply voltage tolerance: | +10/-15 % |
| Connection: | 4-wire, with "NEUTRAL" |
| Output | |
| Dimmed load: | R, L, C, LED, ESL |
| Contactless: | 2 x MOSFET |
| Load capacity:* | max. 300 W* |
| Control | |
| Wireless: | up to 25-channels (buttons) |
| Communication protocol: | RFIO2 |
| Frequency: | 866-922 MHz (for more information see p. 85) |
| Repeater function: | yes |
| Range: | up to 200 m |
| Manual control: | tlačítko PROG (ON/OFF) |
| External button / switch: | yes |
| Other data | |
| Operating temperature: | -15 to + 45 °C |
| Working position: | any |
| Mounting: | free at lead-in wires |
| Protection: | IP40 |
| Overvoltage category: | III. |
| Contamination degree: | 2 |
| Connection: | screwless terminals |
| Connecting conductor: | 0.2-1.5 mm ² solid/flexible |
| Dimensions: | 43 x 44 x 22 mm |
| Weight: | 30 g |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 |

- Universal built-in dimmer is used to regulate light sources:
 - R – classic light bulbs,
 - L – halogen bulbs with wound transformer,
 - C – halogen bulbs with electronic transformer,
 - ESL – dimmable energy saving lamps,
 - LED – LED light sources (230 V).
- They can be combined with Detectors, Controllers or iNELS Wireless System Elements.
- 7 light functions - smooth start or stop with time setting 2 s-30 min., function description p. 86.
- Min. brightness eliminates flickering LED and ESL light sources.
- The universal dimmer can be controlled by up to 25 channels
- Control input "S" for connecting an existing wired button.
- The programming button on the device also serves as a manual output control.
- Possibility to set memory status in case of power failure.
- The repeater function of the components can be set via the RFAF / USB service device.
- Range up to 200 m (outdoors), in case of insufficient signal between the controller and the component, use the RFRP-20N signal repeater or components with the RFIO2 protocol that support this function.
- The BOX version offers mounting directly in the installation box, ceiling or luminaire cover.

Device description

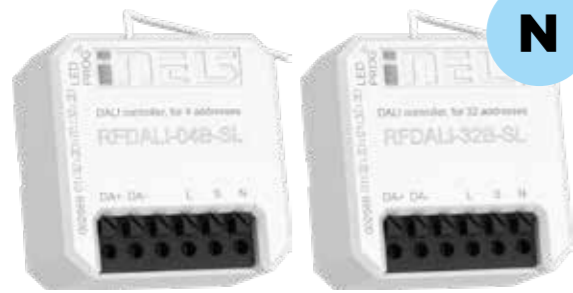


Connection



Types of connectable loads

| | | | | |
|----------------|----------------|-----------------|--------------|---------------|
| | | | | |
| R resistive | L inductive | C capacitive | LED light | ESL saving |



N

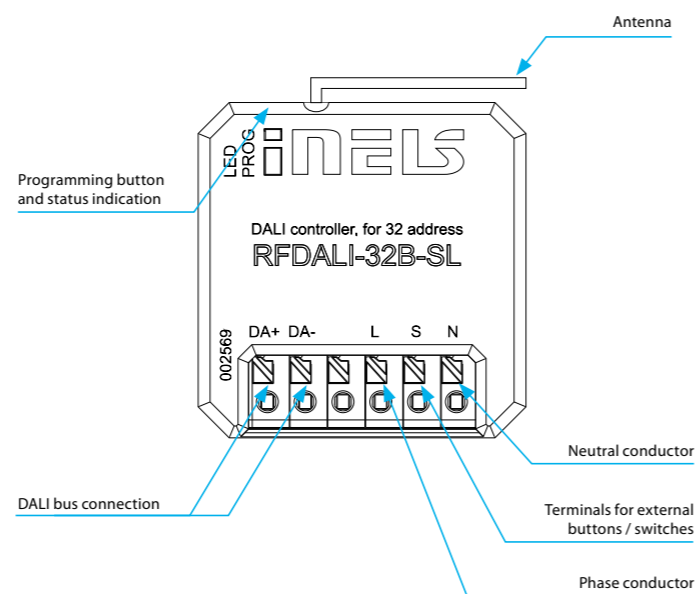
EAN code:
RFDALI-04B-SL: 8595188185271

RFDALI-32B-SL: 8595188184342

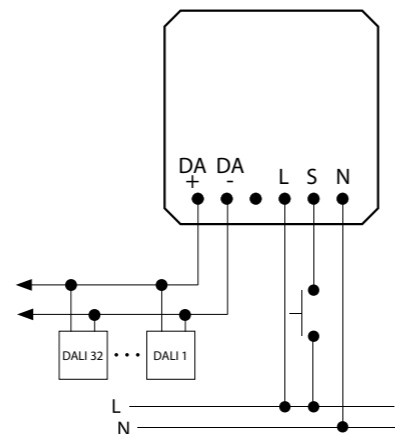
| Technical parameters | RFDALI-04B-SL RFDALI-32B-SL | |
|---------------------------|--|---------|
| Supply voltage: | 100-230 V AC / 50 Hz | |
| Supply voltage frequency: | 50/60 Hz | |
| Apparent power: | 5 VA / $\cos \varphi = 0.1$ | |
| Dissipated power: | 3 W | |
| Supply voltage tolerance: | +10/-15 % | |
| Connection: | 4-wire, L, N, DA+, DA- | |
| Output DALI | | |
| Number of devices: | max. 4 | max. 32 |
| Power supply: | 16V/100 mA | |
| Control | | |
| Wireless: | 32-channels | |
| Communication protocol: | iNELS Wireless | |
| Frequency: | 866-922 MHz (for more information see p. 85) | |
| Repeater function: | yes | |
| Range: | up to 200 m | |
| Manual control: | button PROG (ON/OFF) | |
| External button / switch: | yes | |
| Configuration | | |
| Interface | WiFi AP 2.4 GHz, webserver | |
| Application | Internet browser | |
| Other data | | |
| Operating temperature: | -15 to +50 °C | |
| Working position: | any | |
| Mounting: | free at lead-in wires | |
| Protection: | IP40 | |
| Overvoltage category: | III. | |
| Contamination degree: | 2 | |
| Connection: | screwless terminals | |
| Connecting conductor: | 0.2-1.5 mm ² solid/flexible | |
| Dimensions: | 43 x 44 x 22 mm | |
| Weight: | 52g | |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489, EN 300 328 | |

- The DALI controllers RFDALI-04B-SL and RFDALI-32B-SL are designed to control devices with a DALI interface, such as dimmers, electronic ballasts, LED converters and more.
- The control is performed by components from the iNELS Wireless system, detectors, controllers or system devices.
- Assignment and configuration of DALI devices is performed via webserver.
- The DALI bus is powered by the DALI controller.
- Control input "S" for connecting and controlling external buttons.
- The PROG button on the transmitter also serves as a manual output control.
- Possibility to set memory status in case of power failure.
- The repeater function of the components can be set via webserver.
- Range up to 200 m (outdoors), in case of insufficient signal between the controller and the device, use the RFRP-20N signal repeater or components with the RFIO2 protocol that support this function.
- The BOX version offers mounting directly in the installation box, ceiling or luminaire cover, screwless terminals for connection.

Device description



Connection



EAN code:
RFDEL-71M: 8595188148979

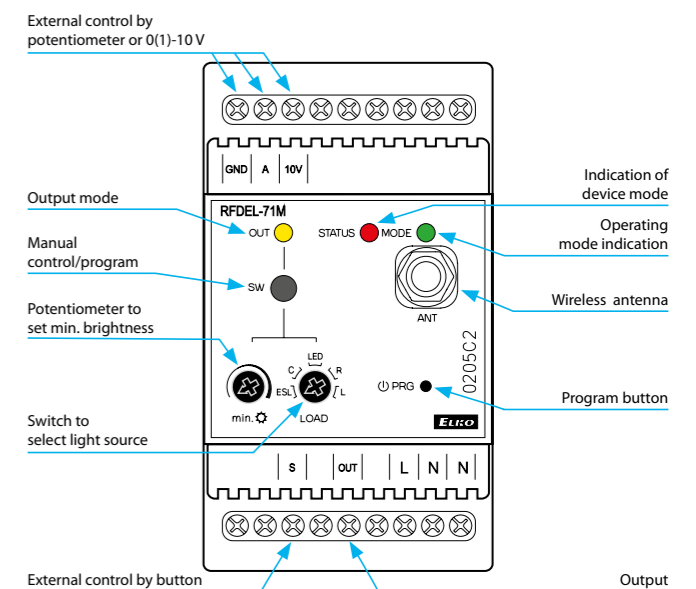
| Technical parameters | RFDEL-71M/230V | RFDEL-71M/120V |
|------------------------------------|--|----------------|
| Supply voltage: | 230 V AC | 120 V AC |
| Supply voltage frequency: | 50 Hz | 60 Hz |
| Apparent power: | 2.5 VA | 1.1 VA |
| Dissipated power: | 0.8 W | 0.6 W |
| Supply voltage tolerance: | +10/-15 % | |
| Output | | |
| Dimmed load: | R, L, C, LED, ESL | |
| Contactless: | 2 x MOSFET | |
| Load capacity*: | max. 600 W | max. 300 W* |
| Control | | |
| Wireless: | up to 32 channels (buttons) | |
| Communication protocol: | RFIO2 | |
| Frequency: | 866-922 MHz (for more information see p. 85) | |
| Repeater function: | yes | |
| Range: | in open space up to 160 m | |
| Manual control: | SW (ON/OFF) button | |
| External button: | max. 50 m cable | |
| Glow lamps connection: | no | |
| Analog control: | potentiometer or 0(1)-10 V | |
| Wireless Antenna: | AN-I included (SMA connector**) | |
| Other data | | |
| Operating temperature: | -20 to +35 °C | |
| Storage temperature: | -30 to +70 °C | |
| Operating position: | vertical | |
| Mounting: | DIN rail EN 60715 | |
| Protection: | IP20 under normal conditions | |
| Overvoltage category: | II. | |
| Contamination degree: | 2 | |
| Cross-section of connecting wires: | max. 1x 2.5, max. 2x 1.5/with a hollow max. 1x 2.5 | |
| Dimensions: | 90 x 52 x 65 mm | |
| Weight: | 125 g | |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 | |

* See page 83 for the load chart for each light source.

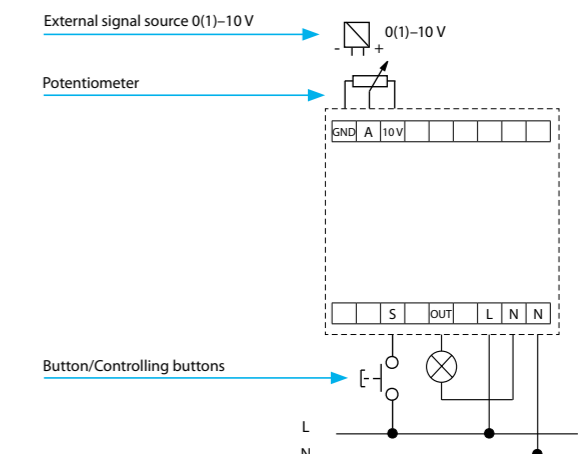
** Max. Tightening Torque for antenna connector is 0.56 Nm.

- The universal modular dimmer is used to regulate light sources:
 - R – classic lamps (resistive load)
 - L – halogen lamps with wound transformer (inductive load)
 - C – halogen lamps with electronic transformer (capacity load)
 - ESL – dimmable energy-efficient fluorescent lamps
 - LED – LED light sources equipped with LED.
- Control can be performed by:
 - detectors, Controllers and System units iNELS Wireless
 - by control signal 0(1)-10 V
 - potentiometer
 - existing button in the installation.
- 6 light functions – smooth increase or decrease with time setting 2 s-30 min. Function description can be found on p. 86.
- Thanks to setting the min. brightness by potentiometer, you will eliminate flashing of the LED and ESL light sources.
- The universal dimmer may be controlled by up to 32-channels.
- The programming button on the controller is also used for manual control of the output.
- The package includes an internal antenna AN-I, in case of locating the unit in a metal switchboard, you can use the external antenna AN-E for better signal reception, see accessories on p. 76.
- Memory status can be pre-set in the event of a power failure.
- Range up to 160 m (in open space), if the signal is insufficient between the controller and unit, use the signal repeater RFRP-20N or protocol component RFIO2 that support this feature.
- The unit's 3-MODULE design with switchboard mounting.

Device description



Connection and external control options





EAN code:

RFDEL-76M/230V: 8595188182058

RFDEL-76M/120V: 8595188182096

Technical parameters RFDEL-76M/230V RFDEL-76M/120V

| | | |
|---------------------------|--------------|----------|
| Supply voltage: | 230 V AC | 120 V AC |
| Supply voltage frequency: | 50 Hz | 60 Hz |
| Power supply indication: | green LED Un | |
| Supply voltage tolerance: | +10/-15 % | |

Output

| | | |
|--|---|-------------|
| Output: | 12x MOSFET transistor | |
| Load type*: | R - resistive, L - inductive, C - capacitive, ESL - economical, LED | |
| Minimum output power: | 10 VA | |
| Max. output power/channel: | 150 VA | 75 VA |
| Possible to connect outputs: | yes | |
| Maximum power when connecting all outputs: | max. 900 VA | max. 450 VA |
| Output protection: | thermal/short-term overload/longterm overload/short circuit | |

Output indication:

| | |
|--------------------|----------------|
| Output indication: | red LED STATUS |
|--------------------|----------------|

Control

| | |
|-------------------------|---|
| Input for buttons: | potential "L" or external voltage AC 20–230 V (50–60 Hz)/DC 20–230 V |
| Wireless: | up to 32-channels (with iNELS Wireless controllers) |
| Communication protocol: | RFIO2 |
| Function repeater: | yes |
| Range: | in the open up to 160 m (524.11 ft) |
| Wireless antenna: | AN-I included (SMA connector) |

Other information

| | |
|------------------------|---|
| Operating temperature: | -20 to +50 °C (-4 to 122 °F) |
| Storage temperature: | -30 to +70 °C (-22 to 158 °F) |
| Ingress protection: | IP20 under normal conditions |
| Overtoltage category: | II. |
| Contamination degree: | 2 |
| Connecting conductor: | max. 2.5 mm ² /1.5 mm ² with sleeve |
| Operating position: | vertical |
| Installation: | in the switchboard on DIN rail EN 60715 |
| Design: | 6-MODULE |
| Dimensions: | 90 x 105 x 65 mm (3.5" x 4.1" x 2.6") |
| Weight: | 320 g (11 oz.) |
| Related standards: | EN 60730, EN 63044, EN 301489, EN 300 220 |

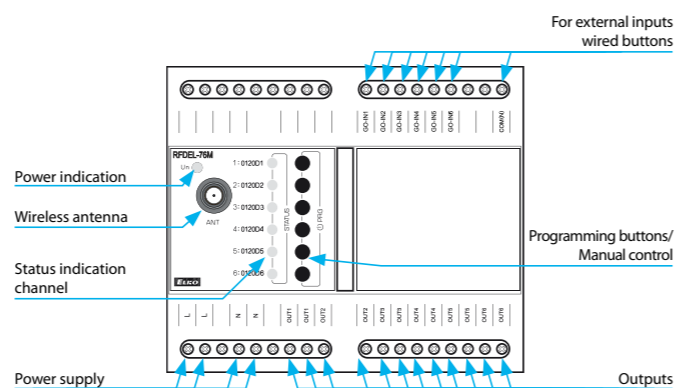
*Warning: it is not allowed to simultaneously connect loads of inductive and capacitive type in the same channel.

Types of connectable loads

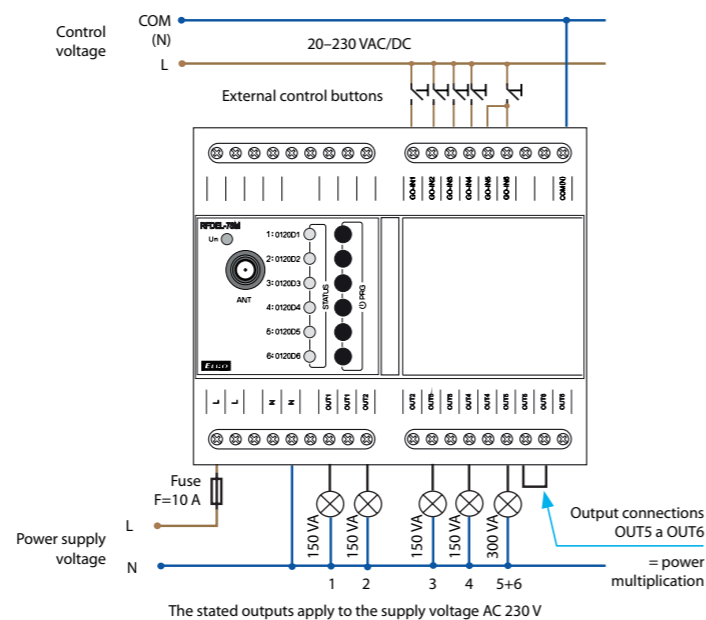
| | | | | |
|----------------|----------------|-----------------|--------------|---------------|
| | | | | |
| R resistive | L inductive | C capacitive | LED light | ESL saving |

- RFDEL-76M is a universal 6-channels actuator, which is used to control the brightness intensity of dimmable sources R - L - C - LED - ESL.
- The maximum possible load is 150 VA for 230 V and 75 VA for 120 V for each channel.
- The individual channels of the dimmer can be connected in parallel and thus increase the maximum output load at the expense of the number of outputs.
- Each of the output channels is individually controllable and addressable.
- By setting the min. brightness eliminates flickering of different types of light sources, setting min. brightness and type of load is done using the PROG buttons.
- Electronic overcurrent, thermal and short-circuit protection, which switches off the output.
- 6 galvanically isolated inputs for wired buttons, which can be used to control the outputs independently of the iNELS Wireless.
- The package includes an internal AN-I antenna, in case of placement of a sheet metal distribution element, you can use an external AN-E antenna to improve the signal.

Description



Connection



EAN code:

RFDA-73M/RGB: 8595188146814

Technical parameters RFDA-73M/RGB

| | |
|-----------------------------|-----------------------|
| Supply terminals: | Un+, GND |
| Supply voltage: | 12–24 V DC stabilized |
| Maximum power without load: | 0.8 W |

Output

| | |
|--------------|---|
| Dimmed load: | LED strip 12 V, 24 V with common anode RGB LED strips 12 V, 24 V with common anode |
|--------------|---|

| | |
|---------------------|--------|
| Number of channels: | 3 |
| Rated current: | 3x5 A |
| Peak current: | 3x10 A |
| Switching voltage: | Un |

Control

| | |
|--------------------------------|--|
| Wireless: | up to 32-channels (buttons) |
| Communication protocol: | RFIO2 |
| Frequency: | 866–922 MHz (for more information see p. 85) |
| Repeater function: | yes |
| Load capacity of output +10 V: | 10 mA |
| Ext. signal: | 0–10 V, 1–10 V |
| Range: | in open space up to 160 m |
| Wireless Antenna: | AN-I included (SMA connector*) |

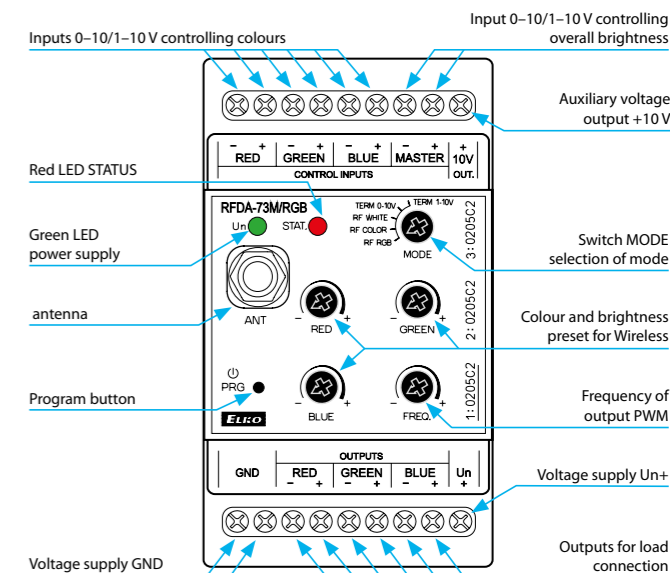
Other data

| | |
|---|--|
| Operating temperature: | -20 to +50 °C |
| Storage temperature: | -30 to +70 °C |
| Working position: | any |
| Mounting: | DIN rail EN 60715 |
| Protection: | IP20 from front panel |
| Contamination degree: | 2 |
| Cross-section of connecting wires (mm ²): | max. 1x 2.5, max. 2x 1.5/ with a hollow max. 1x 2.5 |
| Dimensions: | 90 x 52 x 65 mm |
| Weight: | 130 g |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 |

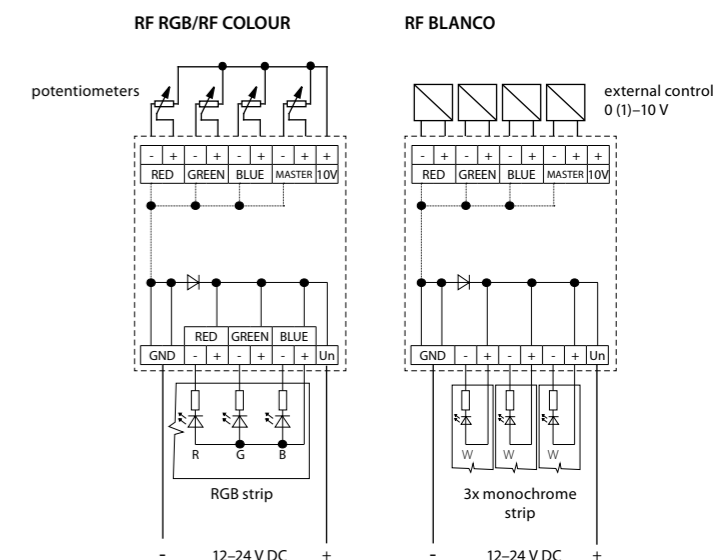
* Max Tightening Torque for antenna connector is 0.56 Nm.

- The dimmer for LED strips is used for independent control of 3 single-colour LED strips or one RGB LED strip.
- The expanded selection of control modes enables it to be combined with:
 - detectors, controllers and system units iNELS Wireless
 - device with output signal 0 (1)–10 V
 - potentiometer.
- The unit's 3-MODULE design with switchboard mounting enables connection of dimmed load 3x 5 A, which represents:
 - single-colour LED strip 7.2 W – 3x 8 m
 - RGB LED strip 14.2 W–10 m.
- 6 light functions – smooth increase or decrease with time setting 2 s – 30 min. Function description can be found on p. 86.
- The dimmer may be controlled by up to 32-channels.
- The power supply of the unit is in the range of 12–24 V DC, and is indicated by a green LED.
- The package includes an internal antenna AN-I, in case of locating the unit in a metal switchboard, you can use the external antenna AN-E for better signal reception, see accessories on p. 76.
- Memory status can be pre-set in the event of a power failure.
- Range up to 160 m (in open space), if the signal is insufficient between the controller and unit, use the signal repeater RFRP-20N or protocol component RFIO2 that support this feature.

Device description



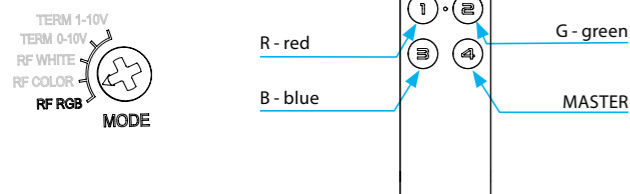
Output variations and external control options



Control modes

RF RGB

Switch settings in MODE:

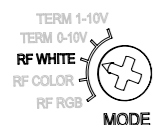


RF RGB mode for controlling RGB LED strips. In the RF RGB programming mode, colours are automatically assigned to individual transmitter buttons.

Note: The mode can be controlled by RF Touch, RF Pilot, RFWB-40/G, RF KEY, and eLAN-RF.

RF BLANCO

Switch settings in MODE:

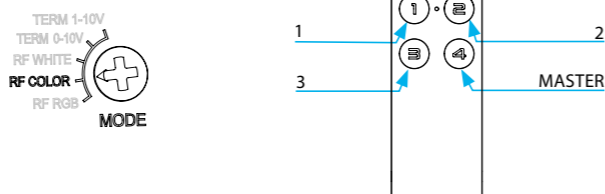


This works in a mode where it acts like three independent dimmers for 12-24 V. Each channel can be programmed independently of one another and has its own address.

Note: The mode can be controlled by RF Touch, RF Pilot, RFWB-20/G, RFWB-40/G, RF KEY and eLAN-RF.

RF Color

Switch settings in MODE:



RF COLOUR mode for controlling RGB LED strips, where you can choose the colour for individual transmitter buttons. A long press of the button starts the colour search mode. After releasing the button, the current colour is set for the given button.

Note: The mode can be controlled by RF Touch, RF Pilot, RFWB-40/G, RF KEY, and eLAN-RF.

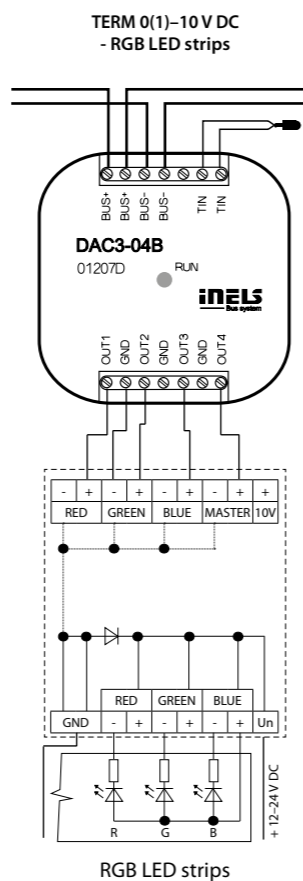
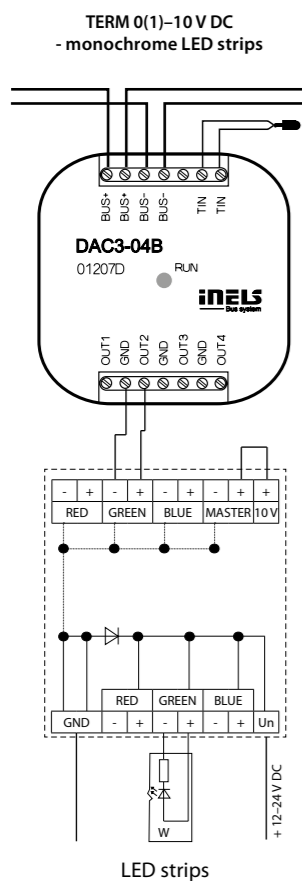
TERM 0-10 V and TERM 1-10 V

Switch settings in MODE:



Modes TERM 0-10 V and TERM 1-10 V. Inputs 0-10 V and 1-10 V used to control one RGB LED strip or three independent single-colour LED strips (see modes above) from the iNELS BUS System. For controlling, you can use the application iHC for smartphones and tablets.

Control options



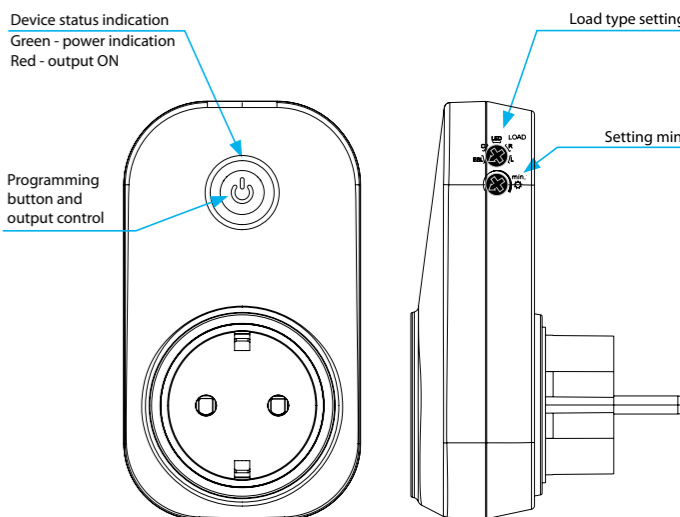
EAN code:
RFDSC-71N/Schuko: 8595188183604 RFDSC-71N/British: 8595188183581
RFDSC-71N/French: 8595188183598

| Technical parameters | RFDSC-71N/230V |
|---------------------------|--|
| Supply voltage: | 230 V |
| Supply voltage frequency: | 50-60 Hz |
| Apparent power: | 1.1 VA |
| Dissipated power: | 0.8 W |
| Supply voltage tolerance: | +10/-15 % |
| Output | |
| Contactless: | 2 x MOSFET |
| Load capacity*: | max. 200 W |
| Dimming load: | R, L, C, LED, ESL |
| Control | |
| Wireless: | up to 32-channels (buttons) |
| Communication protocol: | RFIO2 |
| Frequency: | 866-922 MHz (for more information see p. 85) |
| Repeater function: | no |
| Range: | in open space up to 160 m |
| Manual control: | button PROG (ON/OFF) |
| Other data | |
| Operating temperature: | -20 to +35 °C |
| Storage temperature: | -30 to +70 °C |
| Working position: | any |
| Mounting: | plug into a socket |
| Protection: | IP30 |
| Overvoltage category: | III. |
| Contamination degree: | 2 |
| Dimensions: | 63 x 110 x 74 mm |
| Weight: | 118 g |
| Related standards: | EN 60730, EN63044, EN 300 220, EN 301 489 |

- The dimmable socket is used to regulate the brightness of the luminaires, which are connected by a power cord with a plug:
 - R - classic light bulbs (resistive load)
 - L - halogen bulbs with wound transformer (inductive load)
 - C - halogen bulbs with electronic transformer (capacitive load)
 - ESL - dimmable energy saving lamps
 - LED - light sources equipped with LED
- Multifunction - 6 light functions - smooth start or stop with time setting 2 s - 30 min. Description of functions on p. 86.
- Min. brightness potentiometer eliminates flickering of LED and ESL light sources.
- The universal dimmer can be controlled by up to 32 channels.
- The programming button on the socket also serves as a manual output control.
- Possibility to set the output status memory in case of failure and subsequent power recovery.
- Range up to 160 m (outdoors), in case of insufficient signal between the controller and the device, use the RFRP-20N signal repeater or components with the RFIO2 protocol that support this function.

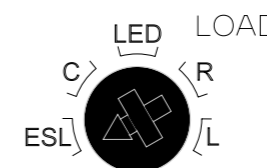


Device description



Types of loads

| | |
|-----|---|
| ESL | dimmable energy saving lamps |
| C | halogen bulbs with electronic transformer (capacitive load) |
| LED | LED light sources |
| R | classic light bulbs (resistive load) |
| L | halogen bulbs with wound transformer (inductive load) |

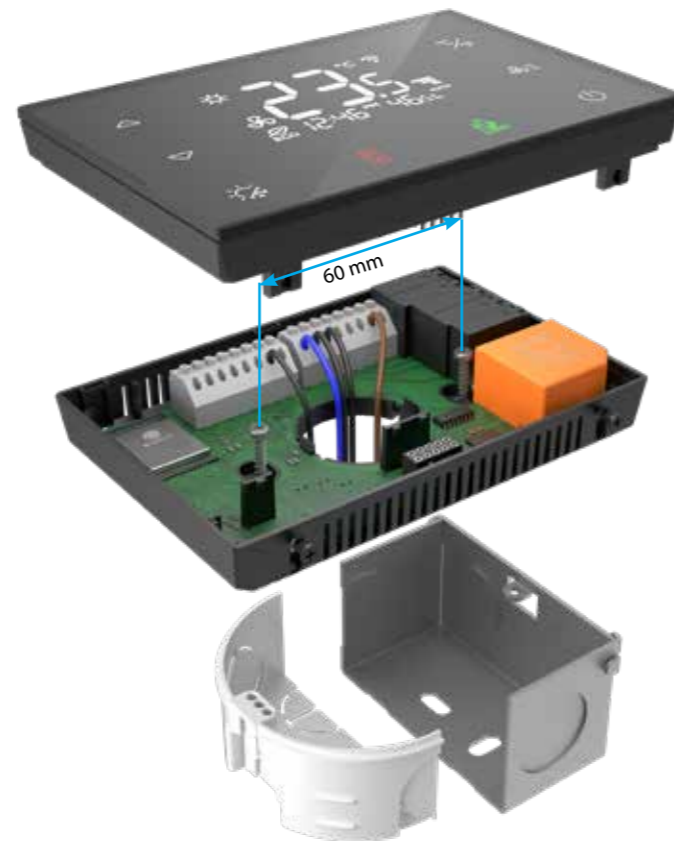




The picture of device is illustrative, the icons (symbols) are configurable by the customer.



- Designed to control 2 and 4 pipe fan coils, chillers
- 3x relays for fan speed (LOW, MEDIUM, High), 2x relays for heating/cooling mode
- 2x analog outputs 0-10V for proportional control of valves
- 2x inputs for connecting wired detectors (magnet doors/windows); of which 1 input can
- Built-in digital temperature and humidity sensor
- Proximity sensor to activate display backlight / buttons
- VA/TN LCD display, 8 touch backlit buttons
- Screwless angle clamps for easy wire connection
- WiFi for thermostat setup (via web browser) and connection to iNELS Cloud, iNELS APP and MRS via MQTT protocol
- Modbus RTU for external HVAC devices and higher-level systems
- Power supply: AC 110 – 230V AC
- Black or white finish
- Box for mounting on EU/BS installation boxes
- Possibility of custom tuning and design modifications (button functions, icon options, logos): icons.inels.co



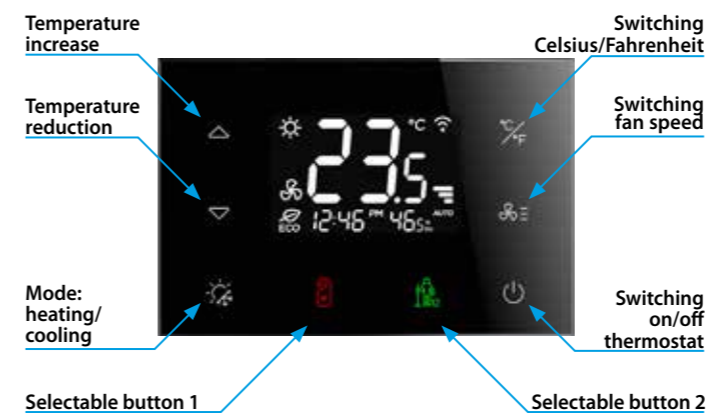
External temperature sensors:

| | TC-0 | TC-3 | TC-6 | TC-12 |
|-------------|--------------|--------------|--------------|--------------|
| Length: | 100 mm | 3 m | 6 m | 12 m |
| Order code: | 209970800010 | 209970800011 | 209970800012 | 209970800013 |

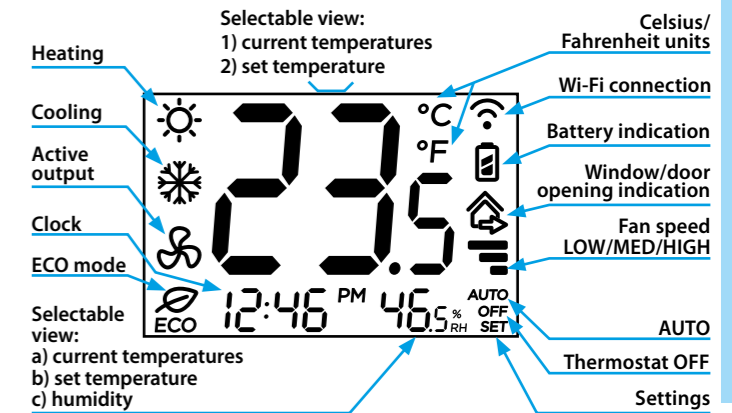


| Technical parameters | RFTC-3/W | RFTC-3/B |
|----------------------------|---|--------------------|
| Power supply | | |
| Power supply voltage: | 110 - 230V AC, 50-60Hz, L and N terminals | |
| Apparent/loss power input: | 4 VA/2 W | |
| Supply voltage tolerance: | ± 10% | |
| Outputs | | |
| Relays: | 5x switching / 5A / 250V AC1 / 1385VA | |
| Contact life: | mechanical: 10 mil. / electrical 100.000 switches | |
| Analog Output: | 2x 0-10V, 10 mA | |
| Inputs (external) | | |
| Binary: | ro potential-free contact, terminals IN1/IN2 against GND, maximum wire length 30m | |
| Temperature: | 1x for external temperature sensor TC/TZ, terminals IN1/T & IN2/TC, temperature range -20 to +120 °C, accuracy ± 0.5 °C | |
| Sensors (internal) | | |
| Temperature: | range 0 to +55 °C, accuracy ± 0.5 °C from the range | |
| Humidity: | 0 - 99% RH, accuracy ± 3 °C from the range | |
| Proximity: | backlight activation when zooming <25 cm | |
| Lighting: | adaptive backlight control of the display and buttons | |
| Communications | | |
| Radio: | iNELS RFIO2, frequency 866-922 Mhz | |
| WiFi: | AP 2.4 Ghz | |
| Modbus: | RTU 485 | |
| Control and display | | |
| Display: | LCD (VA/TN), active area 54x34mm | |
| Buttons: | 8x, capacitive, backlit | |
| Functions | | |
| Fancoil types: | 2-pipe, 4-pipe | |
| Parameter settings: | via WiFi and web interface | |
| Connection | | |
| Terminal block: | 16 pole, screwless (push-in) | |
| Wire cross section: | 0.2 - 1.5 mm² solid / flexible | |
| Mechanics | | |
| Operating temperature: | - 0 to 50 °C / max 80% RH | |
| Storage Temperature: | - 20 to 60 °C | |
| Enclosure: | IP30 (mounted) | |
| Overvoltage Category: | II. | |
| Pollution Degree: | 2 | |
| Working position: | horizontal | |
| Installation: | on EU or British box with 60 mm bolt spacing | |
| Dimension: | 120x80x27 mm | |
| Weight: | 219 g | |
| Shape: | sharp edges | |
| Color (glass and plastic): | White | Black |
| Order Code: | 8915 | 8914 |
| EAN Code: | 8595188189156 | 8595188189149 |
| Standard: | EN 60730 | EN 63044 EN 301489 |

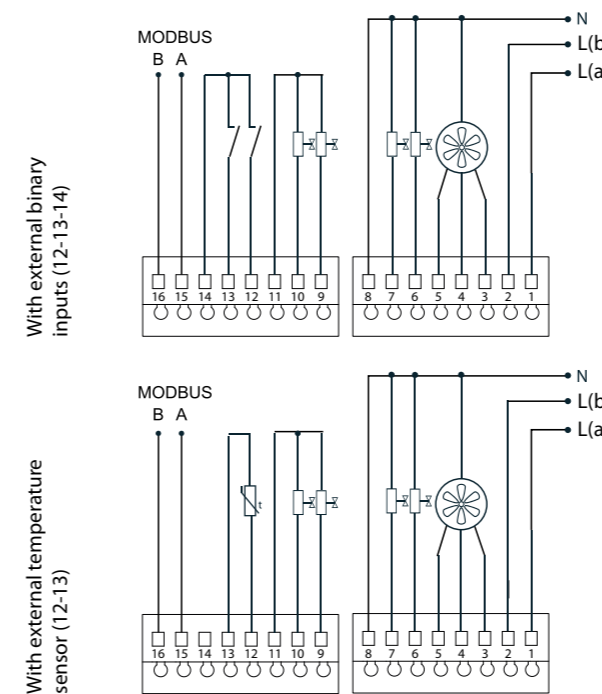
Buttons and display description



Display description



Connection



Clamp description

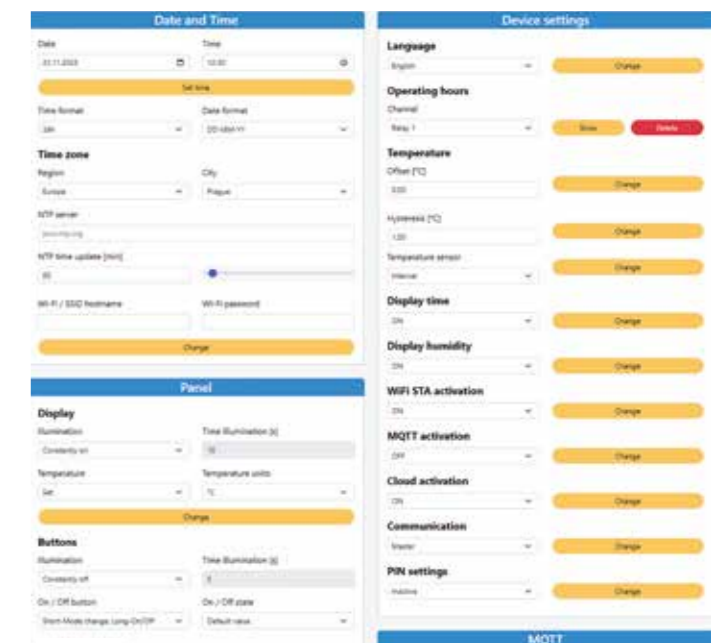
1. L(a) power supply phase wire
2. L(b) phase - identical to phase L(a) - see. *
3. HIGH fan top speed
4. MED fan medium speed
5. LOW fan lowest speed
6. HEAT valve 0/1 for heating
7. COOL valve 0/1 for cooling
8. N neutral wire power supply
9. 1:0-10V 1. analog output 0-10V
10. 2:0-10V 2. analog output 0-10V
11. GND common terminal for analog output
12. IN1 1. binary input for external contact
13. IN2 2. binary input for external contact
14. COM common terminal for binary inputs 1. and 2.
15. BUS A Modbus A
16. BUS B Modbus B

Option for an external temperature sensor TC/TZ

12. IN1 temperature input NTC
13. IN2 temperature input NTC

*in the case of an auxiliary heater, it is connected to terminals 6 or 7 (max. 1500 W).

Web configuration



Variants



RFTC-3/B
Order code: 8914

RFTC-3/W
Order code: 8915



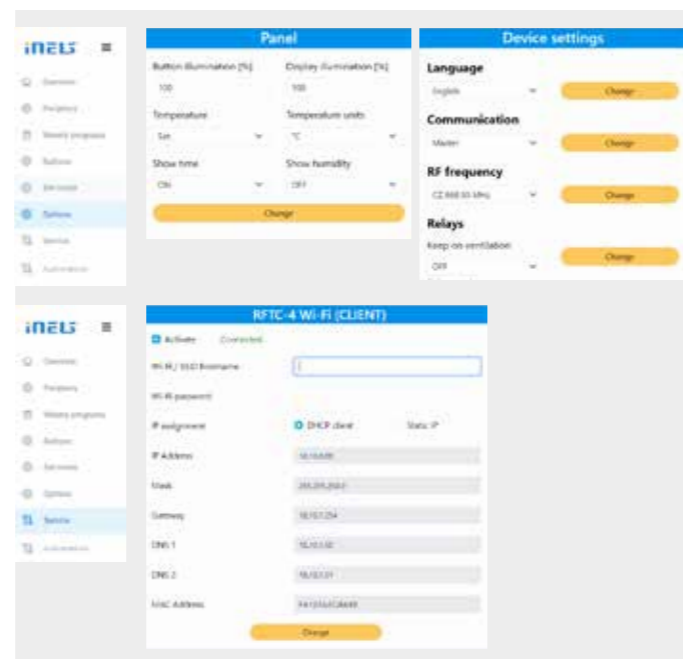
Icons are illustrative, the actual appearance is configurable using the configurator.



- Designed to control RFATV-2, RFSTI-11B, RFSA-266M
- Built-in digital temperature and humidity sensor
- VA/TN LCD display, 8 touch backlight buttons
- WiFi for parameter setting (via web browser) and for connection to iNELS.Cloud, iNELS APP only with external power supply
- iNELS RFIO2 for wireless communication with iNELS Wireless units
- Power supply: 2x AA 1.5 V or USB-C 5 V
- Black or white glass design
- Box for mounting on EU/BS installation boxes with 60 mm screw spacing
- 6 thermostat buttons, 2 buttons options for control switch units, dimmers or switch units for blinds from iNELS Wireless portfolio
- Possibility of custom tuning and design modifications (button functions, icon options, logos): icons.inels.com

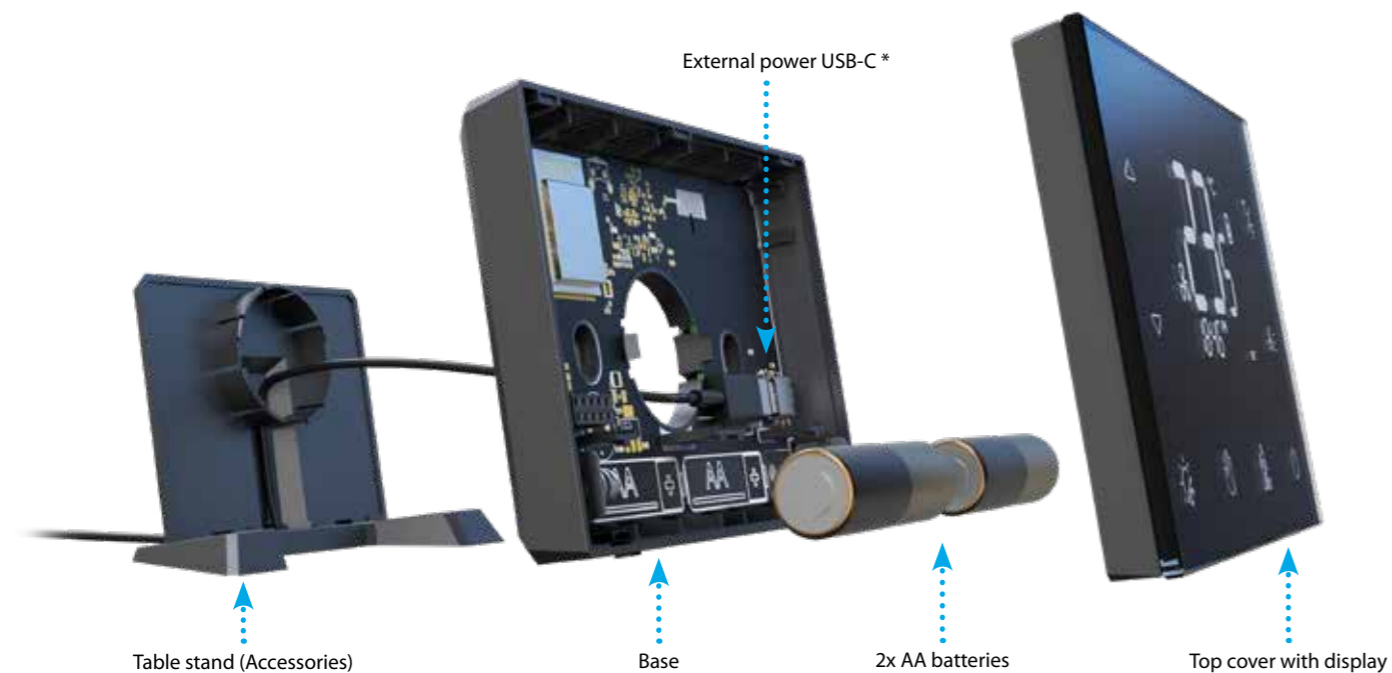
Web configuration

An external USB-C power supply must be connected for initial setup. After that, configuration can be done via own Wifi and web interface. Wi-Fi SSID: RFTC-4_product number IP address: 192.168.1.1

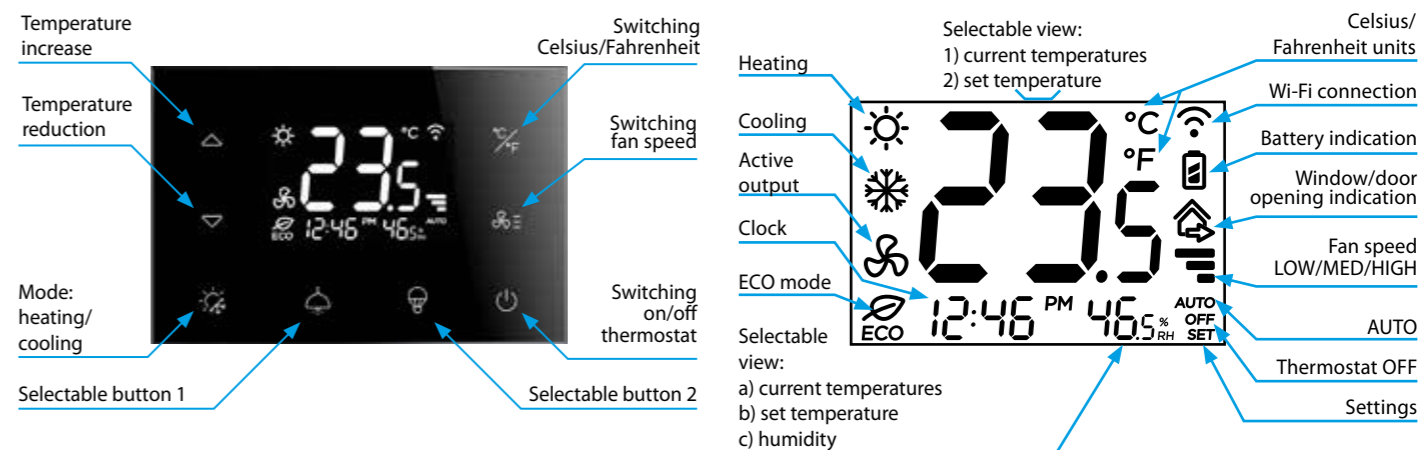


Icons are illustrative - configure your own look using the configurator: icons.inels.com

| Technical parameters | RFTC-4/W | RFTC-4/B |
|----------------------------|--|---------------|
| Power supply | | |
| Power supply voltage: | 2x AA 1.5 V or USB-C 5 V | |
| Sensors (internal) | | |
| Temperature: | range 0 to +55 °C, accuracy ± 0.5 °C from the range | |
| Humidity: | 0 - 99% RH, accuracy ± 3% from the range | |
| Communications | | |
| Radio: | iNELS RFIO2, frequency 866-922 Mhz | |
| Wifi: | 2.4 GHz only with external power supply | |
| Control and display | | |
| Display: | LCD (VA/TN), active area 54x34mm | |
| Buttons: | 8x, capacitive, backlit, configurable | |
| Other data | | |
| Operating temperature: | - 0 to 50 °C / max 80% RH | |
| Storage Temperature: | - 20 to 60 °C | |
| Enclosure: | IP30 (mounted) | |
| Overvoltage Category: | II. | |
| Pollution Degree: | 2 | |
| Working position: | horizontal | |
| Installation: | on EU or British box with 60 mm bolt spacing, desk stand | |
| Dimension: | 120x80x27 mm | |
| Weight: | 218 g | |
| Shape: | sharp edges | |
| Color (glass and plastic): | White | Black |
| Order Code: | 8917 | 8916 |
| EAN Code: | 8595188189170 | 8595188189163 |
| Standard: | EN 60730, EN 63044, EN 301489, EN 300220 | |



Buttons and display description

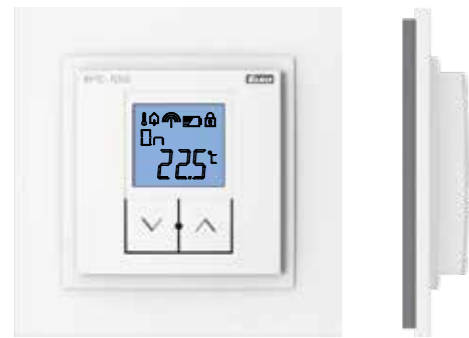


* External adapter can be used in case of permanent backlight or connection to iNELS.Cloud or app.

RFSTI-11B/SL
Switch unit with external temperature sensor

RFATV-2
Wireless thermostove

RFSA-266M
Switch unit for fancoil control
· If RFSA-266M is connected, it can be configured via web interface

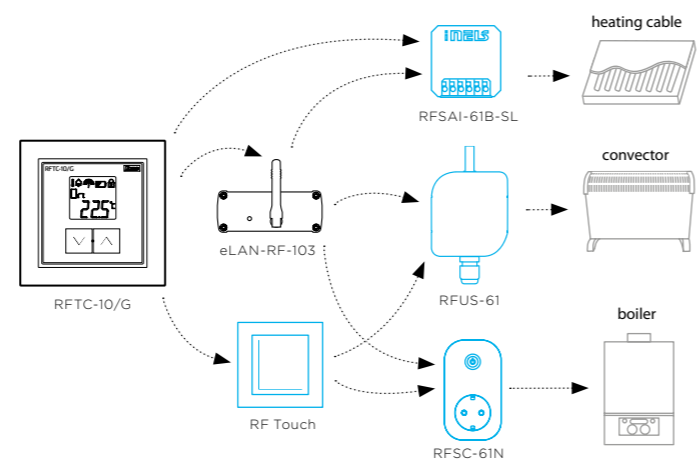
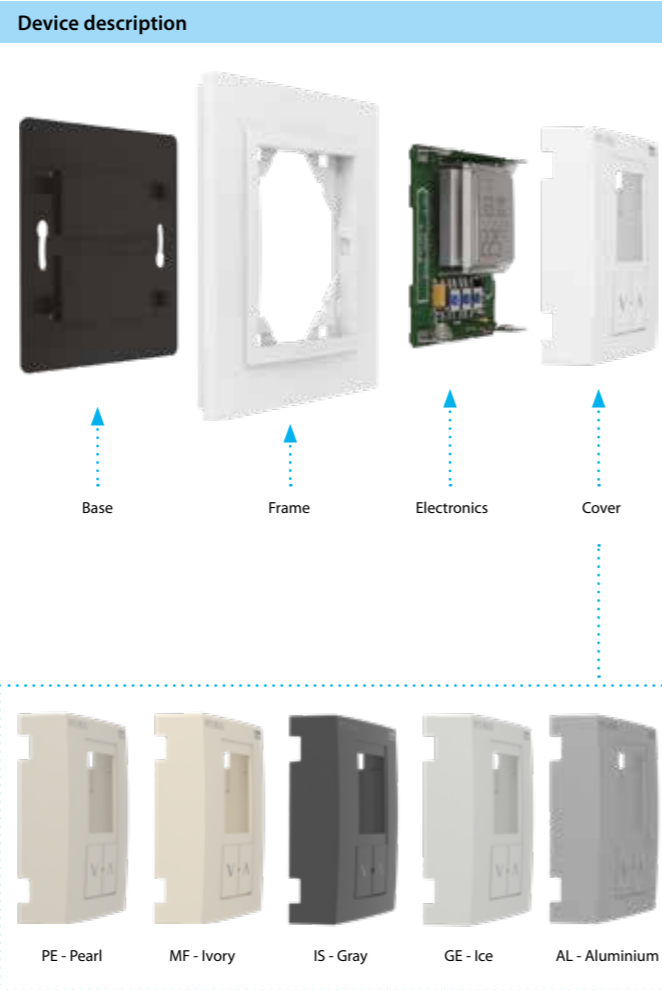
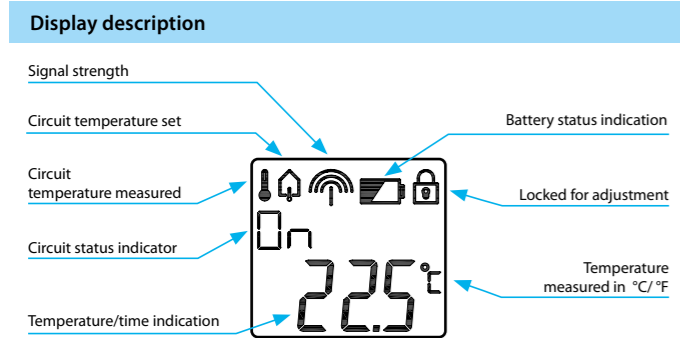


EAN code:
RFTC-10/G: 8595188145329

- RFTC-10/G is used for temperature measurement (in the range of 0 to 55 °C) and correction of the pre-set temperature in RF Touch or eLAN-Wireless system devices in the range of ± 5 °C. The temperature correction is valid until the next program change in the given system device.
- The backlit LCD display displays the current and set temperature, status (ON/OFF), battery status, etc.
- Range up to 100 m (in open space), if the signal is insufficient between the controller and unit, use the signal repeater RFRP-20N or protocol component RFIO2 that support this feature.
- Colour combination of heating unit in design of frames LOGUS⁹⁰ (plastic, glass, wood, metal, stone).

| Technical parameters | | RFTC-10/G |
|---------------------------------------|--|-----------|
| Supply voltage: | 2 x 1.5 V AAA batteries | |
| Battery life: | 1 year based on frequency of use | |
| Temperature correction: | 2 buttons V/Λ | |
| Temperature offset: | ± 5 °C | |
| Display: | LCD, characters/see Display description | |
| Backlighting: | active 10 s after pressing | |
| Transmission indication/function: | symbols | |
| Temperature measurement: | 1x internal sensor | |
| Temp. measurement range and accuracy: | 0 to +55 °C; 0.3 °C of the range | |
| Control | | |
| Communication protocol: | RFIO | |
| Frequency: | 866–922 MHz (for more information see p. 85) | |
| Repeater function: | no | |
| Signal transmission method: | bidirectionally addressed message | |
| Range: | in open space up to 100 m | |
| Minimum control distance: | 20 mm | |
| Other data | | |
| Max. number of control. | 1 | |
| RFSA-6x: | 1 | |
| Program: | x | |
| Operating temperature: | 0 to +55 °C | |
| Operating position: | wall-mounted | |
| Mounting: | glue/screws | |
| Protection: | IP30 | |
| Contamination degree: | 2 | |
| Dimensions frame | | |
| - plastic: | 85 x 85 x 20 mm | |
| - metal, glass, wood, granite: | 94 x 94 x 20 mm | |
| Weight: | 66 g (without batteries) | |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 | |

| Compatibility | | | | |
|---------------|---------|------------------|--------------|---------|
| RF Touch | eLAN-RF | RFSA-6x/RFSAI-6x | RFSTI-11B-SL | RFATV-2 |
| ✓ | ✓ | ✓ | - | - |

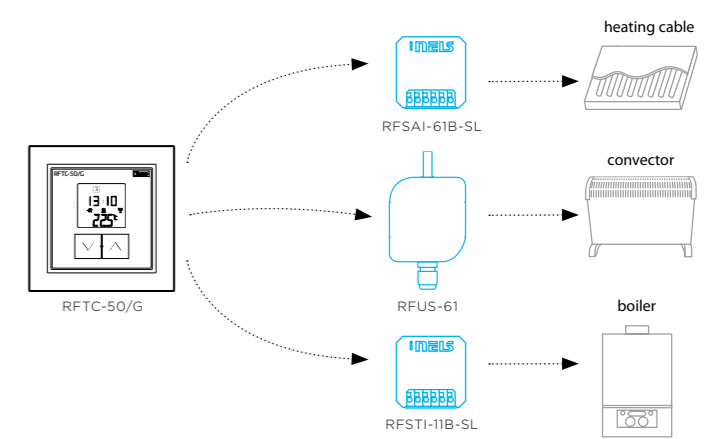
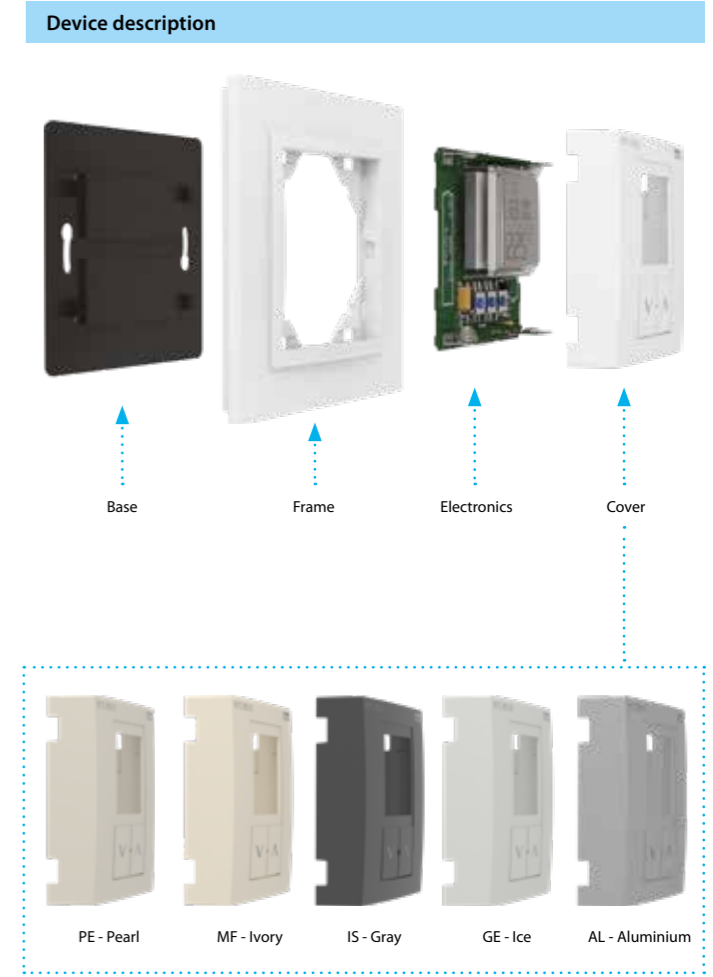
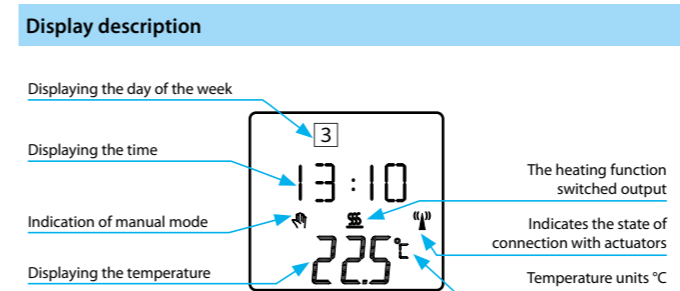


EAN code:
RFTC-50/G: 8595188148641

- RFTC-50/G is a separate thermostat that allows wireless control of up to 4 multifunctional switching components, e.g. RFSAI-6x, RFUS-61, RFSTI-11B.
- Temperature measurement with built-in sensor in the range of 0.55 °C, temperature setting in the range of 0 to +55 °C in the weekly program.
- The backlit LCD display displays the current and set temperature, status (ON/OFF), battery status, day of the week, current time, etc.
- Battery power (2x 1.5 V AAA batteries - included in supply) with battery life of around 1 year based on frequency of use.
- Range up to 100 m (in open space), if the signal is insufficient between the controller and unit, use the signal repeater RFRP-20N or protocol component RFIO2 that support this feature.
- Colour combination of temperature unit in design of frames LOGUS⁹⁰ (plastic, glass, wood, metal, stone).

| Technical parameters | | RFTC-50/G |
|---------------------------------------|---|-----------|
| Supply voltage: | 2x 1.5 V AAA batteries | |
| Battery life: | 1 year based on frequency of use according to the number of controlling actuators | |
| Temperature correction: | 2 buttons V / Λ | |
| Temperature offset: | ± 5 °C | |
| Display: | LCD, characters/see Display description | |
| Backlighting: | active 10 s after pressing | |
| Transmission indication/function: | symbols | |
| Temperature measurement: | 1x internal sensor | |
| Temp. measurement range and accuracy: | 0 to +55 °C; 0.3 °C of the range | |
| Control | | |
| Communication protocol: | RFIO | |
| Frequency: | 866–922 MHz (for more information see p. 85) | |
| Repeater function: | no | |
| Signal transmission method: | bidirectionally addressed message | |
| Range: | in open space up to 100 m | |
| Minimum control distance: | 20 mm | |
| Other data | | |
| Max. number of control. | 4 | |
| RFSA-6x: | 4 | |
| Program: | Weekly | |
| Operating temperature: | 0 to + 55 °C | |
| Operating position: | on the wall | |
| Mounting: | by gluing/screwing | |
| Protection: | IP30 | |
| Contamination degree: | 2 | |
| Dimensions frame | | |
| - plastic: | 85 x 85 x 20 mm | |
| - metal, glass, wood, granite: | 94 x 94 x 20 mm | |
| Weight: | 66 g (without batteries) | |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 | |

| Compatibility | | | | |
|---------------|---------|------------------|--------------|---------|
| RF Touch | eLAN-RF | RFSA-6x/RFSAI-6x | RFSTI-11B-SL | RFATV-2 |
| - | - | ✓ | ✓ | - |





EAN code:
RFSTI-11B-SL: 8595188184045

| Technical parameters | RFSTI-11B-SL |
|---------------------------|-----------------------------|
| Supply voltage: | 230 V AC |
| Supply voltage frequency: | 50-60 Hz |
| Apparent input: | 7 VA / $\cos \varphi = 0.1$ |
| Dissipated power: | 0.7 W |
| Supply voltage tolerance: | +10 %; -15 % |

| | |
|---------------------------------------|--------------------------------------|
| Temp. measurement range and accuracy: | -20 to +50 °C 0.5 °C of the range |
|---------------------------------------|--------------------------------------|

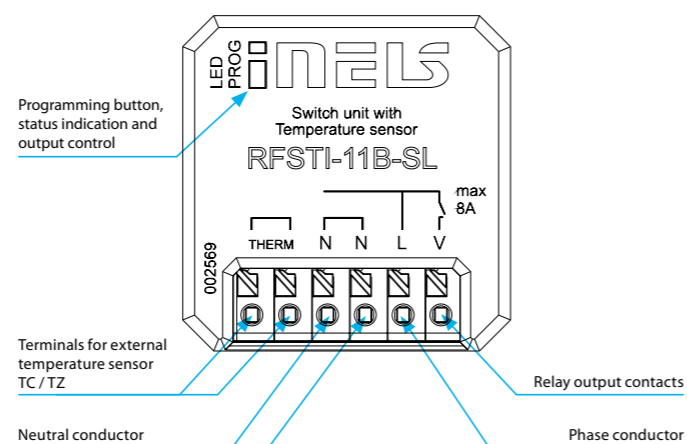
| Output | |
|--------------------------------|-------------------|
| Number of contacts: | 1x switching |
| Rated current: | 8 A / AC1 |
| Switching power: | 2000 VA / AC1 |
| Peak current: | 10 A / <3 s |
| Switching voltage: | 250 V AC1 |
| Mechanical service life: | 1x10 ⁷ |
| Electrical service life (AC1): | 1x10 ⁵ |

| Control | |
|-------------------------|--|
| Wireless: | 25-channels |
| Communication protocol: | RFIO2 |
| Frequency: | 866–922 MHz (for more information see p. 85) |
| Repeater function: | yes |
| Manual control: | button PROG (ON/OFF) |
| External button/switch: | yes |
| Range: | in open space up to 200 m |

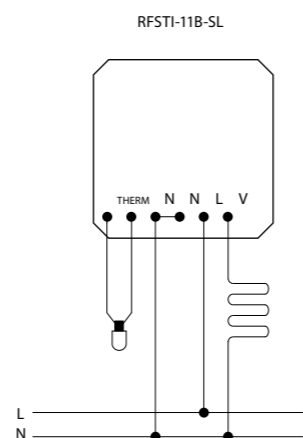
| Other data | |
|------------------------|--|
| Operating temperature: | -15 to +50 °C |
| Operating position: | any |
| Mounting: | free at lead-in wires |
| Protection: | IP40 |
| Overvoltage category: | III. |
| Contamination degree: | 2 |
| Connection: | screwless terminals |
| Connecting conductor: | 0.2-1.5 mm ² solid/flexible |
| Dimensions: | 43 x 44 x 22 mm |
| Weight: | 31g |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 |

- The temperature element measures the temperature with an external sensor and at the same time controls the heating circuit (electric under-floor heating, air conditioning, boiler...).
- They can be combined with Detectors, Controllers or iNELS Wireless system components.
- It measures the temperature in the range -20 to +50 °C and sends it to the system component in a regular 5 min. intervals. It sends a signal when the temperature changes suddenly.
- The heating/cooling, hysteresis and offset functions are set in the system component or application.
- It allows the connection of a switched load up to 8 A (2,000 W).
- Range up to 200 m (outdoors), in case of insufficient signal between the controller and the device, use the RFRP-20N signal repeater or component with the RFIO2 protocol that support this function.
- The BOX version offers installation directly in the installation box, ceiling or cover of the controlled appliance. Easy installation thanks to screwless terminals.
- External sensor TC (-20 to +80 °C) or TZ (-40 to +125 °C) with a length of 3 m, 6 m, 12 m. See „Accessories“ on page 45.

Device description



Connection



EAN code:
RFTI-20: 8595188134019

| Technical parameters | RFTI-20 |
|---|--|
| Supply voltage: | 2x 3 V CR 2032 battery |
| Battery life: | up to 1 year, according to the number of activations |
| Transmission indication/function: | red LED |
| Temperature and humidity measurement: | integrated digital sensor |
| Temperature measurement range and accuracy: | -10 to +50 °C; 0.5 °C of range |
| Humidity measurement range and accuracy: | 0 to 90 %; ±3 % of range |
| Output | |
| Communication protocol: | RFIO |
| Frequency: | 866–922 MHz (see p. 85) |
| Repeater function: | no |
| Signal transmission: | unidirectional message |
| Range: | in open space up to 160 m |
| Other data | |
| Operating temperature: | -10 to +50 °C |
| Working position: | any |
| Mounting: | glue/screws/loose |
| Protection: | IP30 |
| Contamination degree: | 2 |
| Dimensions: | 75 x 25 x 14 mm |
| Weight: | 45 g |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 |

- With an integrated digital sensor, it measures temperature and humidity in the range of -10 to +50 °C and at regular intervals of 20 min. sends it to the system device (eLAN-RF, RF-Touch).
- In the event of a sudden change in temperature and humidity, it sends a signal within 1 min.
- (2x 3 V batteries CR 2032 - included in the package) with a lifetime approx. 1 year (according to ambient temperature cycling).
- Range up to 160m (in open space), in case of insufficient signal between the controller and the device, use RFRP-20N signal repeater or devices with RFIO2 protocol that support this function.

Device description



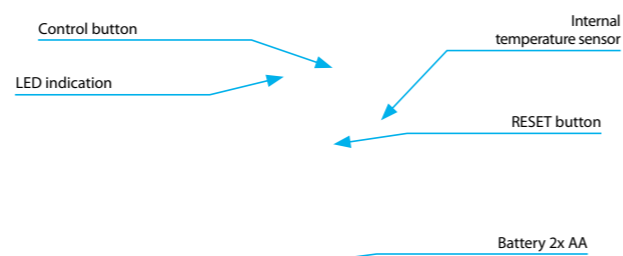


EAN code:
RFATV-2: 8595188182591

| Technical parameters | | RFATV-2 |
|-----------------------------------|--|---------|
| Supply voltage: | 2x 1.5 V battery AA | |
| Battery life: | 1 year based of frequency use | |
| Control | | |
| Communication protocol: | RFIO | |
| Frequency: | 866–922 MHz (for more information see p. 85) | |
| Wireless command from controller: | eLAN-RF-103, RF Touch 2 | |
| Range: | in open space up to 200 m | |
| Other data | | |
| Operating temperature: | 0 °C to +50 °C | |
| Operating position: | any | |
| Protection: | IP40 | |
| Dimension: | 52 x 52 x 70 mm | |
| Thermo-valve nuts: | M 30 x 1.5 | |
| Related standards: | EN 60730 | |

- The wireless thermovalve is used to regulate the temperature in the room. It is installed directly on the radiator valve, where it immediately measures the temperature in the room with the help of an internal temperature sensor and regulates the radiator valve with the built-in motor. The valve can also be installed on valves in distribution boards, when a temperature sensor from another element of the iNELS Wireless system will be used to measure the temperature in the room.
- To use the functions of the valve, it is necessary to connect it to the eLAN-RF or RF Touch system units, which will ensure heating and control of the valve from the app (Android, iOS, Samsung Smart TV) and the system unit with manual or automatic temperature modes.
- The valve measures the temperature in the range of 0°C...50°C and receives control instructions from the system units at a regular interval of every 6 minutes.
- The valve supports functions of anti-freeze mode, open window detection, communication failure with system unit and valve stiffening, which are described in detail below.
- The valve supports hysteresis and offset functions that can be set in the application or system unit.
- Battery power 2x AA 1.5 V batteries (included in the package)
- Communication range with system unit up to 200 m (in open space), to increase the range or change the direction of the signal, it is possible to use the RFRP-20NN repeater or other units of the system with support for the repeater function.
- In the base, the head is compatible with M30x1,5 valves, adapters that are not included in the package can be used for other valves.

Device description



Accessories (not included)

| | |
|----------------------------------|--|
| RE-C Reduction Coterm | |
| RE-DRTD Reduction Danfoss RTD | |
| RE-D Reduction Danfoss | |
| RE-G Reduction Giacomini | |
| RE-M Reduction Myjava | |
| RE-H Reduction Herz | |

TC, TZ | Temperature sensors



EAN code:
TC-0: 8595188110075 TC-6: 8595188110082
TC-3: 8595188110617 TC-12: 8595188110099

| Technical parameters | TC | TZ |
|------------------------|--|---|
| Range: | -20 to +80 °C (-4 to 176 °F) | -40 to +125 °C (-40 to 257 °F) |
| Scanning element: | NTC 12K | NTC 12K |
| Tolerance: | ±(0.15 °C + 0.002 t) | ±(0.15 °C + 0.002 t) |
| In air/in water: | (τ0.5) ≤ 18 s | (τ65) 62 s/8 s |
| In air/in water: | (τ0.9) ≤ 48 s | (τ95) 216 s/23 s |
| Cable material: | PVC unshielded, 2x 0.25 mm ² | silicon VO35S-F 2D x 0.5 mm ² |
| Terminal material: | polyamide | stainless steel |
| Protection degree: | IP67 | IP67 |
| Electrical strength: | 2500 VAC | 2500 VAC |
| Insulation resistance: | > 200 MΩ at 500 VDC | > 200 MΩ at 500 VDC |

| Types of temperature sensors: | TC | TZ |
|-------------------------------|--------------|--------------|
| - length: | TC-0: 100 mm | TZ-0: 110 mm |
| - weight: | TC-0: 5 g | TZ-0: 4.5 g |
| - length: | TC-3: 3 m | TZ-3: 3 m |
| - weight: | TC-3: 70 g | TZ-3: 106 g |
| - length: | TC-6: 6 m | TZ-6: 6 m |
| - weight: | TC-6: 130 g | TZ-6: 216 g |
| - length: | TC-12: 12 m | TZ-12: 12 m |
| - weight: | TC-12: 250 g | TZ-12: 418 g |

τ65 (95): time, which sensor needs to heat up on 65 (95) % of ambient temperature of environment, in which is located.

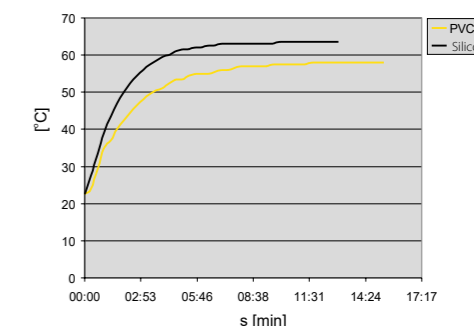
- Thermister temperature sensors are made of Negative Temperature Coefficient (NTC) embedded in a PVC or metal sleeve with a thermally-conductive sealer.
- Sensor TC**
- lead-in cable to sensor TC is made of wire CYSY 2D x 0.5 mm/0.02".
- Sensor TZ**
- cable VO35S-F 2D x 0.5 mm/0.02" with silicone insulation for use in high temperature applications.
- silicone insulation for use in high temperature applications.
- Temperature sensors can be connected directly to the terminal block
- Cable lengths can not be changed, connected or modified.

Resistive values of sensors in dependance on temperature

| Temperature (°C) | Sensor NTC (kΩ) |
|------------------|-----------------|
| 20 | 14.7 |
| 30 | 9.8 |
| 40 | 6.6 |
| 50 | 4.6 |
| 60 | 3.2 |
| 70 | 2.3 |

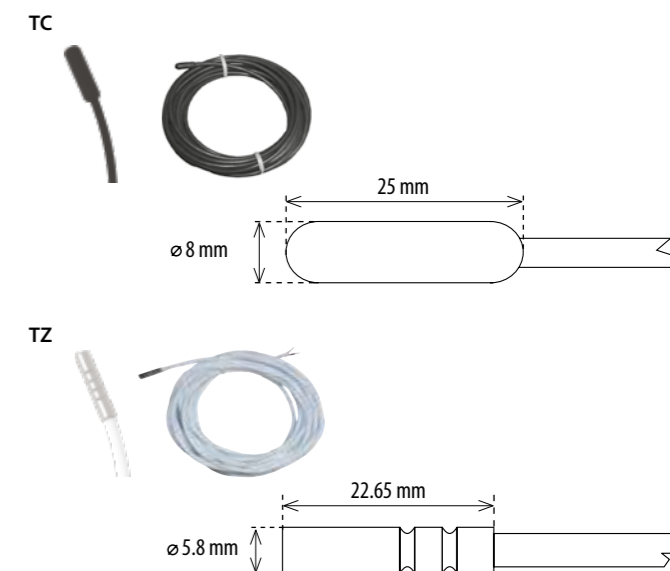
Tolerance of sensor NTC 12 kΩ is ± 5% by 25 °C/77 °F.

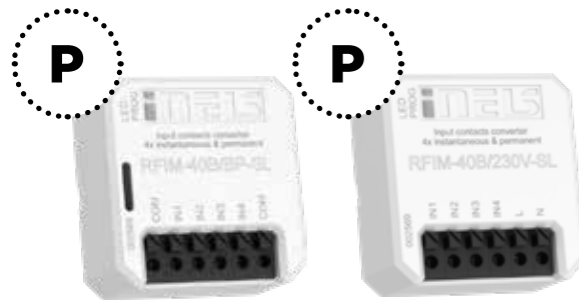
Diagramm of sensor warm up via air



PVC-reaction to water temperature from 22.5 °C to 58 °C.
Silicone - reaction to water temperature from 22.5 °C to 63.5 °C.

Design and dimensions





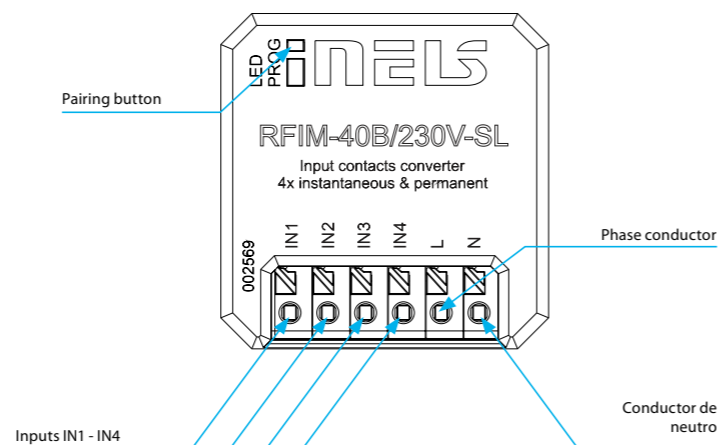
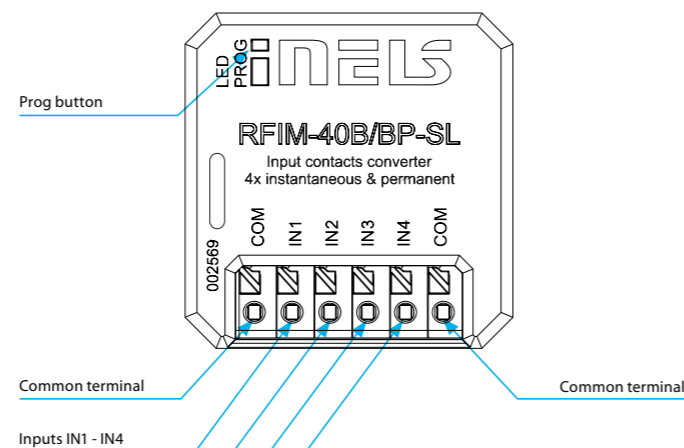
EAN code:
RFIM-40B/BP-SL: 8595188184069

RFIM-40B/230V-SL: 8595188184076

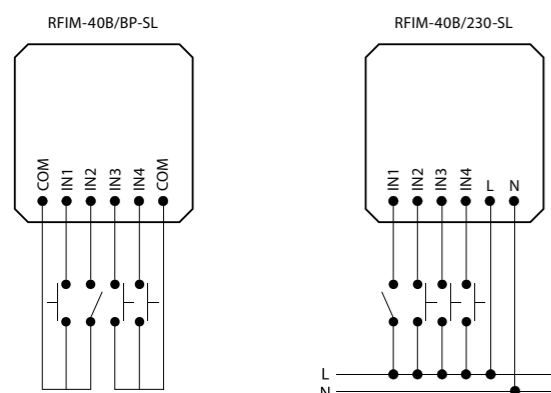
| Technical parameters | RFIM-40B/BP-SL | RFIM-40B/230V-SL |
|-----------------------------------|--|------------------|
| Supply voltage: | 1x 3 V battery CR 123A | 230 V AC |
| Battery life: | 8 years based of frequency use | |
| Indications/transfer function: | red LED | |
| Number of inputs: | 4 | 4 |
| Supply voltage tolerance: | +10 %; -15 % | |
| Control | | |
| Communication protocol: | RFIO2 | |
| Frequency: | 866–922 MHz (for more information see p. 85) | |
| Repeater function: | no | |
| Signal transmission method: | unidirectionally addressed message | |
| Range: | in open space up to 200 m | |
| Other data | | |
| Operating temperature: | -10 to +50 °C | |
| Operating position: | any | |
| Line resistance between terminals | | |
| - for closed button: | < 300 Ω | |
| - for open contact: | > 10 kΩ | |
| Mounting: | free at lead-in wires | |
| Protection: | IP40 | |
| Surge category: | III. | |
| Contamination degree: | 2 | |
| Connection: | screwless terminals | |
| Dimensions: | 43 x 44 x 22 mm | |
| Weight: | 37 g | 25 g |
| Contact voltage: | 3 V | 230 VA |
| Length of cable to contact: | max. 5 m | max. 100 m |
| | of parallel lines | |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 | |

- **RFIM-40B / BP-SL:** the wireless contact converter changes the wired button / switch to wireless.
- 4 inputs allow to control 4 devices independently,
- battery supply (3 V battery CR123A - included in the package) with a lifespan of about 8 years according to the frequency of use,
- the contact can be permanently closed.
- **RFIM-40B / 230V-SL:** the contact converter changes the button / switch with local mains supply to wireless.
- 4 inputs allow to control 4 devices independently,
- mains supply, the inputs respond to the supply of mains supply
- It can be used to transmit contact closing information (detector, buttons, technology, logic output).
- When the button is pressed, it sends the set command (ON / OFF, dimming, time off / on, pull / pull).
- Ability to set scenes where you control multiple iNELS Wireless components with a single press.
- Range up to 200 m (outdoors), in case of insufficient signal between the controller and the component, use the RFRP-20N signal repeater or elements with the RFIO2 protocol that support this function.
- The BOX version offers mounting directly in the installation box under the button / switch.
- Attention: The controller is paired with the elements using the pairing button. Ord. codes for controllers with pairing button: RFIM-40B/BP-SL Order No.: 8406, RFIM-40B/230V-SL Order No.: 8407, see Pairing controllers on p. 88.

Device description



Connection



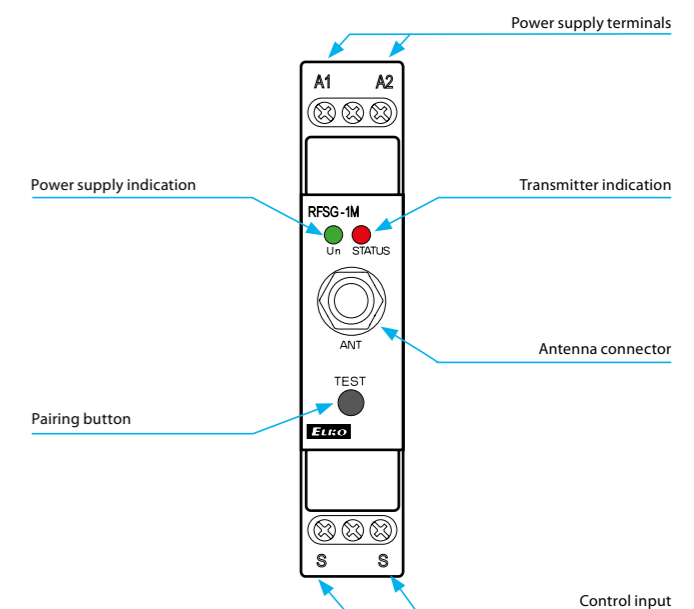
EAN code:
RFSG-1M: 8595188142847

| Technical parameters | RFSG-1M |
|-----------------------------------|--|
| Supply voltage: | 110–230 V AC |
| Supply voltage frequency: | 50–60 Hz |
| Apparent input: | 2 VA |
| Dissipated power: | 0.2 W |
| Supply voltage tolerance: | +10 %/-25 % |
| Power supply indication: | green LED |
| Input | |
| Control voltage: | AC 12–230 V/DC 12–230 V |
| Control input power: | AC 0.025 VA/DC 0.1 W |
| Control terminals: | S–S |
| The length of control impulse: | min. 25 ms (max. unlimited) |
| Transmission indication/function: | red LED |
| Control | |
| Communication protocol: | RFIO |
| Frequency: | 866–922 MHz (for more information see p. 85) |
| Repeater function: | no |
| Signal transmission method: | unidirectionally addressed message |
| Range: | in open space up to 160 m |
| Minimum control distance: | 20 mm |
| Wireless antenna: | AN-I included (SMA connector)* |
| Other data | |
| Operating temperature: | -15 to +50 °C |
| Operating position: | any |
| Mounting: | DIN rail support EN 60715 |
| Protection: | IP20 from the front panel |
| Overvoltage category: | III. |
| Contamination degree: | 2 |
| Connecting conductor | max. 1x 2.5, max. 2x 1.5/ with a hollow max. 1x 2.5 |
| Dimensions: | 90 x 17.6 x 64 mm |
| Weight: | 62 g |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 |

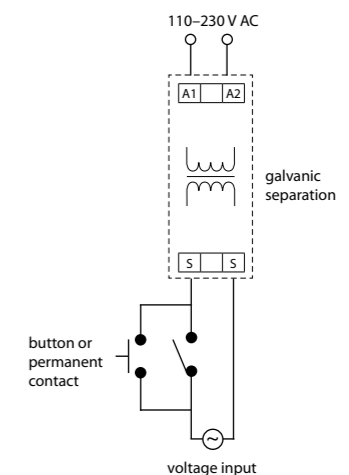
* Max Tightening Torque for antenna connector is 0.56 Nm.

- This wireless contact converter is especially appropriate for wireless transmission of information on switching HDO.
- Thanks to the permanent power supply, it can also be used for partial transmission of information for control of an appliance or device.
- After leading in power to the "S" terminals, it periodically transmits the command switch on in an interval of 2 min. When disconnecting the power supply, immediately switch off.
- The button TEST on the controller is used to assign to a switching unit.
- The package includes an internal antenna AN-I, in case of locating the converter in a metal switchboard, you can use the external antenna AN-E for better signal reception, see accessories on page 66.
- Range up to 160 m (in open space), if the signal is insufficient between the controller and unit, use the signal repeater RFRP-20N.
- 1-MODULE design of the unit with mounting into switchboard.
- The product is suitable for the transmission of control signals within photovoltaic electrical installations.
- Attention: The controller is paired with the elements using the pairing button. Ord. codes for controllers with pairing button: RFSG-1M Order No.: 8240, see Pairing controllers on p. 88.

Device description



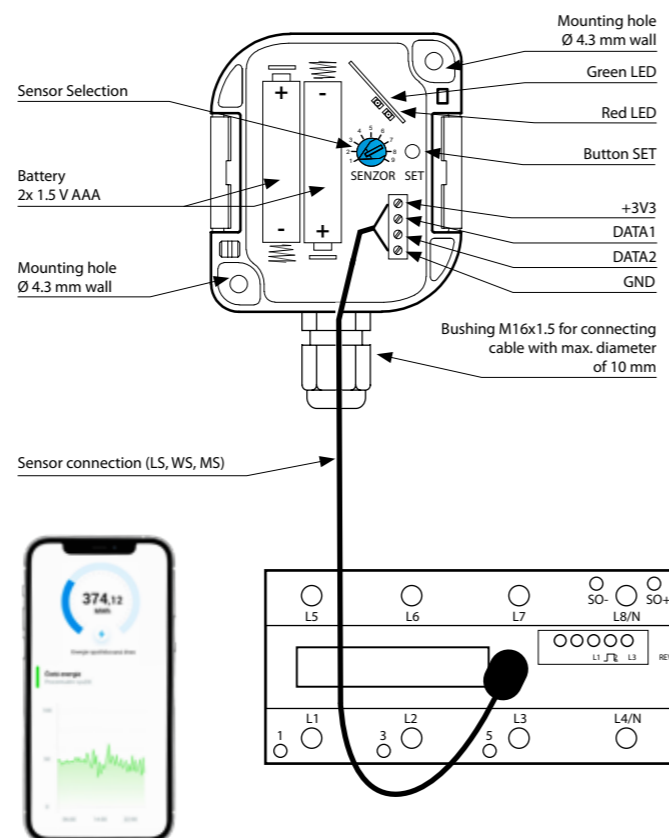
Connection





- The wireless pulse converter detects home energy meters (electric, water, gas) by means of sensors, and sends them to the wireless unit eLAN-RF-103.
- Measured values are displayed in the iNELS application iHC-MAIRF/iHC-MIIRF, in daily, weekly or monthly overview in graphs.
- The sensor is designed for use on existing meters and even without the impulse output "SO" (The gauge must support scan).
- RFTM-1 transfers consumption from meters using sensors - LS (LED sensor), WS (Magnetic sensor for meter), MS (Magnetic sensor) or by impulse output („SO“).
- For each consumption meter, it is necessary to have one pulse converter RFTM-1.
- Battery power (2x 1.5 V AAA batteries - included in package) with average battery life of around 2 years (according to the type of scan, frequency of transmissions and pulses).
- Range up to 100 m (in open space), if the signal between the controller and the user is weak, use the signal repeater RFRP-20N or protocol component RFIO2 that support this feature.
- The increased IP65 protection is appropriate for mounting in risers, switchboards and other demanding environments.

Device description



| Technical parameters | | RFTM-1 |
|--|---|--------|
| Power supply: | 2x 1.5 AAA batteries | |
| Battery Life: | Appr. 2 years, (depending on the type of sensor, frequency of transmissions and pulses) | |
| Indication | | |
| Setting mode: | Green LED flashes - active Red LED - flashes during impulse sensor registration | |
| Communications Test - Wireless STATUS: | Green LED - communication OK Red LED - communication ERR | |
| Normal operation: | no indication | |
| Control | | |
| Manual control: | button SET | |
| Sensor Selection: | rotary potentiometer | |
| Supported sensors (not included in the package): | LS (LED sensor) MS, WS (magnetic sensor) SO (Contact, open collector, reed magnetic contacts) | |
| Output | | |
| Communication protocol: | RFIO | |
| Frequency | 866–922 MHz (for more information see p. 85) | |
| Range: | in open space up to 100 m | |
| Other data | | |
| Working temperature: | -20 to +50 °C * | |
| Storage temperature: | -30 to +70 °C | |
| Operating position: | any | |
| Protection: | IP65 | |
| Cross-section of connecting wires: | max. 0.5 - 1 mm ² | |
| Dimension: | 72 x 62 x 34 mm | |
| Weight: | 104 g | |

* Pay attention to the operating temperature of batteries.

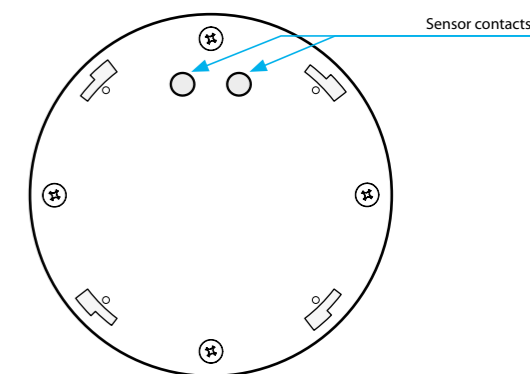


EAN code:
RFSF-100: 8595188176828

| Technical parameters | | RFSF-100 |
|--|--|----------|
| Power supply | | |
| Battery power: | 2x 1.5 V AAA batteries | |
| Battery life by frequency 1x 12 hours: | 3 years | |
| Setting | | |
| Alarm Detection: | optical and audible alarm | |
| Battery status view: | low battery is indicated by 5 flashes every 15 minutes or by display in the system element | |
| Acoustic signal: | greater than 45 dB/1m | |
| Detection | | |
| Sensor: | contacts for flooding | |
| Detection principle: | contact between the sensor sensed liquid | |
| Response Time: | 2 s after connecting the scanning contacts | |
| Measurement accuracy: | 99.8 % | |
| Sensitivity: | in the range 0–170 kΩ | |
| Control | | |
| Communication protocol: | RFIO | |
| Frequency: | 866–922 MHz (for more information see p. 85) | |
| Repeater function: | no | |
| Signal transmission method: | unidirectionally addressed message | |
| Range: | in open space up to 160 m | |
| Other parameters | | |
| Working temperature: | 0 to +50 °C (Pay attention to the operating temperature of batteries) | |
| Storage temperature: | -20 to +60 °C | |
| Operation position: | capture contacts for flooding downwards | |
| Mounting: | loose | |
| Protection degree: | IP62 | |
| Dimension: | Ø 89 x 23 mm | |
| Weight: | 92 g | |
| Related standards: | EN 60730, EN 63044, EN 301489, EN 300 220 | |

- The flood detector is used to detect water leakage - the activation occurs the moment the flooding of the contacts located on the underside of the detector occurs.
- Upon detecting water, the flood detector immediately sends a signal to the switched unit, which further switches on a pump or closes a pipe valve.
- Flood detection is signalled by optical and acoustic signalling.
- Range up to 160 m (in open space); if the signal is insufficient between the controller and unit, use the signal repeater RFRP-20N or protocol component RFIO2 that support this feature.

Description



Function

When the scanning contact is connected, the detector sends the message and starts alarm.

Conductivity of liquids

| Liquids suitable for detection | | Inadmissible liquids |
|--------------------------------|--------------------|------------------------------|
| Type of liquid | Resistivity [Ωcm]* | |
| Drinking water | 5–10 kΩ | Demineralised water |
| Well water | 2–5 kΩ | Deionised water |
| River water | 2–15 kΩ | Bourbon |
| Rain water | 15–25 kΩ | Gasoline |
| Waste water | 0.5–2 kΩ | Oil |
| Seawater | ~0.03 kΩ | Liquid gases |
| Salt water | ~2.2 kΩ | Paraffin |
| Natural/hard water | ~5 kΩ | Ethylene glycol |
| Chlorinated water | ~5 kΩ | Paints |
| Condensed water | ~18 kΩ | High alcohol-content liquids |
| Milk | ~1 kΩ | |
| Milk serum | ~1 kΩ | |
| Fruit juices | ~1 kΩ | |
| Vegetable Juices | ~1 kΩ | |
| Broths | ~1 kΩ | |
| Wine | ~2.2 kΩ | |
| Beer | ~2.2 kΩ | |
| Coffee | ~2.2 kΩ | |
| Soap toam | ~18 kΩ | |

* Resistivity characterizes the resistive properties of materials which conduct electric current.

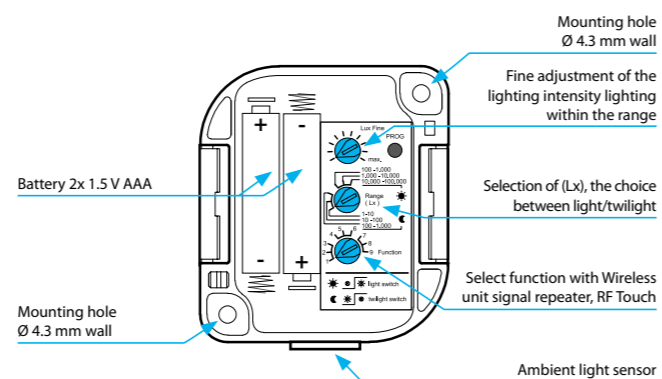


EAN code:
RFSOU-1: 8595188147071

| Technical parameters | | RFSOU-1 |
|-------------------------------------|---|---------|
| Power supply: | 2 x 1.5 AAA batteries | |
| Battery Life: | Appr. 2 years, according to the number of controlled units | |
| Setting the range of light levels | | |
| Function ☾ (twilight switch) | | |
| - Range 1: | 1 to 10 lx | |
| - Range 2: | 10 to 100 lx | |
| - Range 3: | 100 to 1.000 lx | |
| Function ☀ (light switch) | | |
| - Range 1: | 100 to 1 000 lx | |
| - Range 2: | 1 000 to 10 000 lx | |
| - Range 3: | 10 000 to 100 000 lx | |
| Function setting: | rotary switch | |
| The level of lighting gently: | 0.1 to 1 x range | |
| Fine adjustment of lighting levels: | potentiometer | |
| The time delay t: | 0/1 min./2 min. | |
| Setting the delay time t: | rotary switch | |
| Control | | |
| Communication protocol: | RFIO | |
| Frequency: | 866–922 MHz (for more information see p. 85) | |
| Repeater function: | no | |
| Range: | in open space up to 160 m | |
| Other data | | |
| Working temperature: | -20 to +50 °C | |
| Storage temperature: | -30 to +70 °C | |
| Operating position: | sensor side down | |
| Protection: | IP65 | |
| Degree of pollution: | 2 | |
| Dimension: | 72 x 62 x 34 mm | |
| Weight: | 104 g | |
| Standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 | |

- The twilight switch measures the light intensity and based on a set value, it sends the command to switch on the lights or pull the blinds up or down.
- It can be combined with multifunctional switching units and blind switches.
- Integrated sensor for measuring illumination, settable in 3 ranges 1-100,000 lx.
- Selection of function:
 - a) twilight switch – automatically switches on upon a decrease in ambient light intensity, switches off upon an increase (appropriate for garden lights, advertisements, public lighting, etc.).
 - b) light switch – automatically switches on upon an increase in ambient light intensity, switches off upon a decrease (appropriate for offices, restaurants, rooms, etc.).
- Settable delay up to 2 minutes to eliminate unwanted switching caused by surrounding influences.
- The twilight switch may control up to 32 units in the installation.
- The programming button on the regulator is used for:
 - a) setting a function with a switching or blind unit
 - b) ascertaining battery status
 - c) ascertaining signal quality between the unit and dimmer.
- Battery power (2x 1.5 V AAA batteries - included in supply) with battery life of around 2 years based on the number of controlled units.
- Range up to 160 m (in open space), if the signal is insufficient between the controller and unit, use the signal repeater RFRP-20N or protocol component RFIO2 that support this feature.

Device description



EAN code:
RFWD-100: 8595188150279

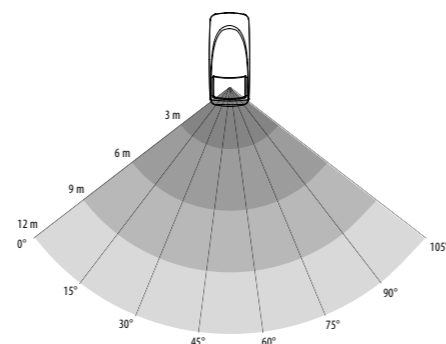
| Technical parameters | | RFWD-100 |
|----------------------------|--|----------|
| Power supply: | 1x 3 V CR 2032 battery | |
| Drained battery indicator: | yes | |
| Control | | |
| Communication protocol: | RFIO | |
| Frequency: | 866–922 MHz (for more information see p. 85) | |
| Repeater function: | no | |
| Other data | | |
| Working temperature: | -10 to +50 °C | |
| Protection: | IP20 | |
| Colour: | white | |
| Dimension: | 25 x 75 x 16 mm | |
| Magnet dimension: | 15 x 75 x 14 mm | |
| Standards: | EN 60730, EN 63044, EN 301489, EN 300 220 | |

- The Window/Door detector is used to detect opening where activation occurs when the magnet and the sensor become separated.
- Use:
 - in combination with the switching unit for automatic light control (cellar, garage, etc.).
 - by means of the Smart RF gate, detection can be displayed on your smart phone in the form of a notification; alarms are stored in the history, which is visualized in the iNELS application.
- Anti-tamper function: an alarm is triggered if there is an unauthorized interference to detector.
- Power supply: 1x 3 V CR 2032 battery, the battery life is around 1 year, thanks to the ability to turn off the LED indicator it is possible to extend up to 3 years.
- "Low Battery" Alerts on Your iNELS App.
- The detectors are compatible with switching components marked with the RFIO2 communication protocol and the eLAN-RF system components.



- The motion detector PIR is used to detect persons moving inside the building interior.
- Use:
 - in combination with a switching unit for automatic control of lighting or triggering an alarm.
 - by means of the Smart RF gate, detection can be displayed on your smart phone in the form of a notification; alarms are stored in the history, which is visualized in the iNELS application.
- Sensitivity settings of the PIR detector for eliminating unwanted triggering.
- Integrated lighting sensor, thanks to which you can set the detector's reaction time.
- Option of activation/deactivation of the LED indicator on the detector cover.
- Anti-tamper function: an alarm is triggered if there is an unauthorized interference to detector.
- Power supply: 2x 1.5 V AA batteries, the battery life is around 1 year.
- "Low Battery" Alerts by double LED flashing or on iHC App.
- The detectors are compatible with switching components marked with the RFIO2 communication protocol and the eLAN-Wireless system components.

Detection field



EAN code:

RFMD-100: 8595188150293

| Technical parameters | RFMD-100 |
|-----------------------------|--|
| Power supply: | 2x 1.5 V AA batteries |
| Battery life: | up to 1 year, according to the number of activations |
| Drained battery indicator: | yes |
| Control | |
| Communication protocol: | RFIO |
| Frequency: | 866–922 MHz (for more information see p. 85) |
| Repeater function: | no |
| Detection angle: | 105° |
| Detection distance: | max. 12 m |
| Recommended working height: | max. 2.4 m |
| Other data | |
| Working temperature: | -10 to +50 °C |
| Protection: | IP20 |
| Colour: | white |
| Dimension: | 46 x 105 x 43 mm |
| Weight: | 57 g |
| EMC resistance: | level 2 |
| Related standards: | EN 60730, EN 63044, EN 301489, EN 300 220 |

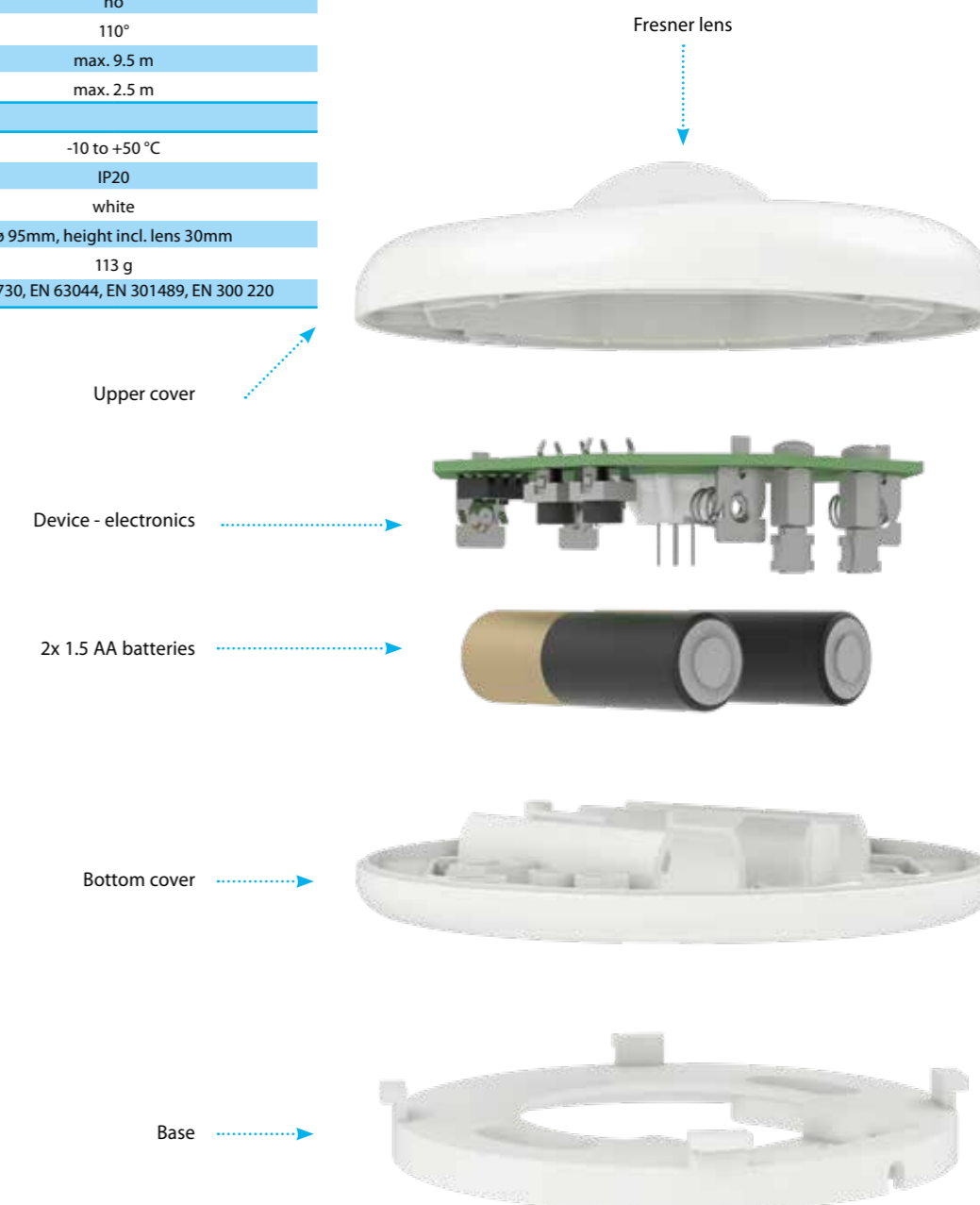


EAN code:

RFMD-200: 8595188189194

| Technical parameters | RFMD-200 |
|-----------------------------|--|
| Power supply: | 2x 1.5 V AA batteries |
| Battery life: | up to 1 year, according to the number of activations |
| Drained battery indicator: | yes |
| Control | |
| Communication protocol: | RFIO |
| Frequency: | 866–922 MHz (for more information see p. 85) |
| Repeater function: | no |
| Detection angle: | 110° |
| Detection distance: | max. 9.5 m |
| Recommended working height: | max. 2.5 m |
| Other data | |
| Working temperature: | -10 to +50 °C |
| Protection: | IP20 |
| Colour: | white |
| Dimension: | ø 95mm, height incl. lens 30mm |
| Weight: | 113 g |
| Related standards: | EN 60730, EN 63044, EN 301489, EN 300 220 |

- The motion detector PIR is used to detect presence persons moving inside the building interior.
- Use:
 - in combination with a switching unit for automatic control of lighting or triggering an alarm.
 - by means of the Smart RF gate, detection can be displayed on your smart phone in the form of a notification; alarms are stored in the history, which is visualized in the iNELS application.
- In combination with hotel elements (HRESK) it can serve as a room occupancy sensor
- Sensitivity settings of the PIR detector for eliminating unwanted triggering.
- Option of activation/deactivation of the LED indicator on the detector cover.
- Power supply: 2x 1.5 V AA batteries, the battery life is around 1 year.
- "Low Battery" Alerts by double LED flashing or on iHC App.
- The detectors are compatible with switching components marked with the RFIO2 communication protocol and the eLAN-Wireless system components.



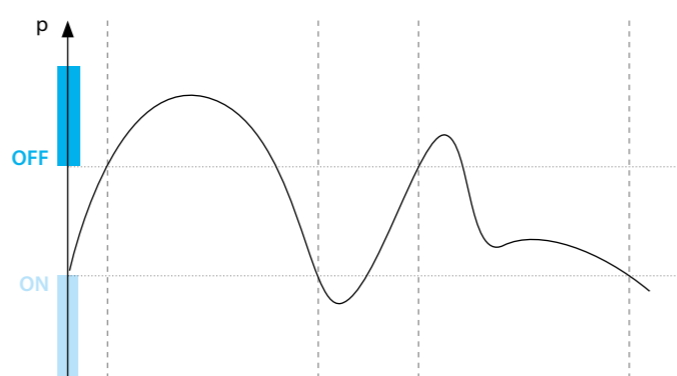
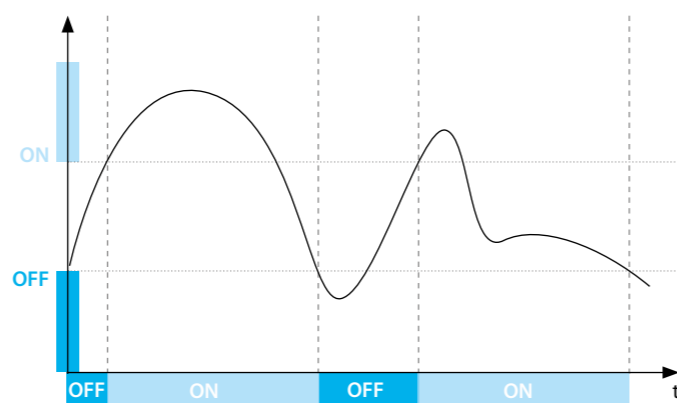


EAN code:
8595188183994

| Technical parameters | | RFSLT-S3 |
|--------------------------------|--|----------|
| Power supply | Battery (lithium cell, 3V6-AA-LS) | |
| Input | Pressure sensor with digital connection | |
| Probe cable length: | standard 3m | |
| Measuring range: | standard 0-3m H ₂ O (other by agreement) | |
| Measurement frequency: | 1x / 2.5 min (configurable) | |
| Output | | |
| Relay: | up to 6 relays | |
| Output update frequency: | after every measurement | |
| Accuracy: | ± 0,5% | |
| Time response: | ≤ 100ms | |
| long-term stability: | ≤ ± 0,2 % span / year under reference conditions | |
| Mechanical stability: | | |
| vibrations | 10g, 25 Hz...2 kHz | |
| shocks | 100g / 1ms | |
| Electrical resistance | | |
| Short circuit protection: | permanent | |
| Reverse polarity protection: | approx. 1 year (according to ambient temperature cycling) | |
| Electromagnetic compatibility: | radiation and immunity to interference according to EN 61326 | |
| Control | | |
| <i>iNELS standard</i> | | |
| Communication protocol: | RFIO | |
| Frequency: | 866-922 MHz (for more information see p. 77) | |
| Repeater function: | no | |
| Manual control: | application | |
| Range: | in open space up to 200 m | |
| <i>Bluetooth</i> | | |
| Communication protocol: | Bluetooth Low Energy | |
| Frequency: | 2.4GHz | |
| Repeater function: | no | |
| Manual control: | application | |
| Range: | in open space up to 50 m | |
| Other data | | |
| Operating temperature: | -20 ... +40 °C | |
| Working position: | any | |
| Mounting: | screws | |
| Protection: | IP65, probe IP68 | |
| Recommended power cable: | The sensor including the cable is included in the package | |
| Dimension: | 136 x 62 x 34 mm | |
| Weight: | 150 g | |
| Standards: | EN 60730, EN 63044, EN 300 220, EN 301 489, EN 300 328 | |

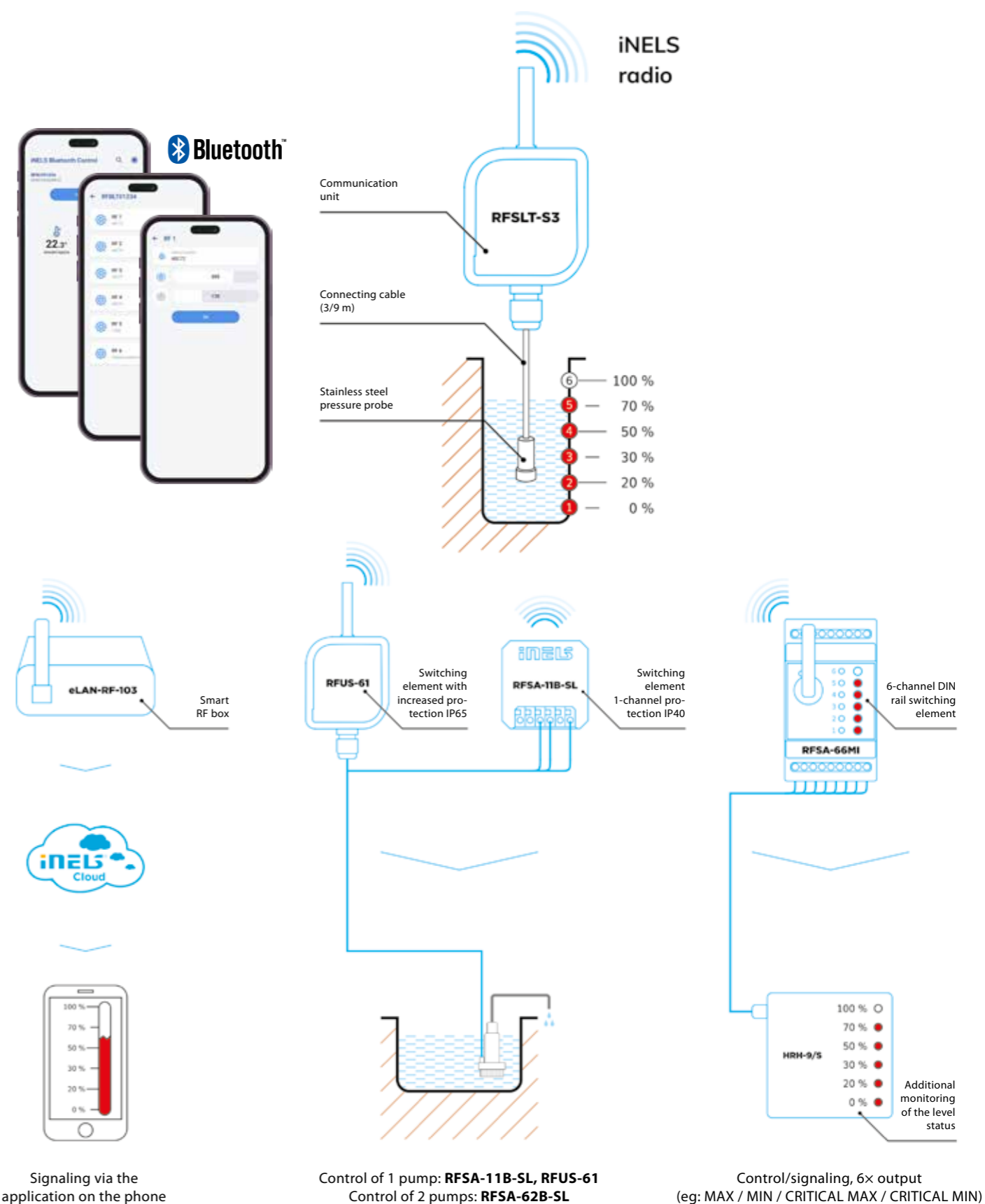
- It measures the level of liquids based on the principle of hydrostatic pressure measurement.
- It consists of a communication unit in a plastic case with IP65 protection placed above the surface and a stainless steel pressure probe connected by a cable lowered to the bottom of the tank.
- The standard length of the probe cable is 3m or 9m.
- The unit communicates wirelessly via the RFIO2 protocol with the devices of the iNELS RF Control system and is powered by a 3V6 lithium battery. The range of the switching actuators from the unit is determined by the building/location, in open space it is normally 200 meters.
- The unit can also communicate with the eLAN-RF-103 gateway, which conveys level information to the iNELS application.
- In the application, it is possible to manage switching actuators, edit notifications, continuously monitor the level, pressure, temperature and battery discharge status in the unit.
- The unit itself is set up via the iSonda application from an Android/iOS smartphone via the Bluetooth interface (LowEnergy, 4.1 and higher).

Function



Materials (in contact with the medium)

| | |
|---------------|--------------------------------|
| Housing: | stainless steel 1.4301 (304) |
| Seal: | FKM |
| Membrane: | stainless steel 1.4435 (316 L) |
| Cable jacket: | PUR |



N



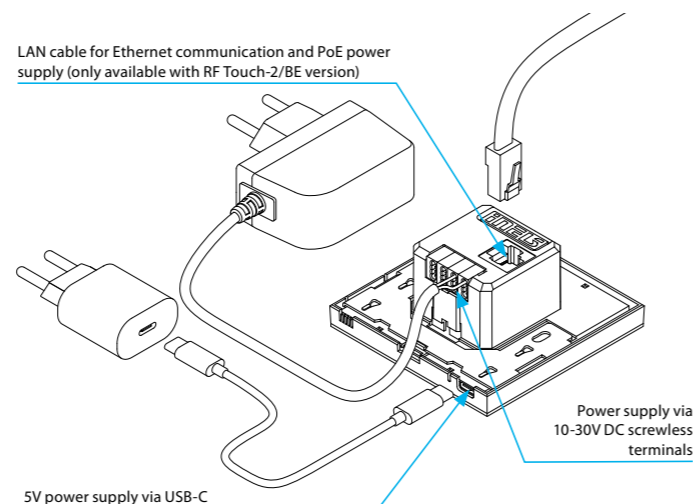
EAN code:
RF TOUCH-2/BE: 8595188182669
RF TOUCH-2/BR: 8595188189743

| Technical parameters | RF Touch-2/BE | RF Touch-2/BR |
|-----------------------------------|---|---------------|
| Display | | |
| Type: | color TFT LCD 4" | |
| Distinction: | 480 x 480 pixels | |
| Aspect Ratio: | 72 x 72 mm | |
| Visible area: | active (white LED) | |
| Backlight: | capacitive | |
| Power supply | | |
| USB-C: | 5V | 5V |
| Passive PoE: | 24V | — |
| Terminal plate: | (10-30V DC) | |
| Power consumption: | max. 3 W | |
| Communication | | |
| Radio | | |
| Communication protocol: | RFIO2 | |
| Frequency: | 866–922 MHz (for more information see p.81) | |
| Range: | open space up to 200 m | |
| Min. distance RF Touch component: | 1 m | |
| WiFi | | |
| Protocols: | 802.11 b/g/n (802.11n to 150 Mbps) A-MPDU and A-MSDU | |
| Frequency: | 2.4 GHz | |
| LAN | | |
| Ethernet: | 100 Mbit/s | |
| Sensors and notifications | | |
| Temperature sensor | 0-50 °C; 0.2 °C out of range | |
| Humidity sensor | 0-100%; 2% of range (RH) | |
| Proximity sensor | 15cm | |
| Notification LED | RGB | |
| Operating conditions | | |
| Operating temperature: | 0 to +50 °C | |
| Storage temperature: | - 20 to +70 °C | |
| Cover: | IP20 | |
| Surge category: | III. | |
| Degree of pollution: | 2 | |
| Working position: | any | |
| Installation: | into the installation box | |
| Dimensions: | 86 x 86 x 10 (37) | |
| Weight (plastic): | 120 g | |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489, EN 300 328 | |

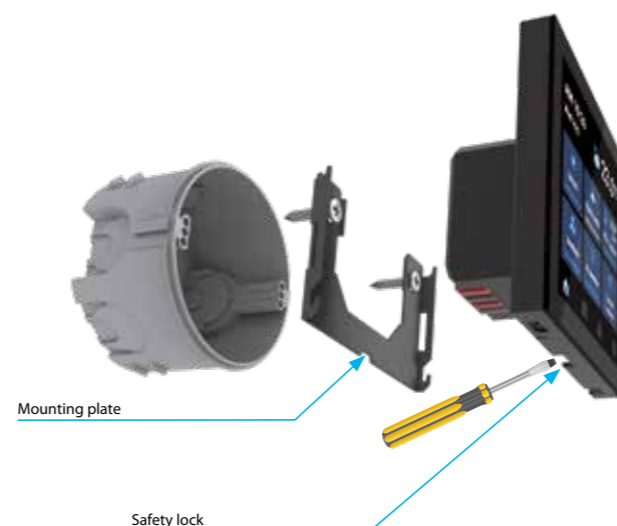
- RF Touch-2 touch control unit is a system element used for automatic and manual control of switching, dimming, or blind elements and heating control elements within the iNELS Wireless system.
- The control unit is available in two versions:
 - RF Touch-2/BE – professional version powered via PoE, USB-C, or 10-30V DC screwless terminals and communicating via Wi-Fi and LAN for connection in new home installations, hotels, hospitals, and office buildings
 - RF Touch-2/BR – simpler version with powered via USB-C or 10-30V screwless terminals and communicating via Wi-Fi for easy connection in renovated rooms without having to connect to the local network
- Both versions communicate wirelessly with iNELS Wireless units using radio frequency and allow up to 40 wireless element addresses and 30 detectors to be connected in this way.
- RF Touch-2 touch unit also serves as a communication gateway, so besides direct control via the 4" capacitive display, it allows communication with the system via the iNELS app and provides connection to the iNELS Cloud.
- A great advantage of the unit is that it supports the MQTT protocol, thus allowing controlling it via HomeKit, Home Assistant, and other Smart Home and professional BMS integrations.
- RF Touch-2 unit offers a range of automatic functions that can be used even when not connected to a local network, such as controlling heating modes, timers, light scenes, and leaving buttons.
- RF Touch-2 features integrated temperature and humidity sensors for controlling heating modes and a proximity sensor for non-contact lighting of the display.
- Innovative design allows for easy installation in a mounting box

Device description

LAN cable for Ethernet communication and PoE power supply (only available with RF Touch-2/BE version)



5V power supply via USB-C



Mounting plate

Safety lock

Communication diagram

Communication with RF Touch-2 can be direct (fixed IP) or indirect (via iNELS cloud).



Screen preview





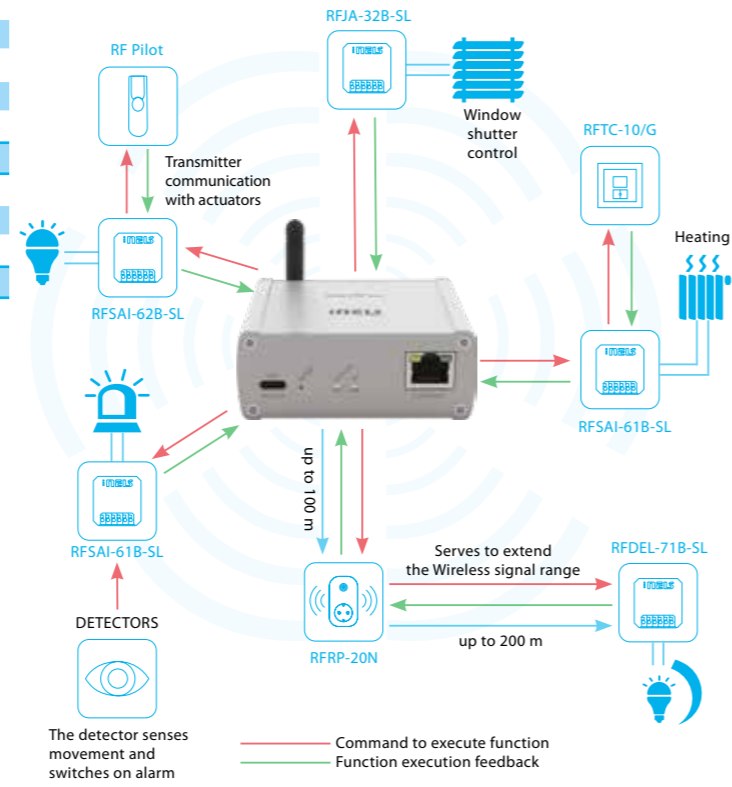
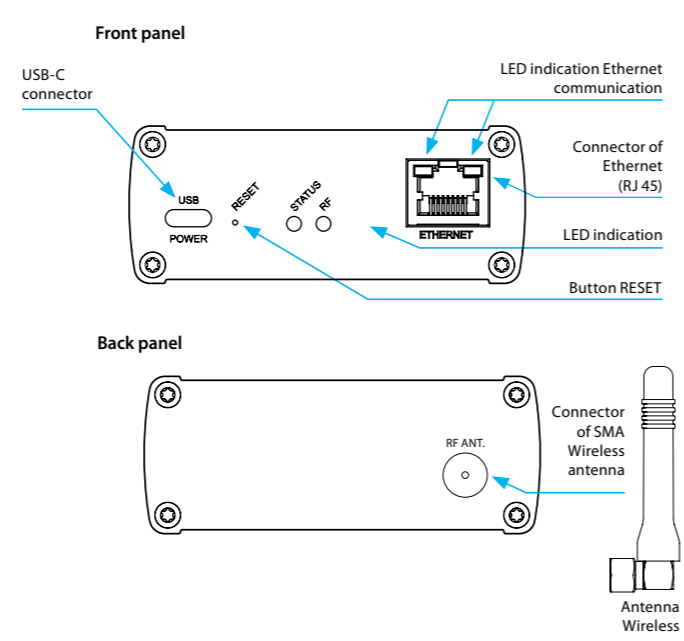
EAN code:
eLAN-RF-103: 8595188180443

| Technical parameters | | eLAN-RF-103 |
|--------------------------------------|--|-------------|
| Interface Wireless Control | | |
| Communication protocol: | RFIO2 | |
| Broadcasting frequency: | 866–922 MHz (for more information see p. 85) | |
| Signal transfer method: | two-way addressed message | |
| Output for antenna: | SMA connector* | |
| Antenna Wireless: | AN-I 1 dB | |
| Indications Wireless communications: | 1x green RF LED | |
| Range: | in open space up to 100 m | |
| Interface Ethernet | | |
| ETH operating status indicator: | green LED | |
| ETH communication indicator: | yellow LED | |
| Communications interface: | 100 Mbps (RJ45) | |
| Preset IP address: | DHCP | |
| Power supply | | |
| Supply voltage/current: | 5 V DC/0.5 A | |
| Power source: | 110–230 V AC/5 V DC–2 A (connector USB-C) | |
| Button RESET | | |
| - short press: | restart the device | |
| - press > 5 s: | reset network settings | |
| - press > 10 s: | reset to factory settings | |
| Indication LED STATUS | | |
| - green: | normal mode | |
| - red: | error condition | |
| - orange: | initialization/start | |
| Other data | | |
| Operating temperature: | -20 to +50 °C | |
| Storage temperature: | -25 to +70 °C | |
| Protection: | IP20 | |
| Contamination degree: | 2 | |
| Working position: | any | |
| Dimensions: | 90 x 52 x 65 mm | |
| Weight: | 136 g | |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 | |

* Max Tightening Torque for antenna connector is 0.56 Nm.

- The Smart Wireless Box is a gateway between iNELS Wireless elements and applications for smartphones, tablets, watches, televisions, voice assistants (Google Home & Alexa) and other third-party devices.
- It is produced in two versions:
 - a) eLAN-RF-103: LAN communication
- It communicates from up to 70 iNELS Wireless elements, processes set programs for automatic control.
- Thanks to two-way communication, it displays the current status of individual elements.
- Powered by 5 V DC/2 A adapter, USB-C connector (included).
- Configuration is done via the iHC application.
- The package includes an internal antenna AN-I, in case the Smart Wireless gate is located in a metal switchboard, you can use the external antenna AN-E for better signal reception, see accessories on p. 76. For the eLAN-RF-Wi-103 version.
- Supports the MQTT protocol, which enables two-way communication between the eLAN-RF-103 and therefore also with the entire iNELS Wireless system with platforms such as Home Assistant, HomeKit and other Smart Home and building management systems.

Device description



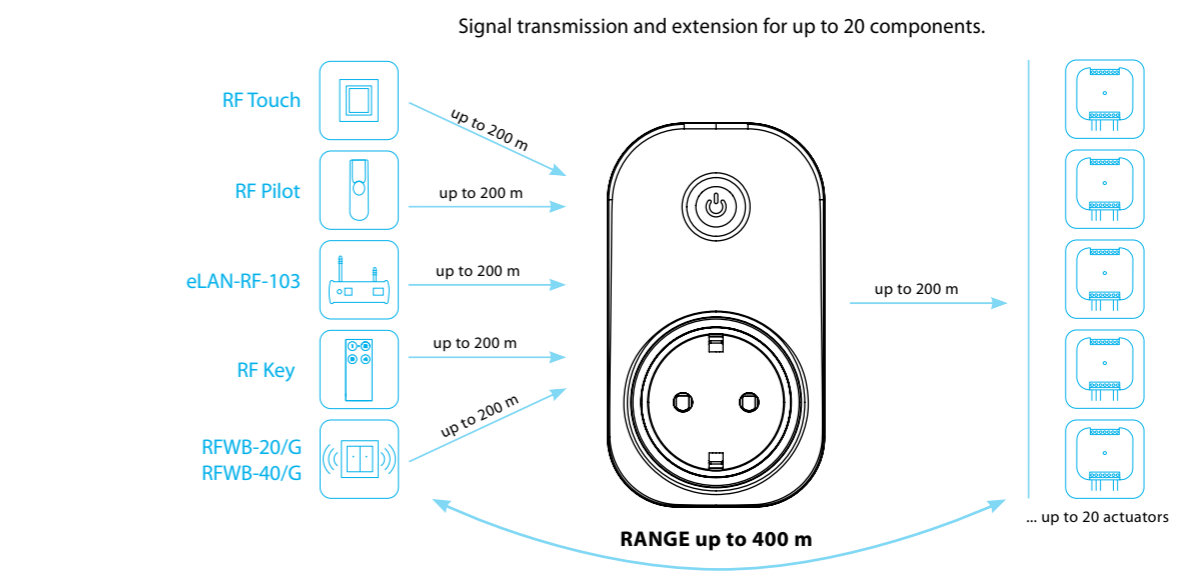
EAN code:
RFRP-20NN/Schuko: 8595188145473 RFRP-20NN/British: 8595188145480
RFRP-20NN/French: 8595188145107

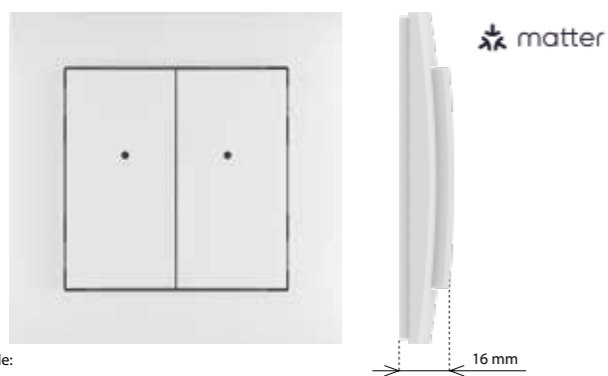
| Technical parameters | | RFRP-20N/230V |
|---------------------------|--|---------------|
| Supply voltage: | 230V | |
| Supply voltage frequency: | 50-60 Hz | |
| Apparent input: | 7 VA / cos φ = 0.1 | |
| Dissipated power: | 0.7 W | |
| Supply voltage tolerance: | +10%/-15% | |
| Control | | |
| Communication protocol: | RFIO2 | |
| Frequency: | 866–922 MHz (for more information see p. 85) | |
| Range: | in open space up to 200 m | |
| Minimum control distance: | 20 mm | |
| Programming: | button - green LED/red LED | |
| Other data | | |
| Operating temperature: | -20 to +55 °C | |
| Storage temperature: | -30 to +70 °C | |
| Mounting: | plug into a socket | |
| Protection: | IP20 Device | |
| Dimensions: | 63 x 110 x 74 mm | |
| Weight: | 115 g | |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 | |

Produced in 3 designs of sockets/plugs:



- The signal repeater is used to increase the range between the controller and the device by up to 200 meters.
- It is designed for signal transmission up to 20 components.
- Indications:
 - green LED - supply voltage,
 - red LED - active status (receiving and transmitting Wireless signal).
- Programming is done with the key.
- Thanks to the socket design, installation is simple by plugging it directly into the existing socket, the function of the through socket will be retained.

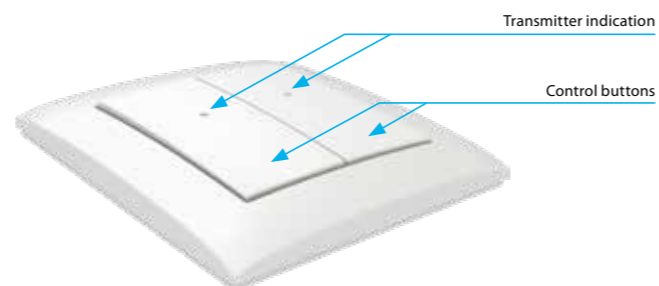




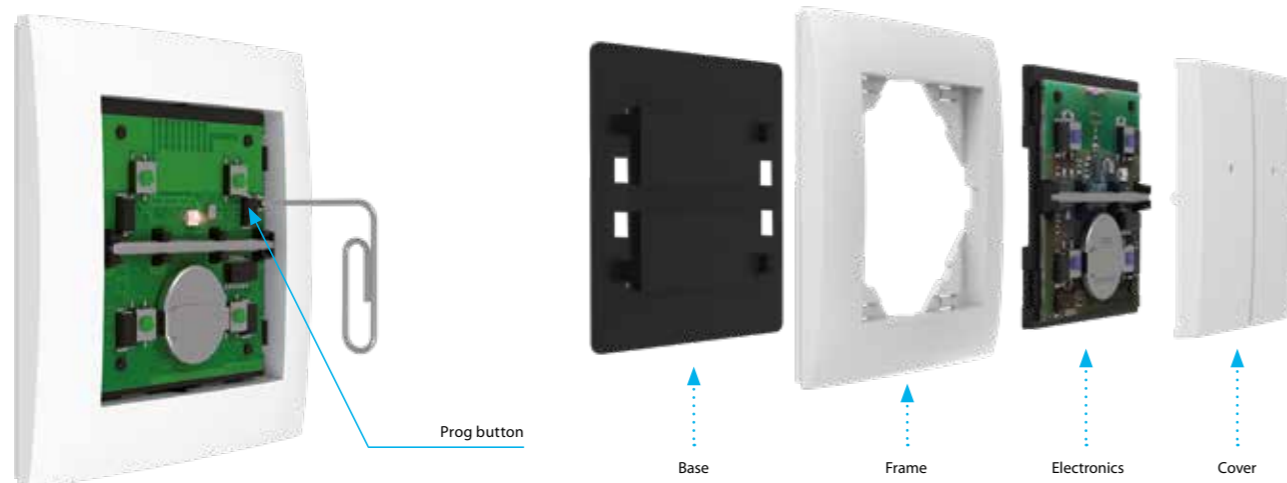
EAN code:
RFWB-40G/MT: 8595188189545

- The pushbutton type wall-mounted controllers are used to control switches and dimmers (of lights, barriers, gates, window shutters, etc.).
- It communicates on the Thread protocol that guarantees compatibility with other products with the Matter support.
- Its flat design with a flat base predestines it for quick installation on any surface (by sticking or screwing it onto a junction box).
- After a short pressing the pushbutton, it transmits the preset command (short pressing, long pressing).
- Transmission of the command is indicated by a red LED.
- Design of the LOGUS90 switch frames (plastics, glass, wood, metal, stone).
- Battery power supply (3V battery CR 2032 is included) with lifetime of approx. 2 years, depending on the frequency of use.
- The applicable reach is up to 200m (in free area).
- The element with the actuator can be paired through a border router supporting Matter and through an application supporting Matter. The border router is understood as equipment such as HomePod Mini, Google Nest Hub or Samsung SmartThings Station.

Device description



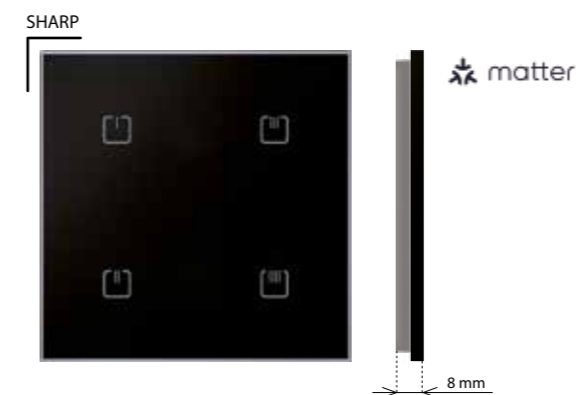
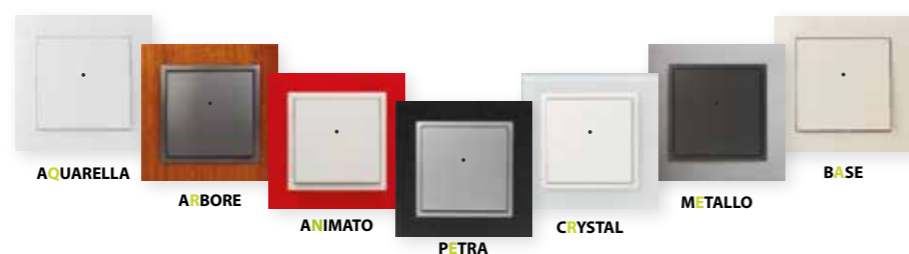
| Technical parameters | | RFWB-40G/MT |
|--------------------------------|--|--|
| Supply voltage: | | 3 V CR 2032 battery |
| Battery life: | | around 2 years based on frequency of use |
| Transmission indication: | | red LED |
| Number of buttons: | | 4 |
| Application protocol: | | Matter |
| Communication protocol: | | THREAD |
| Frequency: | | 2,4 GHz |
| Signal transmission method: | | MESH |
| Range: | | in open space up to 200 m |
| Other data | | |
| Operating temperature: | | -10 to +50 °C |
| Operating position: | | any |
| Mounting: | | glue/screws |
| Protection: | | IP20 |
| Contamination degree: | | 2 |
| Dimensions frame | | |
| - plastic: | | 85 x 85 x 16 mm |
| - metal, glass, wood, granite: | | 94 x 94 x 16 mm |
| Weight (plastic): | | 39 g |
| Related standards: | | EN 60730, EN 63044, EN 301489, EN 300328 |



LOGUS⁹⁰

Choose your own style

Flat wireless switches that can be mounted on glass, tile, furniture ...
Such a quick change of location when you're moving.

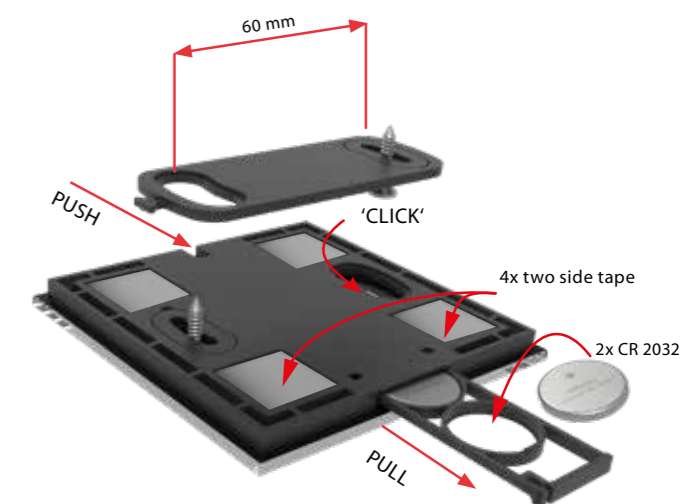
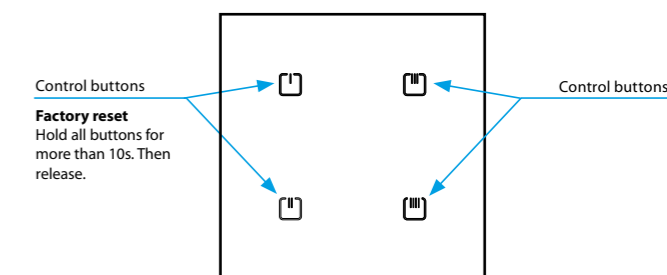


EAN code:
RFGB-40W/MT: 8595188189774
RFGB-40B/MT: 8595188189767

| Technical parameters | | RFGB-40B/MT, RFGB-40W/MT |
|-------------------------------|--|--|
| Supply voltage: | | 2x 3 V CR 2032 batteries |
| Battery life: | | around 2 years based on frequency of use |
| Transmission indication: | | red LED |
| Number of capacitive buttons: | | 4 |
| Application protocol: | | Matter |
| Communication protocol: | | THREAD |
| Frequency: | | 2.4 GHz |
| Signal transmission method: | | MESH |
| Range: | | in open space up to 200 m |
| Other data | | |
| Operating temperature: | | -10 to +50 °C |
| Operating position: | | any |
| Mounting: | | glue/screws |
| Protection: | | IP20 |
| Contamination degree: | | 2 |
| Dimensions: | | 94 x 94 x 8 mm |
| Weight: | | 101 g |
| Related standards: | | EN 60730, EN 63044, EN 301489, EN 300328 |

- Glass touch controller in an elegant black or white glass variant with a width of only 8 mm.
- Communicating on the Thread protocol, which guarantees compatibility with other Matter-enabled products.
- 4 capacitive buttons allow you to control 4 independent devices.
- After pressing the button, it sends the set command (short press, long press). Sending a command is indicated by a red LED.
- The flat mounting base allows installation with screws, double-sided tape or placement on the table.
- Battery power (2x 3 V batteries CR 2032 - part of the package) with a lifespan of approx. 2 years depending on the frequency of use.
- Range up to 200 m (in open space).
- The element with the actuator can be paired through a border router supporting Matter and through an application supporting Matter. The border router is understood as equipment such as HomePod Mini, Google Nest Hub or Samsung SmartThings Station.

Device description



Variants

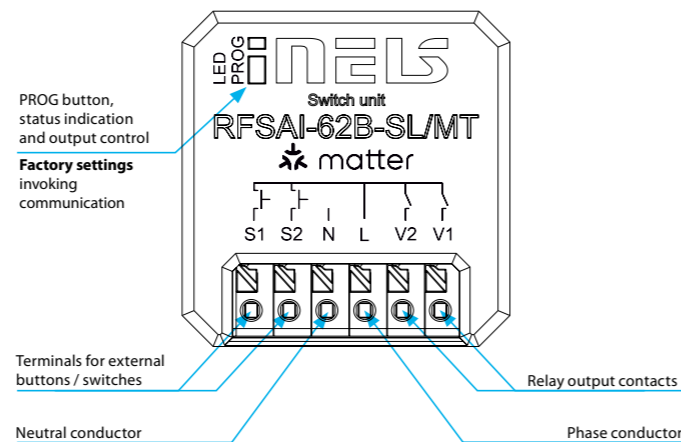




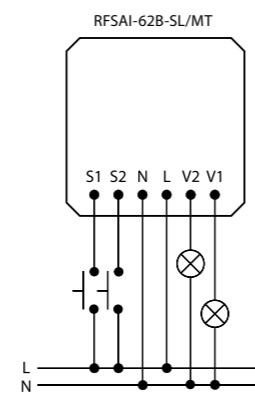
matter

- The switching element with two output relays can be used to control some appliances and lights.
- The Thread protocol guarantees compatibility with other products with the Matter support.
- The wireless controllers (RFGB-40/MT) and also the existing wired switches/pushbuttons can be used for control.
- The BOX-SL design offers installation directly in the junction box, soffit or cover of the controlled appliance. Easy connection of wires thanks to the screw-free terminals.
- The applicable reach is up to 200m (in free area).
- The maximum switched power is 2000W (8A), the relay contact material AgSnO2 + Zero Cross predestines it for switching of lighting loads.
- The reset pushbutton on the element can also be used as manual control of the input.
- The element with the controller can be paired through a border router supporting Matter and through an application supporting Matter. The border router is understood as equipment such as HomePod Mini, Google Nest Hub or Samsung SmartThings Station.

Device description



Connection



EAN code:
RFSAI-62B-SL/MT: 8595188189750

| Technical parameters | RFSAI-62B-SL/MT |
|--------------------------------|--|
| Supply voltage: | 230 V AC |
| Supply voltage frequency: | 50-60 Hz |
| Apparent input: | 7 VA / $\cos \varphi = 0.1$ |
| Dissipated power: | 0.7 W |
| Supply voltage tolerance: | +10%/-15% |
| Output | |
| Number of contacts: | 2x switching |
| Rated current: | 8 A / AC1 (in total) |
| Switching power: | 2000 VA / AC1 |
| Peak current: | 10 A / <3 s |
| Switching voltage: | 250 V AC1 |
| Mechanical service life: | 10 mill. |
| Electrical service life (AC1): | 100 thousand |
| Control | |
| Application protocol: | Matter |
| Communication protocol: | THREAD |
| Method of signal transmission | MESH |
| Frequency: | 2.4 GHz |
| Manual control: | button PROG (ON/OFF) |
| External button / switch: | yes, opposite the L terminal |
| Range: | in open space up to 200 m |
| Other data | |
| Operating temperature: | -15 to + 50 °C |
| Operating position: | any |
| Mounting: | free at lead-in wires |
| Protection: | IP40 |
| Overvoltage category: | III. |
| Contamination degree: | 2 |
| Connection: | screwless terminals |
| Connecting conductor: | 0.2-1.5 mm ² solid/fl exible |
| Dimensions: | 43 x 44 x 22 mm |
| Weight: | 36 g |
| Related standards: | EN 60730, EN 63044, EN 301489, EN 300328 |



matter

- Universal built-in dimmer is used to regulate light sources:
 - R – classic light bulbs,
 - L – halogen bulbs with wound transformer,
 - C – halogen bulbs with electronic transformer,
 - ESL – dimmable energy saving lamps,
 - LED – LED light sources (230 V).
- The Thread protocol guarantees compatibility with other products with the Matter support.
- Control input "S" for connection of the existing wired pushbutton.
- The programming pushbutton on the element can also be used as manual control of the output.
- The applicable reach is up to 200m (in free area).
- The BOX design offers installation directly in the junction box, soffit or cover of the light fitting.
- The element with the controller can be paired through a border router supporting Matter and through an application supporting Matter. The border router is understood as equipment such as HomePod Mini, Google Nest Hub or Samsung SmartThings Station.

EAN code:
RFDEL-71B-SL: 8595188189552

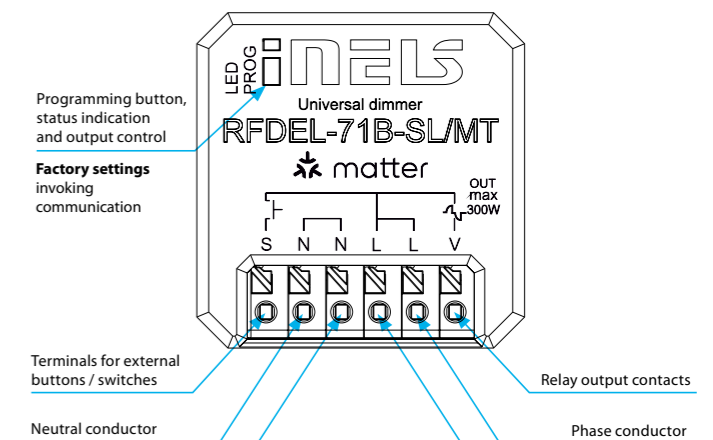
| Technical parameters | RFDEL-71B-SL/MT |
|-----------------------------|--|
| Supply voltage: | 230 V AC / 50 Hz |
| Supply voltage frequency: | 50-60 Hz |
| Apparent power: | 5 VA / $\cos \varphi = 0.1$ |
| Dissipated power: | 0.5 W |
| Supply voltage tolerance: | +10/-15% |
| Connection: | 4-wire, with "NEUTRAL" |
| Output | |
| Dimmed load: | R, L, C, LED, ESL |
| Contactless: | 2 x MOSFET |
| Load capacity:* | max. 300 W* |
| Control | |
| Application protocol: | Matter |
| Communication protocol: | THREAD |
| Signal transmission method: | MESH |
| Frequency: | 2.4 GHz |
| Range: | up to 200 m |
| Manual control: | button PROG (ON/OFF) |
| External button / switch: | yes |
| Other data | |
| Operating temperature: | -15 to + 45 °C |
| Working position: | any |
| Mounting: | free at lead-in wires |
| Protection: | IP40 |
| Overvoltage category: | III. |
| Contamination degree: | 2 |
| Connection: | screwless terminals |
| Connecting conductor: | 0.2-1.5 mm ² solid/flexible |
| Dimensions: | 43 x 44 x 22 mm |
| Weight: | 30 g |
| Related standards: | EN 60730, EN 63044, EN 301489, EN 300328 |

The given value is for load R, see table p. 70

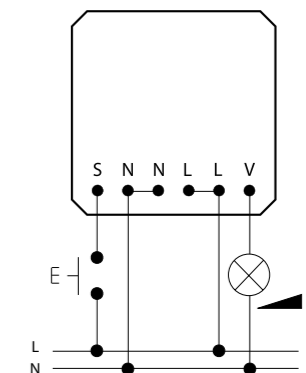
Types of connectable loads

| | | | | |
|----------------|----------------|-----------------|--------------------|--------------------|
| | | | | |
| R resistive | L inductive | C capacitive | ESL light bulbs | LED light bulbs |

Device description



Connection

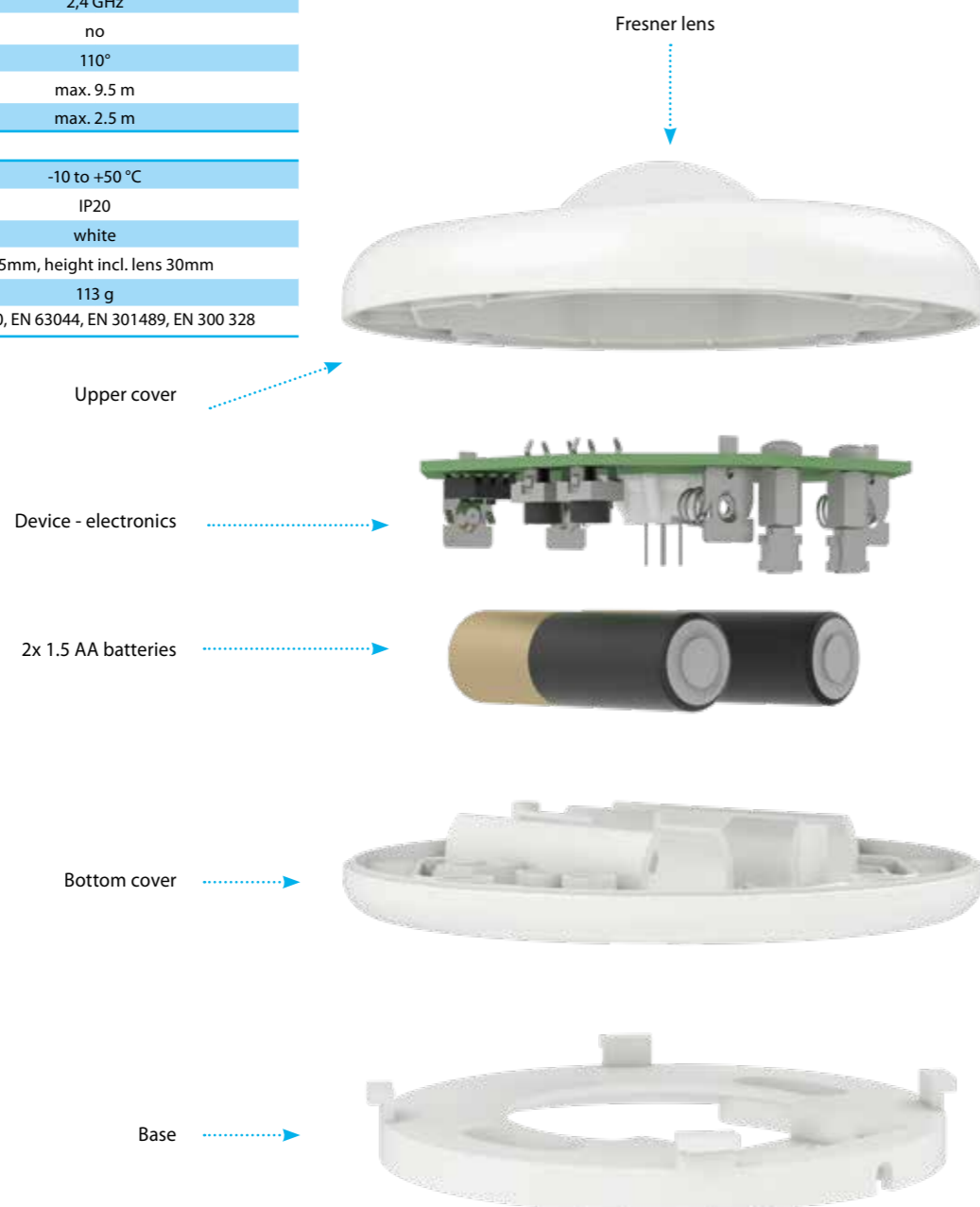




EAN code:
RFMD-200: 8595188191302

- The motion detector PIR is used to detect presence persons moving inside the building interior
- The Thread protocol guarantees compatibility with other products with the Matter support.
- Use:
 - in combination with a switching unit for automatic control of lighting or triggering an alarm
 - through the border router Matter, the detection can be displayed on your smartphone in the form of a notification
- Sensitivity settings of the PIR detector for eliminating unwanted triggering
- Power supply: 2x 1.5 V AA batteries, the battery life is around 1 year
- "Low Battery" Alerts by double LED flashing or on Matter app
- The Unit with the controller can be paired through a border router supporting Matter and through an application supporting Matter. The border router is understood as equipment such as HomePod Mini, Google Nest Hub or Samsung SmartThings Station.

| Technical parameters | RFMD-200/MT |
|-----------------------------|--|
| Power supply: | 2x 1.5 V AA batteries |
| Battery life: | up to 1 year, according to the number of activations |
| Drained battery indicator: | yes |
| Control | |
| Application protokol: | Matter |
| Communication protocol: | THREAD |
| Frequency: | 2,4 GHz |
| Repeater function: | no |
| Detection angle: | 110° |
| Detection distance: | max. 9.5 m |
| Recommended working height: | max. 2.5 m |
| Other data | |
| Working temperature: | -10 to +50 °C |
| Protection: | IP20 |
| Colour: | white |
| Dimension: | ø 95mm, height incl. lens 30mm |
| Weight: | 113 g |
| Related standards: | EN 60730, EN 63044, EN 301489, EN 300 328 |



EAN code:
RFMD-100: 8595188189538

- The Window/Door detector is used to detect opening where activation occurs when the magnet and the sensor become separated
- It communicates on the Thread protocol that guarantees compatibility with other products with the Matter support
- Use:
 - in combination with the switching unit for automatic light control (cellar, garage, etc.)
 - by means of the Matter application, detection can be displayed on your smart phone in the form of a notification
- Power supply: 1x 3 V CR 2032 battery, the battery life is around 1 year
- Display of battery percentage in the form of Matter Application
- The pairing of the detector with the element is done via a border router supporting Matter and via a Matter-enabled application. Border router means a device such as a HomePod Mini, Google Nest Hub or Samsung SmartThings Station.

| Technical parameters | RFWD-100/MT |
|----------------------------|--|
| Power supply: | 1x 3 V CR 2032 battery |
| Battery life: | up to 1 year, according to the number of activations |
| Drained battery indicator: | yes |
| Control | |
| Application protocol: | Matter |
| Communication protocol: | THREAD |
| Frequency: | 2,4 GHz |
| Detection angle: | 105° |
| Other data | |
| Working temperature: | -10 to +50 °C |
| Protection: | IP20 |
| Colour: | white |
| Dimension: | 25 x 75 x 16 mm |
| Magnet dimension: | 15 x 75 x 14 mm |
| Standards: | EN 60730, EN 63044, EN 301489, EN 300328 |

Lined writing area for notes.

Hotel Room Energy Saving Kit (HRESK)

Cost savings, increased comfort,
introduction of automation into a hotel room



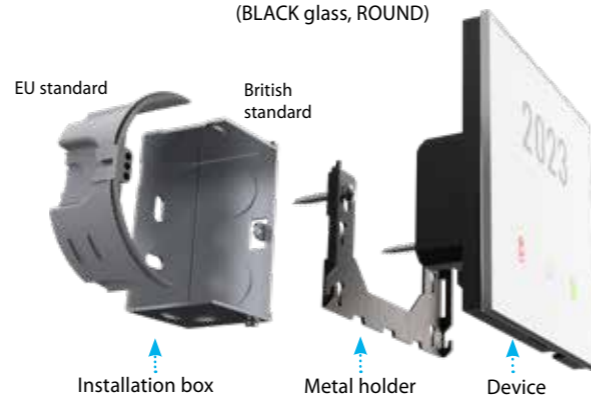
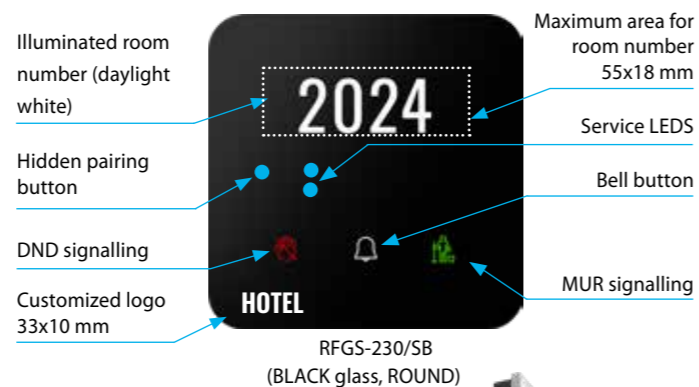
N



- In connection with the RFSW-xx/S room unit (or RFTC-3 thermostat), it is used to signal the status of MUR (green LED) and DND (red LED)
- Also includes button for controlling a room bell connected to the switched output of this unit or any iNELS Wireless switching element. The button bell has 2 colors of backlighting (explained below)
- The second switched output of this unit can be used to switch the in front door light and control it from the schedule HRS system, by time or ambient light intensity
- The unit can be mounted in an installation box, for example replace the original bell button or light switch, only requires a 230V AC or AC/DC 24 V power supply. Communication is then wireless
- The unit can be controlled by up to 4 rooms units (RFSW-xx/S or RFTC-3)
- Setup and programming is done by a pairing button + signaled by service LEDs
- The unit can be connected to the HRS (Hotel Reception Software) via the eLAN-RF gateway or the RFTC-3 thermostat. The functions can then be controlled from the reception PC console or the iNELS application.
- Standard glass colour white/black, room number and hotel logo can be defined when ordering
- Available with AC 230V or AC/DC 24V power supply with the option of galvanically isolated relay output contacts from the power supply (see table on the next page and connection below)

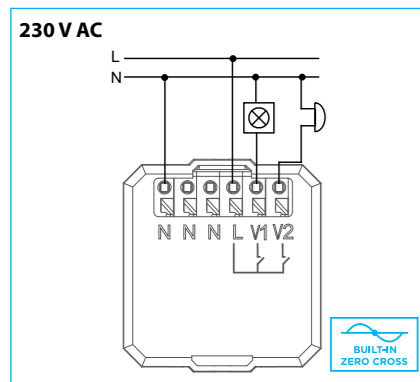
| Technical parameters | | RFGS-30/S |
|----------------------------|--|--------------|
| Supply voltage: | 230 V AC / 50-60 Hz | 24 V AC / DC |
| Apparent/loss power input: | 1.2 VA/0.6 W | 0.6 VA/0.6 W |
| Supply voltage tolerance: | ±10 % | |
| Output | | |
| Relays capacity: | 2x switching / 8 A / 250 V AC1 / 2000 VA / ZERO CROSS | |
| Peak Current: | I _{peak} < 110A 300us / max. input capacitance 125 uF | |
| Contact Life: | mechanical 10 mil. / electrical 100,000 cycles | |
| Control | | |
| Control items: | 1 button / 1DND / 1MUR | |
| Communication: | wireless, iNELS RFIO2 protocol | |
| Frequency: | 866-922 MHz (more on page 85) | |
| Repeater Function: | yes | |
| Range: | in open areas up to 200 m | |
| Connection | | |
| Terminal block: | screwless - push in | |
| Wire gauge: | 0.2 - 1.5 mm ² solid flexible | |
| Other data | | |
| Operating Temperature: | -10 to +50 °C | |
| Storage temperature: | -30 to +70 °C | |
| Protection degree: | front IP60 / rear IP20 | |
| Overvoltage Category: | II. | |
| Pollution Degree: | 2 | |
| Working position: | Any | |
| Installation: | flush mount to the installation box, BS or EU standard | |
| Dimension: | Sharp: 94 x 94 x 39 mm / Round: 100 x 100 x 39 mm | |
| Weight: | Sharp: 131 g / Round: 138 g | |
| Related standards: | EN 60730, EN 63044, EN 301489, EN 300 220 | |

Instrument description

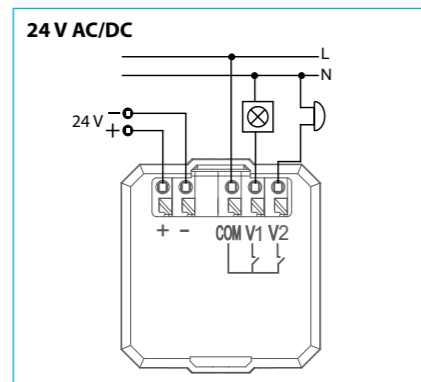


BUILT-IN ZERO CROSS
Output relays are equipped with ZERO CROSS technology, which allows switching the load when the voltage passes zero, i.e. in the minimum current consumption, which prevents burning and sticking of relay contacts - especially when switching electronic ballasts, which are part of each LED luminaire.

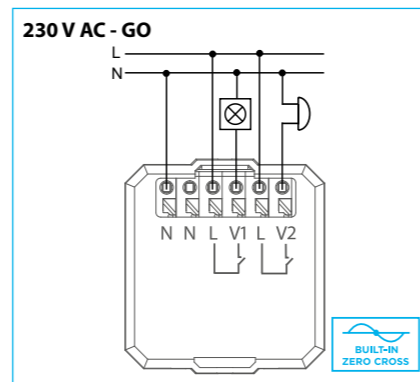
Connection



The output contacts (V1, V2) switch the phase potential (L) and are equipped with **zero cross** switching technology



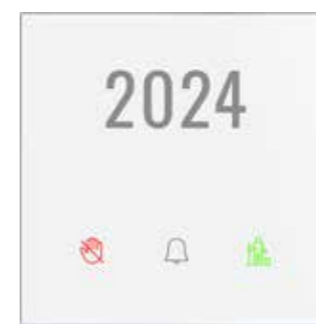
The output contacts (V1, V2) are galvanically isolated from the power supply and share a common COM terminal



The output contacts (V1, V2) are galvanically isolated from the power supply and each has its own COM terminal. However, they must be connected to the same phase



RFGS-230/SW
(WHITE glass, ROUND)



RFGS-30/SW
(WHITE glass, SHARP)

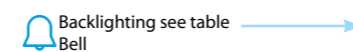


RFGS-230/SB
(BLACK glass, ROUND)



RFGS-30/SB
(BLACK glass, SHARP)

Button legend

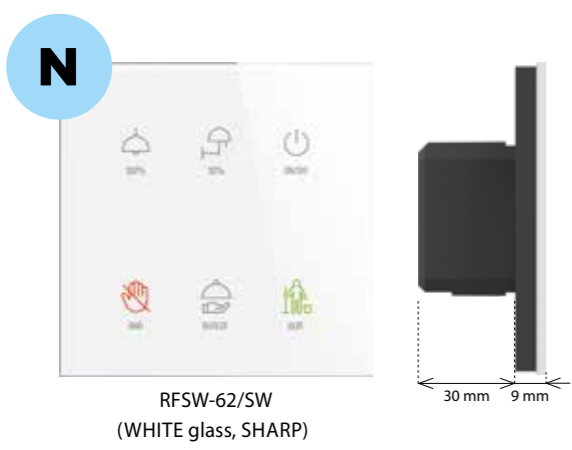


BELL button backlight meaning

| Symbol | Colour | Room | Ring |
|--------|-----------------|--------------------------------|------|
| | White | vacant | YES |
| | Blue | occupied | YES |
| | Blue+DND active | occupied, but „Do not disturb“ | NO |

Icons are illustrative - configure your own look using the configurator: icons.inels.com

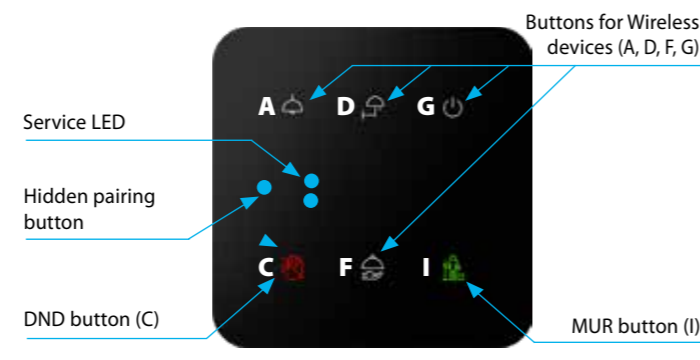
| Type | Number of buttons | Design ROUND SHARP | Glass colour | Power supply | Galvanically isolated output contact | EAN | Code |
|--------------------|-------------------|--------------------|--------------|--------------|--------------------------------------|---------------|------|
| RFGS-30/SW/230V | 1 | S | White | AC 230 V | - | 8595188189477 | 8947 |
| RFGS-230/SW/230V | 1 | R | White | AC 230 V | - | 8595188192712 | 9271 |
| RFGS-30/SB/230V | 1 | S | Black | AC 230 V | - | 8595188189200 | 8920 |
| RFGS-230/SB/230V | 1 | R | Black | AC 230 V | - | 8595188192705 | 9270 |
| RFGS-30/SW/24V | 1 | S | White | AC/DC 24 V | ✓ | 8595188191586 | 9158 |
| RFGS-230/SW/24V | 1 | R | White | AC/DC 24 V | ✓ | 8595188192736 | 9273 |
| RFGS-30/SB/24V | 1 | S | Black | AC/DC 24 V | ✓ | 8595188191579 | 9157 |
| RFGS-230/SB/24V | 1 | R | Black | AC/DC 24 V | ✓ | 8595188192729 | 9272 |
| RFGS-30/SWGO/230V | 1 | S | White | AC 230 V | ✓ | 8595188192675 | 9267 |
| RFGS-230/SWGO/230V | 1 | R | White | AC 230 V | ✓ | 8595188192699 | 9269 |
| RFGS-30/SBGO/230V | 1 | S | Black | AC 230 V | ✓ | 8595188192668 | 9266 |
| RFGS-230/SBGO/230V | 1 | R | Black | AC 230 V | ✓ | 8595188192682 | 9268 |



- The wireless glass remote control with symbols is used for:
 - Control of iNELS Wireless elements
 - MUR/DND control of RFGS-30/S front door unit
 - Switching of 2x light circuits by built-in relays
- MUR (Make Up Room, green LED) and DND (Do not Disturb, red LED) buttons are interlocked
- Butler button calls hotel service (set in HRS)
- The top buttons can be freely defined to control local outputs of the unit or any iNELS Wireless element located in the room (switching, dimming, shading)
- Setup and programming is done by pairing button + signaling by service LEDs
- The unit can be connected to the HRS (Hotel Reception Software) system via eLAN-RF gateway or RFTC-3 thermostat. The functions can then be controlled from the reception PC console or the iNELS application of the phone.
- Standard glass colour white/black, buttons and descriptions at the top - or hotel logo when ordering
- Available with AC 230V or AC/DC 24V power supply with the option of galvanically isolated relay output contacts from the power supply (see table on the next page and connection below)

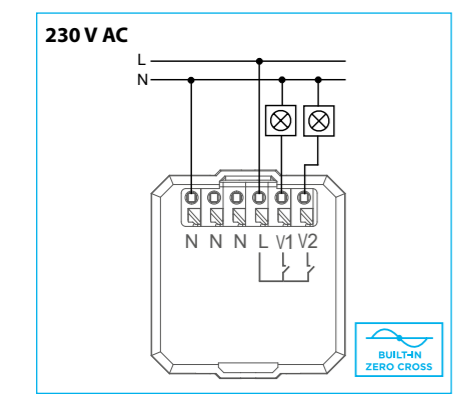
| Technical parameters | | RFSW-xx/S |
|----------------------------|---|--------------|
| Supply voltage: | 230 V AC / 50-60 Hz | 24 V AC/DC |
| Apparent/loss power input: | 1.2 VA/0.6 W | 0.6 VA/0.6 W |
| Supply voltage tolerance: | ±10 % | |
| Output | | |
| Relay: | 2x switching / 8 A / 250 V AC1 / 2000 VA / ZERO CROSS | |
| Peak Current: | I _{peak} <110A 300us / max. input capacitance 125 uF | |
| Contact Life: | mechanical 10 mil. / electrical 100,000 cycles | |
| Control | | |
| Control items: | 2 or 4 buttons / 1DND / 1MUR | |
| Communication: | wireless, RFIO2 iNELS protocol | |
| Frequency: | 866-922 MHz (more on page 85) | |
| Repeater Function: | yes | |
| Range: | in open areas up to 200 m | |
| Connection | | |
| Terminal block: | screwless - push in | |
| Wire gauge: | 0.2 - 1.5 mm ² solid flexible | |
| Other data | | |
| Operating Temperature: | -10 to +50 °C | |
| Storage temperature: | -30 to +70 °C | |
| Protection degree: | front IP60 / rear IP20 | |
| Overvoltage Category: | II. | |
| Pollution Degree: | 2 | |
| Working position: | Any | |
| Installation: | flush mount to the installation box, BS or EU standard | |
| Dimension: | Sharp: 94 x 94 x 39 mm / Round: 100 x 100 x 39 mm | |
| Weight: | Sharp: 131 g / Round: 138 g | |
| Related standards: | EN 60730, EN 63044, EN 301489, EN 300 220 | |

Device description- Capital letters in brackets indicate the position of the buttons

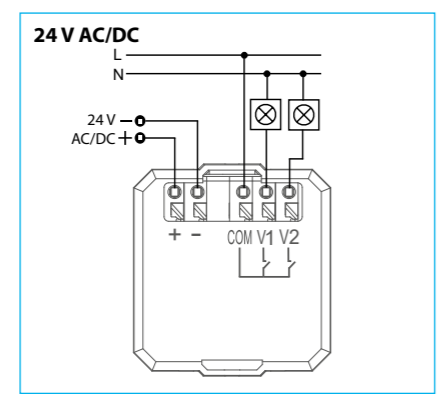


BUILT-IN ZERO CROSS Output relays are equipped with ZERO CROSS technology, which allows switching the load when the voltage passes zero, i.e. in the minimum current consumption, which prevents burning and sticking of relay contacts - especially when switching electronic ballasts, which are part of each LED luminaire.

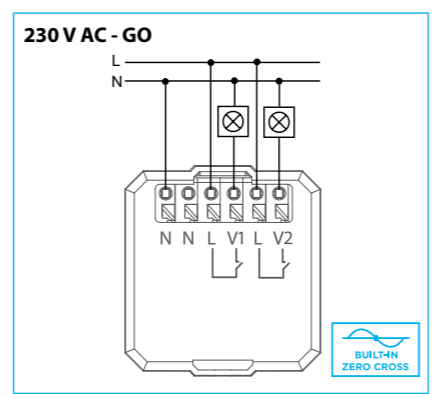
Connection



The output contacts (V1, V2) switch the phase potential (L) and are equipped with zero cross switching technology

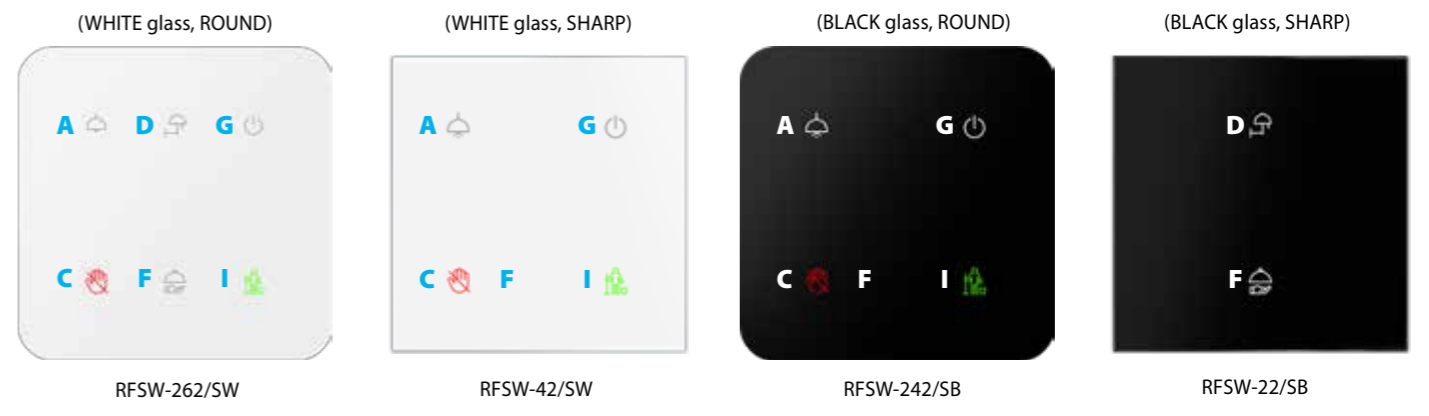


The output contacts (V1, V2) are galvanically isolated from the power supply and share a common COM terminal



The output contacts (V1, V2) are galvanically isolated from the power supply and each has its own COM terminal. However, they must be connected to the same phase

Button positions **C** and **I** are always reserved for controlling DND (red), MUR (green LED) and are mutually interlocked. Other button positions (**A, D, F, G**) are freely configurable for controlling local outputs or optional iNELS Wireless actuators.



Legend of buttons:

Icons are illustrative - configure your own look using the configurator: icons.inels.com

| Type | Number of buttons | Design ROUND SHARP | Glass colour | Power supply | Galvanically isolated output contact | EAN | Code |
|--------------------|-------------------|--------------------|--------------|--------------|--------------------------------------|---------------|------|
| RFSW-22/SW/230V | 2 | S | White | AC 230 V | - | 8595188193054 | 9305 |
| RFSW-42/SW/230V | 4 | S | White | AC 230 V | - | 8595188192897 | 9289 |
| RFSW-62/SW/230V | 6 | S | White | AC 230 V | - | 8595188189484 | 8948 |
| RFSW-222/SW/230V | 2 | R | White | AC 230 V | - | 8595188193078 | 9307 |
| RFSW-242/SW/230V | 4 | R | White | AC 230 V | - | 8595188192910 | 9291 |
| RFSW-262/SW/230V | 6 | R | White | AC 230 V | - | 8595188192750 | 9275 |
| RFSW-22/SB/230V | 2 | S | Black | AC 230 V | - | 8595188193047 | 9304 |
| RFSW-42/SB/230V | 4 | S | Black | AC 230 V | - | 8595188192880 | 9288 |
| RFSW-62/SB/230V | 6 | S | Black | AC 230 V | - | 8595188189255 | 8925 |
| RFSW-222/SB/230V | 2 | R | Black | AC 230 V | - | 8595188193061 | 9306 |
| RFSW-242/SB/230V | 4 | R | Black | AC 230 V | - | 8595188192903 | 9290 |
| RFSW-262/SB/230V | 6 | R | Black | AC 230 V | - | 8595188192743 | 9274 |
| RFSW-22/SW/24V | 2 | S | White | AC/DC 24 V | ✓ | 8595188193139 | 9313 |
| RFSW-42/SW/24V | 4 | S | White | AC/DC 24 V | ✓ | 8595188193016 | 9301 |
| RFSW-62/SW/24V | 6 | S | White | AC/DC 24 V | ✓ | 8595188191296 | 9129 |
| RFSW-222/SW/24V | 2 | R | White | AC/DC 24 V | ✓ | 8595188193153 | 9315 |
| RFSW-242/SW/24V | 4 | R | White | AC/DC 24 V | ✓ | 8595188193030 | 9303 |
| RFSW-262/SW/24V | 6 | R | White | AC/DC 24 V | ✓ | 8595188192774 | 9277 |
| RFSW-22/SB/24V | 2 | S | Black | AC/DC 24 V | ✓ | 8595188193122 | 9312 |
| RFSW-42/SB/24V | 4 | S | Black | AC/DC 24 V | ✓ | 8595188193009 | 9300 |
| RFSW-62/SB/24V | 6 | S | Black | AC/DC 24 V | ✓ | 8595188191289 | 9128 |
| RFSW-222/SB/24V | 2 | R | Black | AC/DC 24 V | ✓ | 8595188193146 | 9314 |
| RFSW-242/SB/24V | 4 | R | Black | AC/DC 24 V | ✓ | 8595188193023 | 9302 |
| RFSW-262/SB/24V | 6 | R | Black | AC/DC 24 V | ✓ | 8595188192767 | 9276 |
| RFSW-22/SWGO/230V | 2 | S | White | AC 230 V | ✓ | 8595188193092 | 9309 |
| RFSW-42/SWGO/230V | 4 | S | White | AC 230 V | ✓ | 8595188192972 | 9297 |
| RFSW-62/SWGO/230V | 6 | S | White | AC 230 V | ✓ | 8595188192637 | 9263 |
| RFSW-222/SWGO/230V | 2 | R | White | AC 230 V | ✓ | 8595188193115 | 9311 |
| RFSW-242/SWGO/230V | 4 | R | White | AC 230 V | ✓ | 8595188192996 | 9299 |
| RFSW-262/SWGO/230V | 6 | R | White | AC 230 V | ✓ | 8595188192651 | 9265 |
| RFSW-22/SBGO/230V | 2 | S | Black | AC 230 V | ✓ | 8595188193085 | 9308 |
| RFSW-42/SBGO/230V | 4 | S | Black | AC 230 V | ✓ | 8595188192965 | 9296 |
| RFSW-62/SBGO/230V | 6 | S | Black | AC 230 V | ✓ | 8595188192620 | 9262 |
| RFSW-222/SBGO/230V | 2 | R | Black | AC 230 V | ✓ | 8595188193108 | 9310 |
| RFSW-242/SBGO/230V | 4 | R | Black | AC 230 V | ✓ | 8595188192989 | 9298 |
| RFSW-262/SBGO/230V | 6 | R | Black | AC 230 V | ✓ | 8595188192644 | 9264 |

N

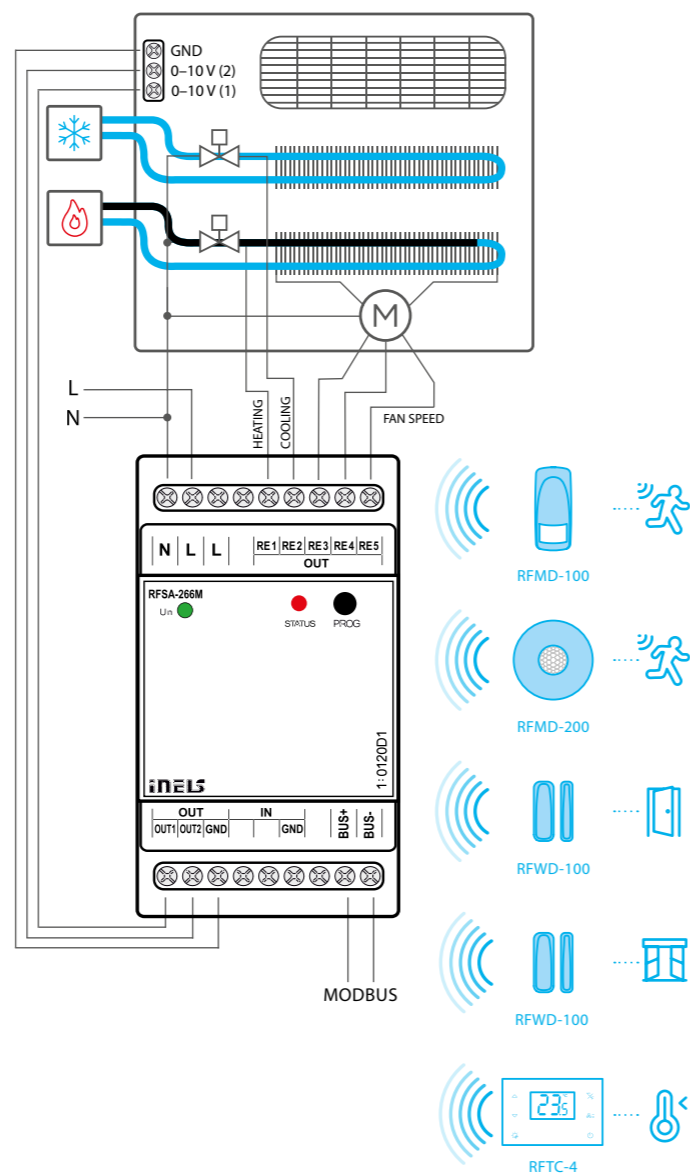


EAN code:
RFSA-266M: 8595188189781

| Technical parameters | | RFSA-266M/230V |
|-----------------------------------|--|---|
| Supply voltage: | | 110–230 V AC |
| Supply voltage frequency: | | 50–60 Hz |
| Apparent input: | | min. 2 VA/max. 5 VA |
| Dissipated power: | | min. 0.5 W/max. 2.5 W |
| Supply voltage tolerance: | | +10%/-25 % |
| Output | | |
| Number of contacts: | | 5x switching (AgSnO ₂) / 7 A/AC1 / 10 A/<3 s |
| Switching power: | | 1750 VA/AC1 |
| Switching voltage: | | 250 V AC1 |
| Mech. / el. service life (AC1): | | 5x 10 ⁶ / 6x10 ⁴ |
| Analog output | | 2x 0 – 10V (OUT1, OUT2) |
| Input | | |
| Analog | | YES, 2x terminals INT1/GND, INT2/GND / 2x NTC 12 ICR (TC/TZ sensor) |
| Control | | YES, terminals IN1/GND, IN2/GND |
| Communication protocol: | | RFIO2, MODBUS, WIFI, MQTT |
| Frequency: | | 866–922 MHz (for more info see p. 85) |
| Repeater function: | | yes |
| Range: | | in open space up to 160 m - RFSA-66MI |
| Other data | | |
| Operating temperature: | | -15 °C to +50 °C |
| Operating position: | | any |
| Mounting: | | DIN rail EN 60715 |
| Protection: | | IP20 from the front panel |
| Overvoltage category: | | III. |
| Contamination degree: | | 2 |
| Connecting conductor | | max. 1x 2.5, max. 2x 1.5/ with a hollow max. 1x 2.5 |
| cross-section (mm ²): | | |
| Dimensions: | | 90 x 52 x 65 mm |
| Weight: | | 264 g |
| Related standards: | | EN 60730, EN 63044, EN 300 220, EN 301 489 |

- Thanks to the 5-channel design of the switching component it can control the heating/cooling mode and 3 speed levels.
- The RFSA-266M wireless switch unit can be combined with the RFTC-4.
- The input channels are used to connect to external TC/TZ temperature sensor.
- The product is independently functional when connected to the MODBUS, otherwise it must be connected to control element, e.g. RFTC-4.
- Support for both 2-pipe fancoil and 4-pipe fancoil.
- Fancoil controls the cooling or heating of the room and provides up to 3 speed levels.
- In case of insufficient signal between the controller and the switch unit, use the signal repeater RFRP-20N or elements with RFIO2 protocol that support this function.

Connection for fancoil control



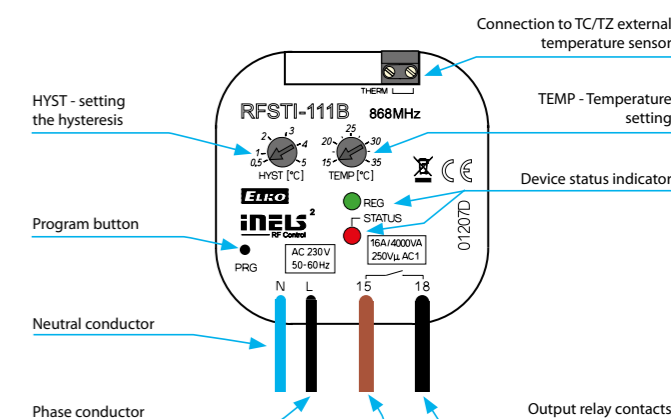
EAN code:
RFSTI-111B: 8595188149150

| Technical parameters | | RFSTI-111B/230V | RFSTI-111B/120V |
|---|--|---|-----------------|
| Supply voltage: | | 230 V AC | 120 V AC |
| Supply voltage frequency: | | 50–60 Hz | 60 Hz |
| Apparent input: | | 9 VA/cos φ=0.1 | 9 VA/cos φ=0.1. |
| Dissipated power: | | 0.7 W | |
| Supply voltage tolerance: | | +10 %; -15 % | |
| Temperature measurement input: | | 1x external TZ/TC temperature sensor input \triangle | |
| Temp. measurement range | | +15 to +35 °C; | |
| and accuracy: | | 0.5 °C of the range | |
| Output | | | |
| Number of contacts: | | 1x switching (AgSnO ₂) | |
| Rated current: | | 12 A/AC1 | |
| Switching power: | | 3000 VA/AC1, 288 W/DC | |
| Peak current: | | 30 A/max. 4 s at 10% | |
| Switching voltage: | | 250 V AC1/24 V DC | |
| Min. switching power: | | 100 mA/10 V | |
| Insulation voltage between relay outputs and internal circuits: | | basic insulation (Cat. III surges by EN 60664-1) | |
| Isolates. voltage open relay contact: | | 1 kV | |
| Mechanical service life: | | 3x10 ⁷ | |
| Electrical service life (AC1): | | 5x10 ⁴ | |
| Control | | | |
| Communication protocol: | | RFIO2 | |
| Frequency: | | 866–922 MHz (for more information see p. 85) | |
| Repeater function: | | yes | |
| Range: | | in open space up to 160 m | |
| Other data | | | |
| Operating temperature: | | -15 to +50 °C | |
| Storage temperature: | | -30 to +70 °C | |
| Indication of relay switch: | | red LED | |
| Indication regulation: | | green LED | |
| Operating position: | | any | |
| Mounting: | | free at lead-in wires | |
| Protection: | | IP30 | |
| Overvoltage category: | | III. | |
| Contamination degree: | | 2 | |
| Outlets (CY wire, cross-section, length): | | 2 x 0.75 mm ² , 2 x 2.5 mm ² , 90 mm | |
| Dimensions: | | 49 x 49 x 21 mm | |
| Weight: | | 50 g | |
| Related standards: | | EN 60730, EN 63044, EN 301489, EN 300 220 | |

\triangle Temperature sensor input is at the supply voltage potential.

- The component measures temperature in the range of 15 to 35 °C with external sensor and on the basis of the set temperature switches air conditioning.
- It is particularly suitable for hotel rooms.
- With the Window/Door sensor programmed, when the window/door is opened, the device relay contact is automatically disconnected, there by saving unnecessary energy consumed for cooling when the window/door is open.
- It enables connection of the switched load up to 12 A (3000 VA).
- Up to 4 RFWD-100 detectors can be connected to one RFSTI-111B device.
- Range up to 160 m (in open space), if the signal is insufficient between the controller and unit, use the signal repeater RFRP-20N or protocol component RFIO2 that support this feature.
- The BOX design lets you mount it right in an installation box, a ceiling or controlled appliance cover.
- External sensor TC (-20 to +80 °C) or TZ (-40 to +125 °C) for length of 3 m, 6 m, 12 m. For more information see „Accessories“ on page 45.

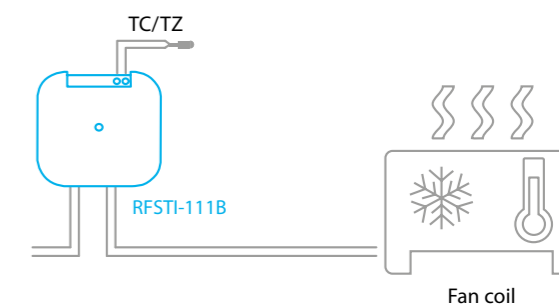
Device description



Function

The external sensor senses the temperature of the room, turns the air conditioner on and off according to the set temperature. Responds to commands from the detector - when you open the window, turn off air conditioning.

Connection





Accessories

AN-I | Internal antenna



EAN code:
AN-I: 8595188161862

| Technical parameters | AN-I |
|----------------------|------------------|
| Polarization: | vertical |
| Gain: | 2.1 dBi |
| Dimensions: | 17 x 44 x 8.5 mm |
| Impedance: | 50 Ω |
| Colour: | black |

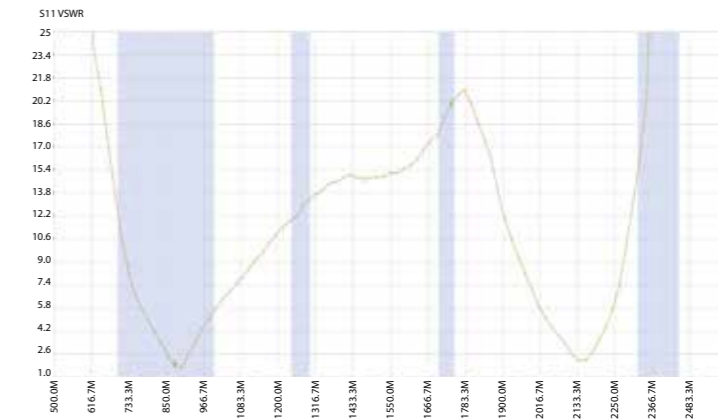
The rod antenna with SMA connector is supplied as standard with the product.

Extension cable for external antenna



10 m

AN-I antenna measurement graph



- The internal antenna is included in the standard package.

Technical parameters

| | |
|-----------------|-------------------|
| Connector Type: | SMA (male/female) |
| Colour: | white |
| Cable Length: | 10 m |

Measured range between controllers and RFSA-66M

| | RFGB | RFWB | RF KEY |
|--------------|-------|-------|--------|
| AN-I | 305 m | 290 m | 190 m |
| AN-E | 300 m | 290 m | 200 m |
| AN-E3 | 275 m | 260 m | 180 m |

The range is measured with direct visibility between the RFGB-x, RFWB-x, RF KEY and RFSA-66M actuators.

Connecting the antenna extension cable does not affect the range.

RFAF/USB | Service Key

| Technical parameters | RFAF/USB |
|-------------------------------------|--|
| Power: | max. 1 W |
| Interface: | USB 1.1 and higher, plug „A“ |
| Range: | 100 m |
| Min. distance of RF Touch-Actuator: | 1 m |
| Communication protocol: | RFIO2 |
| Frequency: | 866–922 MHz (for more information see p. 85) |
| Power supply indication: | green LED |
| communication indication: | red LED |
| Other data | |
| Operating temperature: | 0 to +55 °C |
| Storage temperature: | - 20 to +70 °C |
| Protection: | IP30 |
| Contamination degree: | 2 |
| Work space: | any |
| Installation: | any |
| Dimensions: | 22 x 85 x 15 mm |
| Weight: | 20 g |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 |



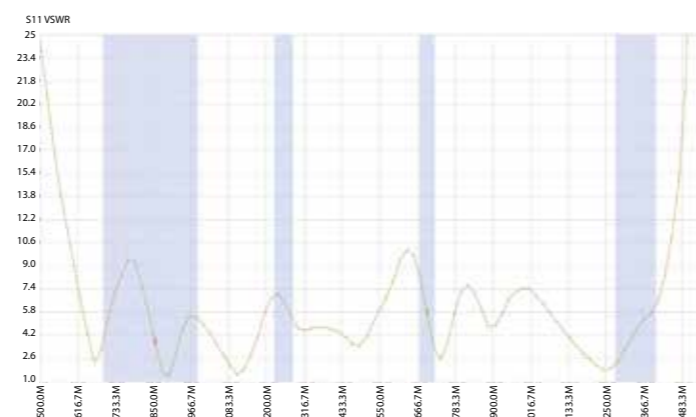
EAN code:
RFAF/USB: 8595188145039

- The RFAF/USB Service Key (in conjunction with the Wireless_analyzer) is designed for iNELS Wireless Control system partners and serves for:
 - Setting the repeater (signal amplifier) through the iNELS Wireless Control elements labeled as RFIO2. This option allows you to communicate over longer distances (in the order of 50 m) via existing iNELS Wireless elements in the installation (eliminating the use of the RFRP-20N repeater).
 - upgrade of firmware in the iNELS Wireless elements (labeled RFIO2), in the case of new firmware versions that improve the functionality of the elements on which we are constantly working.
 - The Wireless Network Analyzer will reliably analyze the communication between the controller (where you plan to place it) and the component in the installation. Indicates signal strength/quatty as well as possible frequencies that can interfere with communication.
 - SW Wireless analyzer can be found at inels.com/partners in section SW/FW Wireless Control

AN-E1 | External antenna



AN-E antenna measurement graph



EAN code:
AN-E1: 8595188190121

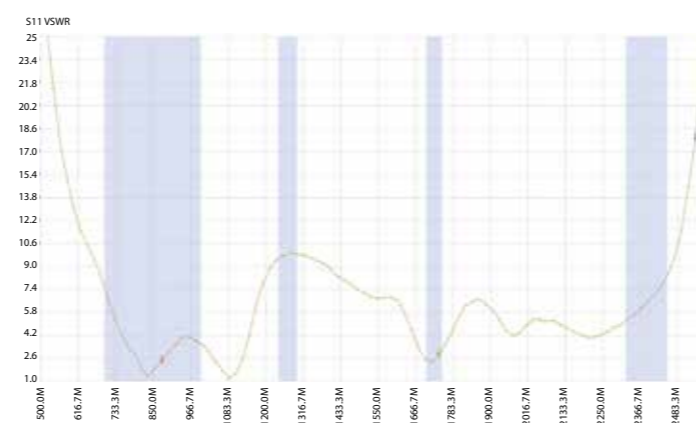
| Technical parameters | AN-E1 |
|----------------------|----------------|
| Mounting: | Magnetic Mount |
| Cable Length: | 3 m |
| Polarization: | vertical |
| Gain: | 5 dBi |
| Impedance: | 50 Ω |
| Colour: | black |
| Dimensions: | Ø 30 x 280 mm |

AN-E3 | External antenna



3 m

AN-E3 antenna measurement graph



EAN code:
AN-E3: 8595188190121

| Technical parameters | AN-E3 |
|----------------------|--------------|
| Cable Length: | 3 m |
| Polarization: | vertical |
| Gain: | 3 dBi |
| Impedance: | 50 Ω |
| Colour: | black |
| Dimensions: | Ø 50 x 88 mm |

- The external antenna is intended for outdoor use.

MS | Magnetic sensor



- The LED sensor scans LED impulses on the meter, which indicates consumption by flashing.
- The LED sensor is particularly suitable for power meters that support LED pulse sensing (the LED on the meter is marked "imp").
- The sensor's scanner is affixed with glue above the LED diode of the meter signaling indication of consumption.
- The sensor is connected to the internal terminal of the RFTM-1 converter.

| Technical parameters | MS |
|--|-----------------|
| Voltage range: | 1.6 to 3.6 V |
| Consumption: | 7uA * |
| Output load: | max. 3mA |
| Scanning period: | 100ms |
| Switch sensing sensitivity (output L): | ±(2.3 to 4.7)mT |
| Opening detection sensitivity (output->H): | ±(0.9 to 3.8)mT |
| Hysteresis: | 1mT |
| Working temperature: | -40 to 80 °C |
| Other data | |
| Cross-section of connecting wires: | max. 3.5 mm |
| Wire length: | 1.5 m |
| Protection: | IP20 |

LS | LED sensor



- The LED sensor scans LED impulses on the meter, which indicates consumption by flashing.
- The LED sensor is particularly suitable for power meters that support LED pulse sensing (the LED on the meter is marked "imp").
- The sensor's scanner is affixed with glue above the LED diode of the meter signaling indication of consumption.
- The sensor is connected to the internal terminal of the RFTM-1 converter.

| Technical parameters | LS |
|---|--------------|
| Voltage range: | 2.5 to 3.7V |
| Minimum consumption (idle mode): | 0.5uA * |
| Maximum power consumption (pulses 100Hz): | max. 2uA * |
| Working temperature: | -20 to 50 °C |
| Other data | |
| Cross-section of connecting wires: | max. 3.5 mm |
| Wire length: | 1.5 m |
| Protection: | IP20 |

Sensor LS responds only to light pulses, i.e. it does not detect static state LEDs.

WS | Magnetic sensor for water meter

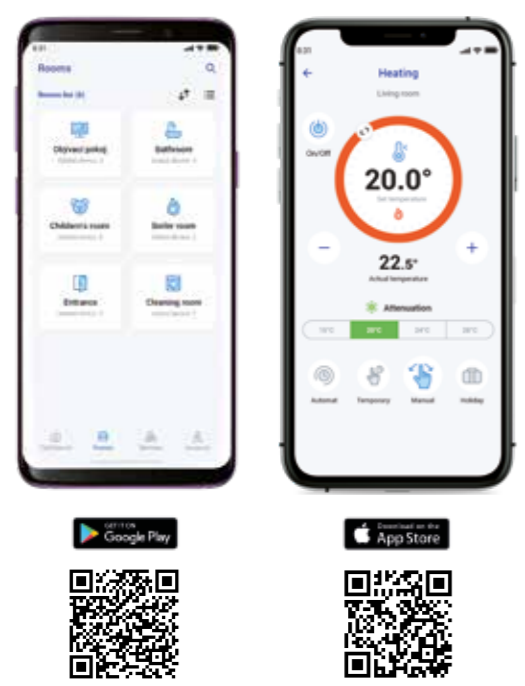


- A magnetic sensor that detects the pulse that is created by each rotation of the magnet placed on the unit dial meter.
- The WS sensor is especially suitable for water meters that support magnetic sensing.
- The sensing sensor is glued over the circular unit face of the gauge (the scanning dial is different from the other indicators, e.g. the white arrow wheel).
- The sensor is connected to the internal terminal of the RFTM-1 converter.

| Technical parameters | WS |
|------------------------------------|-----------------|
| Voltage range: | 1.65 to 5.5V |
| Consumption: | 1.5uA * |
| Output load: | max. 150uA |
| Switch sensing sensitivity: | ±(0.3 to 1.1)mT |
| Opening detection sensitivity: | ±(0.2 to 0.9)mT |
| Hysteresis: | 0.2mT |
| Working temperature: | -40 to 80 °C |
| Other data | |
| Cross-section of connecting wires: | max. 3.5 mm |
| Wire length: | 1.5 m |
| Protection: | IP20 |

* Measured at 3V, no load output.

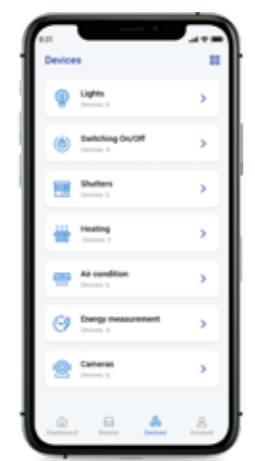
Smartphones



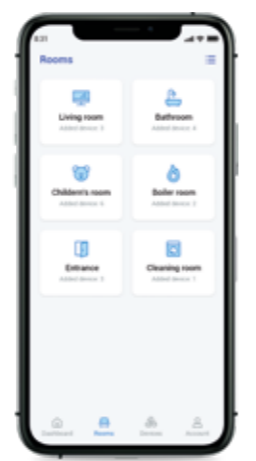
- Control application for smartphones and tablets with Android and iPhone operating systems - iHC-AiO. It allows you to easily control your house.
- The user-friendly and intuitive application environment offers central control from one place.
- The application enables control of the complete iNELS Wireless and BUS solution via the Smart RF gate, Connection server, Central unit and other supported third-party devices that are connected to the home Internet network.
- The application allows free remote control.
- IHC-AiO features:
 - unification of all iNELS devices under one application. Specifically, eLAN RF 003, eLAN RF 103, eLAN IR, CU3, CS and LARA
 - within BUS it is now possible to configure rooms without the need for a public server or CS
 - user management - in the application it will be possible to set rights for all users who will use one system
 - automation - creation of conditions within Wireless, BUS systems or in both systems
 - low battery notification, alarms, actuator status
 - history of states of individual actors
 - display of all added devices in a clear menu and the possibility of configuring your own dashboard.



Overview
Absolute control over the state of all technologies.



Device list
Control the device from anywhere.



Rooms management
Settings according to individual rooms.



Colour setting
Easy adjustment of the light scene with one touch - switching, dimming, colour.



Shutters/Blinds
Possibility of individual or joint control of shading technology.

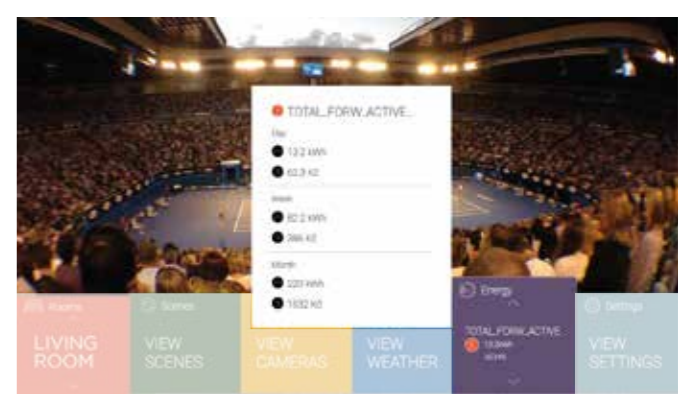
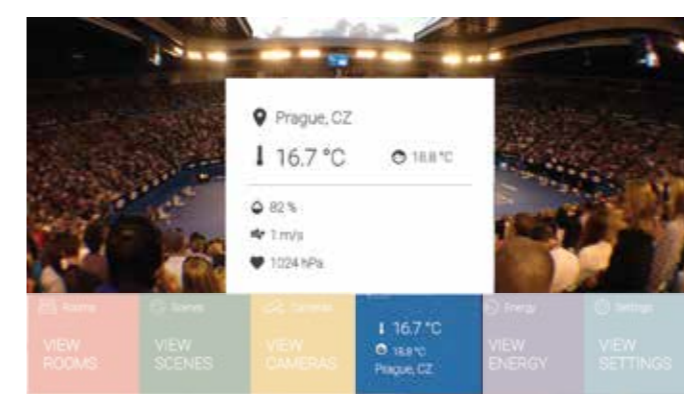
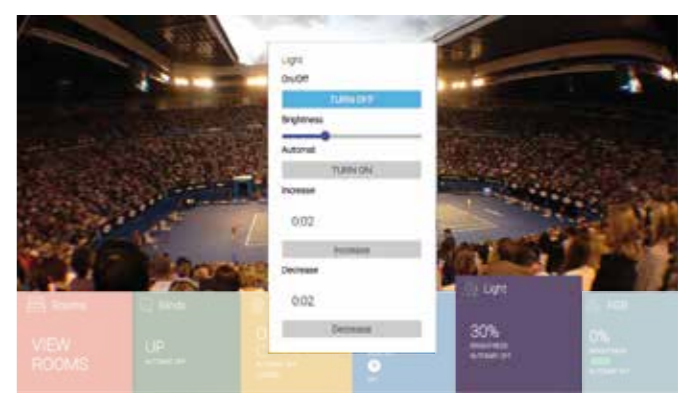
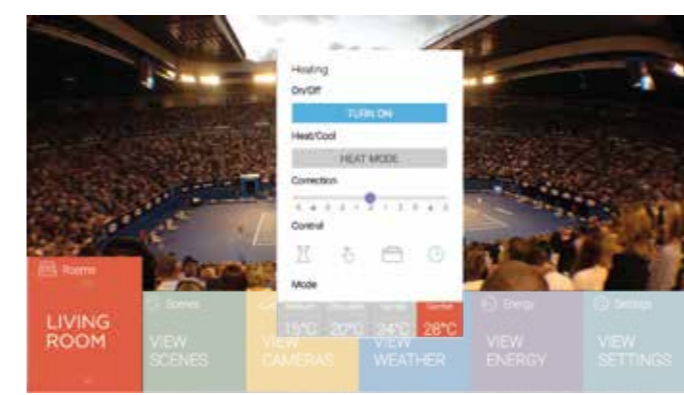
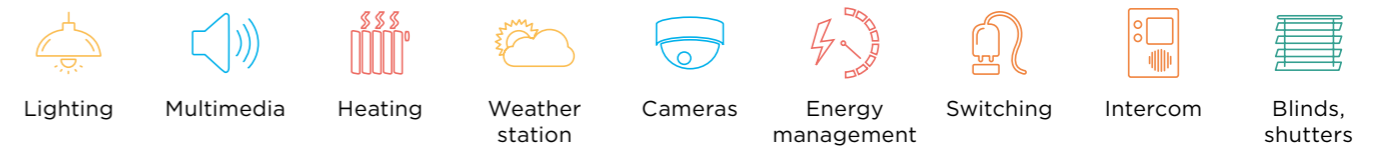


Temperature
You can set the temperature in each room exactly as you like.

Smart TV



- Device control via Smart TV is possible not only in the wireless installation of iNELS Wireless Control using the smart box eLAN-RF, but also in the case of wired option iNELS BUS using the Connection server. The iHC-SMTV app is free to download from the app store on your Smart TV.
- The control of app works with a classic TV remote control.
- Every Smart TV that has been manufactured since 2015 and supports OS Tizen is compatible.
- Functionality:
 - ON/OFF switching, with the possibility of time schedules
 - dimming ON/OFF, smooth brightening/dimming, color change
 - scenes
 - heating (temperature correction, heating mode change, cooling/heating mode)
 - cameras (image, or live stream if supported by web browser on Smart TV).
- iHC-SMTV (Smart TV App) is free and is not licensed in any way.
- Here you will find a link to the application:
Download:



Voice assistants

Amazon Alexa



- With Alexa Artificial Intelligence, you can simplify your daily life by setting an alarm, notifications, creating new items, or reminders in your calendar.
- The voice assistant can answer questions and control individual devices and smart homes.
- It is available on mobile phones, TVs, smart speakers and other devices.
- The voice assistant is designed to comfortably control the Wireless Control wiring by voice using your mobile phone or smart speaker.
- As a complement to Wireless Control, iNELS Smart Home Solution blends in with every modern home.
- Here you will find a link to the manual:



EN

Google Home



- Google Home can become a member of your smart home family.
- It communicates with the smart eLAN-RF box via the Cloud connection.
- This allows you to control, for example, the temperature setting or the light intensity by voice.
- The voice assistant is designed to conveniently control the Wireless Controlled electro-installations by voice using your mobile phone or smart speaker.
- As a complement to Wireless Control, iNELS Smart Home Solution blends in with every modern home.
- Here you will find a link to the manual:



EN



New mobile app for controlling all compatible elements from the iNELS portfolio.

Application iNELS:

- Designed for iOS 11+ and Android 7.0+.
- Optimized for devices with 1 024 x 768 screen resolution.
- The language of the application changes automatically according to the language set in Android/iOS.
- You can create a cloud account on the login screen in the app. The recommended minimum speed for connecting the eLAN-RF to the Cloud should be in the order of megabytes per second (3G - 1Mbit/s and higher).

Protocol and compatibility

The communication between the components is wireless at 866–922 MHz (according to country standards/regulations), using the unique RFIO and RFIO2 protocols. Both are proprietary wireless protocols from ELKO EP, which have a completely unique structure. RFIO2 is an extension of the RFIO protocol and allows users to use newly introduced features, such as unit signals (repeater), for selected features. This protocol is fully compatible with the previous version of the protocol (RFIO).

Available frequency for individual territories:

| | |
|---|--|
| 865.15 MHz India | 916 MHz Australia, New Zealand, America, Israel |
| 868.1 MHz Russia | |
| 868.5 MHz EU, Ukraine, Middle East | |

- Benefits of RFIO:**
- Communication is low-energy and reliably transfers small data packets.
 - Fees or licenses are not required.
 - No overlapping of communication space with unaddressed commands.
 - Frequency used does not interfere with Wi-Fi/Bluetooth devices.
 - Setting communication between components is not conditional on working with a computer or system.

- Benefits of RFIO2:**
- Products labeled as "RFIO2" will allow newly set selected components such as unit signals (repeaters).
 - For components, you can easily update FW using the RFAF/USB service device.
 - Enables communication with RFMD-100 and RFWD-100.
 - Data transfer between wireless components takes place in such a way that other receivers within range can help transfer the information (packet) to a remote receiver that is out of reach. It is possible to cover large-scale objects (real estate) and also increase the reliability of transmission in more demanding buildings.
 - Backward compatibility with RFIO elements is retained.

Problematic choice of suitable relay contact for a particular load switched with a product is described below. Mostly we experience problems with incorrect choice of load (meaning incorrect relay for a particular load) which results in permanent switching of contact (sealing) or damage on relay contact – which then results in malfunction. What load can you use? Detailed types of load according to standard EN 60947 are described in charts below – categories of use.

| Category of use | Typical use | EN |
|----------------------------------|---|-----------|
| AC current, $\cos\phi = P/S$ (-) | | |
| AC-1 | Non-inductive or slightly inductive load, resistance furnace Includes all appliances supplied by AC current with power factor ($\cos\phi$) ≥ 0.95 Examples of usage: resistance furnace, industrial loads | 60947-4 |
| AC-2 | Motors with slip-ring armature, switching off | 60947 |
| AC-3 | Motors with short-circuit armature, motor switching when in operation This category applies to switching off motors with short-circuit armature while in operation. While switching, contactor switches current which is 5 up to 7 times rated current of motor. | 60947-4 |
| AC-4 | Electro-motors with short-circuit armature: start up, braking by backset, changeover | 60947 |
| AC-5a | Switching of electrical gas-filled lights, fluorescent lights | 60947-4 |
| AC-5b | El. bulb switching Enables low contact loading due to resistance of cold fiber is many times smaller than the one of hot fiber. | 60947-4 |
| AC-6a | Switching of transformers | 60947-4 |
| AC-6b | Switching of capacitors | 60947-4 |
| AC-7a | Switching low inductive loads of home appliances and similar applications | 60947 |
| AC-7b | Load of motors for home appliances | 60947 |
| AC-8a | Switching of hermetically sealed motors of cooling compressors with manual reset switches against overload Hermetically sealed cooling compressors have to be placed in one box without external shaft or shaft padding and motor must operate with cooling liquid | 60947 |
| AC-8b | Switching of hermetically sealed motors of cooling compressors with manual reset switches against overload Hermetically sealed cooling compressors have to be placed in one box without external shaft or shaft padding and motor must operate with cooling liquid | 60947 |
| AC-12 | Switching of semiconductor loads with separation transformers | 60947-5 |
| AC-13 | Switching of semiconductor loads with separation transformers | 60947-5-1 |
| AC-14 | Switching of low electro-magnetic loads (max.72 VA) | 60947-5-1 |
| AC-15 | Management of alternating electro-magnetic loads This category applies to switching inductive loads with input for closed electro-magnetic circuit higher than 72 VA Use: switching coils of contactors | 60947-5 |
| AC-20 | Connecting and disconnecting in unloaded states | 60947-3 |
| AC-21 | Switching resistive loads, including low loading | 60947-3 |
| AC-22 | Switching of mixed resistive and inductive loads, including low overloading | 60947-3 |
| AC-23 | Switching of motor loads or other high inductive loads | 60947-3 |
| AC-53a | Switching of motors with short-circuit armature with semiconductor contactors | 60947 |



















Note: Category AC 15 replaces formerly used category AC 11

| DC current, $t = L/R$ (s) | | |
|---------------------------|--|-----------|
| DC-1 | Non-inductive or low inductive load, resistive furnaces | 60947-4 |
| DC-3 | Shunt motors: start-up, braking by backset, reversion, resistive braking | 60947-4-1 |
| DC-5 | Series motor: start-up, braking by backset, reversion, resistive braking | 60947-4-1 |
| DC-6 | Non-inductive or low inductive loads, resistive furnaces – el. bulbs | 60947-4-1 |
| DC-12 | Management of resistive loads and fixed loads with insulation by opto-electric element | 60947-5-1 |
| DC-13 | Switching of electromagnets | 60947-5-1 |
| DC-14 | Switching of electromagnetic loads in circuits with limiting resistor | 60947-5-1 |
| DC-20a(b) | Switching and breaking without load(a: frequent switching ,b: occasional switching) | 60947-3 |
| DC-21a(b) | Switching ohmic loads including limiting overloading (a: frequent switching ,b: occasional switching) | 60947-3 |
| DC-22a(b) | Switching of compound ohmic and inductive loads including limited overloads (e.g. shunt motors) (a: frequent switching, b: random switching) | 60947-3 |
| DC-23 | Switching of highly inductive loads (e.g. series motors) | 60947-3 |



















How can you distinguish for which load is our product (relay) designated?
Our company record this information on a products and also in our catalogue, instruction manual and other promotional and technical material (website etc.). It is important to realize that it is not always possible to point out load because of lack of information about the device (user cannot measure cos) or it is not possible because of inconstancy of parameters of switched device. Manufacturer of relays records always guaranteed parameters in ideal conditions which are done by a norm (temperature, pressure, humidity, etc.) and reality can be in a lot of cases different. Category of use (classification) of a particular relay is done by material of output contacts.

- Basic types of materials which are used for production of contacts for high-performance relay are:
- AgCd – suitable for switching ohmic loads. Before of harmfulness of Cd, this type of contact is remitted.
 - AgNi – designated for switching resistive loads, good quality switching and conducting (contact doesn't oxidate) small currents/voltages, it is not designated for surge currents and loads with inductive component.
 - AgSn or AgSnO₂ – suitable for switching loads with inductive component, not suitable for switching small currents/voltages, it is more resistive to surge currents, suitable for DC voltage switching, less suitable for switching loads of ohmic type.
 - Wf (wolfram)-special contact designated for switching surge currents with inductive component.
 - e) with gold (AgNi/Au)- Used for "improving" contacts for low currents/ voltages , prevents oxidation.



















RFJA-32B-SL; RFSA-62B-SL; RFSAI-62B-SL; RFSA-66M; RFSAI-11B-SL; RFSAI-62B-SL/TH; RFSW-62; RFSW-262; RFSTI-11B-SL; RFSAI-61B-SL; RFSA-61MI

| Load type |  AC1 $\cos\phi \geq 0.95$ |  AC2 |  AC3 |  AC5a without compensation |  AC5a with compensation |  AC5b |  AC6a |  AC7b |  AC12 |
|---|---|--|--|---|--|--|--|--|--|
| Contact material AgSnO ₂ , Contact 8 A | 250 V/8 A | 250 V/5 A | 250 V/4 A | x | x | 250 W | 250 V/4 A | 250 V/1 A | 250 V/1 A |
| Load type |  AC13 |  AC14 |  AC15 |  DC1 |  DC3 |  DC5 |  DC12 |  DC13 |  DC14 |
| Contact material AgSnO ₂ , Contact 8 A | x | 250 V/4 A | 250 V/3 A | 30 V/8 A | 24 V/3 A | 30 V/2 A | 30 V/8 A | 30 V/2 A | x |

RFUS-61

| Load type |  AC1 $\cos\phi \geq 0.95$ |  AC2 |  AC3 |  AC5a without compensation |  AC5a with compensation |  AC5b |  AC6a |  AC7b |  AC12 |
|--|---|--|--|---|--|--|--|--|--|
| Contact material AgSnO ₂ , Contact 14 A | 250 V/12 A | 250 V/5 A | 250 V/3 A | 230 V/3 A (690 VA) | 230 V/3 A (690 VA) up to max input C=14uF | 1000 W | x | 250 V/3 A | x |
| Load type |  AC13 |  AC14 |  AC15 |  DC1 |  DC3 |  DC5 |  DC12 |  DC13 |  DC14 |
| Contact material AgSnO ₂ , Contact 14 A | x | 250 V/6 A | 250 V/6 A | 24 V/10 A | 24 V/3 A | 24 V/2 A | 24 V/6 A | 24 V/2 A | x |

RFSA-61M; RFSC-61N; RFSA-61MI

| Load type |  AC1 $\cos\phi \geq 0.95$ |  AC2 |  AC3 |  AC5a without compensation |  AC5a with compensation |  AC5b |  AC6a |  AC7b |  AC12 |
|--|---|--|--|---|--|--|--|--|--|
| Contact material AgSnO ₂ , Contact 16 A | 250 V/16 A | 250 V/5 A | 250 V/3 A | 230 V/3 A (690 VA) | 230 V/3 A (690 VA) up to max input C=14uF | 1000 W | x | 250 V/3 A | 250 V/10 A |
| Load type |  AC13 |  AC14 |  AC15 |  DC1 |  DC3 |  DC5 |  DC12 |  DC13 |  DC14 |
| Contact material AgSnO ₂ , Contact 16 A | x | 250 V/6 A | 250 V/6 A | 24 V/10 A | 24 V/3 A | 24 V/2 A | 24 V/6 A | 24 V/2 A | x |

Rating of the light source ELKO lighting on dimmers ELKO EP

| | LED bulb | | LED spot lights | | | LED panels | | LED / RGB strip | | | | | |
|---------------|-----------------|----------------|------------------|-----------------|-----------------|------------|------------|-----------------|-----------------|-----------------|-----------------|----------------|-----------------|
| | DLB-E27-806-2K7 | DLB-E27-806-5K | DLSL-GU10-350-3K | LSL-GU10-350-3K | LSL-GU10-350-5K | LP-6060-3K | LP-6060-6K | LED strip 7.2W | LED strip 14.4W | LED strip 19.2W | LED strip 28.8W | RGB strip 7.2W | RGB strip 14.4W |
| RFDSC-71N | ✓ number 21 | ✓ number 21 | ✓ number 45 | ✓ number 25 | ✓ number - | - number - | - number - | - number - | - number - | - number - | - number - | - number - | - number - |
| RFDEL-71B-SL | ✓ 11 | ✓ 11 | ✓ 25 | ✓ 13 | ✓ 13 | - - | - - | - - | - - | - - | - - | - - | - - |
| RFDA-73M/RGB | - - | - - | - - | - - | - - | - - | - - | ✓ 3x8m | ✓ 3x4m | ✓ 3x5m | ✓ 3x4m | ✓ 20m | ✓ 10m |
| RFDALI-32B-SL | - - | - - | - - | - - | - - | ✓ 50 | ✓ 50 | - - | - - | - - | - - | - - | - - |

WARNING!

May lead to different results based on the state of network cable length and other factors.

This table contains the results of tests that were conducted internally and therefore is ONLY for customers only informative. The products were tested in test laboratories ELKO EP, and therefore the company assumes no responsibility for any imitation test environment.

Inductive and capacitive loads must not be connected simultaneously!

Load capacity:

* Due to the huge amount of type of light sources, the maximum load depends on internal construction of dimmable LED and ESL bulbs and their power factor $\cos\phi$, capacity for power factor $\cos\phi=1$. The power factor of dimmable LEDs and ESL bulbs ranges from $\cos\phi=0.95$ up to 0.4. An approximate value of maximum load may be obtained by multiplying the load capacity of the dimmer by the power factor of the connected light source.

There are different types of pairing according to the factory version of the driver. Due to technological advances, which are inevitable even in our products, you can have controllers with or without a pairing button. You can identify the controller with the pairing button by the mark **P** on the print on the back of the instrument panel and the physical presence of the pairing button on the controller.

To position the pairing buttons on your controllers:



RFGB (both round and sharp versions):
Pressing on the upper control mandrel (paper clip, screwdriver) will eject the battery and the pairing button is released.

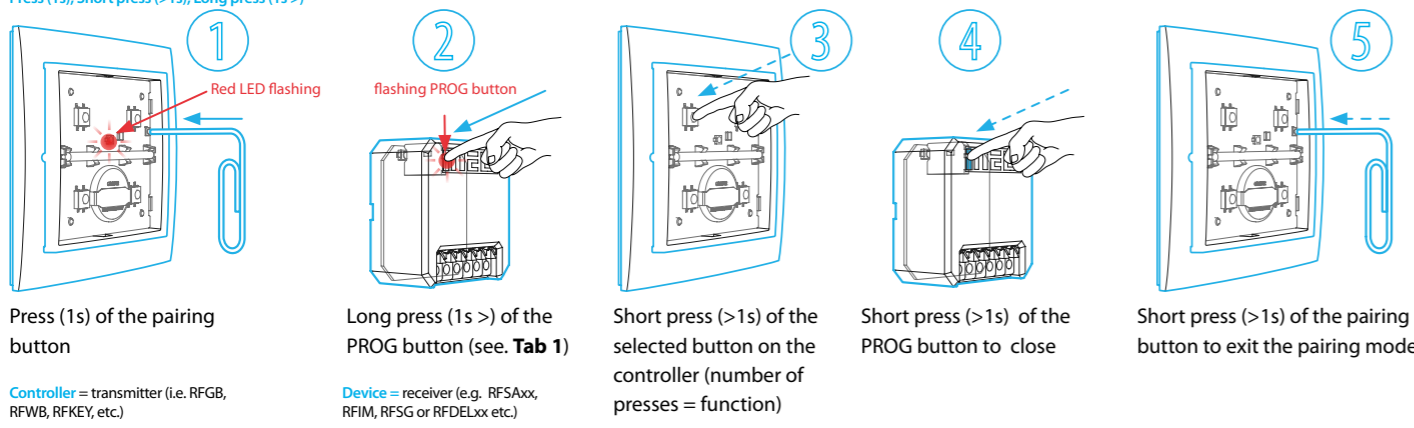
RFWB:
By removing the controller flap, the pairing button is accessed.

RF Key
It is located on the side near the button number 5.

A To assign a controller using the pairing button

Hold the pairing button for 1 second to put the controller into pairing mode – the red LED indicates with a short flash. Next, hold the PROG button on the device you want to control for 1s, 2 sec or 3 s (see **Tab 1** **PROG button modes**) Next, continue setting the functions (1 to 6) by pressing the appropriate button on the controller with the appropriate number of presses (see **Tab 2**). Finish programming by briefly pressing the PROG button on the device and briefly pressing the pairing button on the controller. We recommend that you first enter the controller into pairing mode and then the device. Putting the controller and the device into pairing mode is signaled by a red LED with a short blink.

Press (1s), Short press (>1s), Long press (1s >)

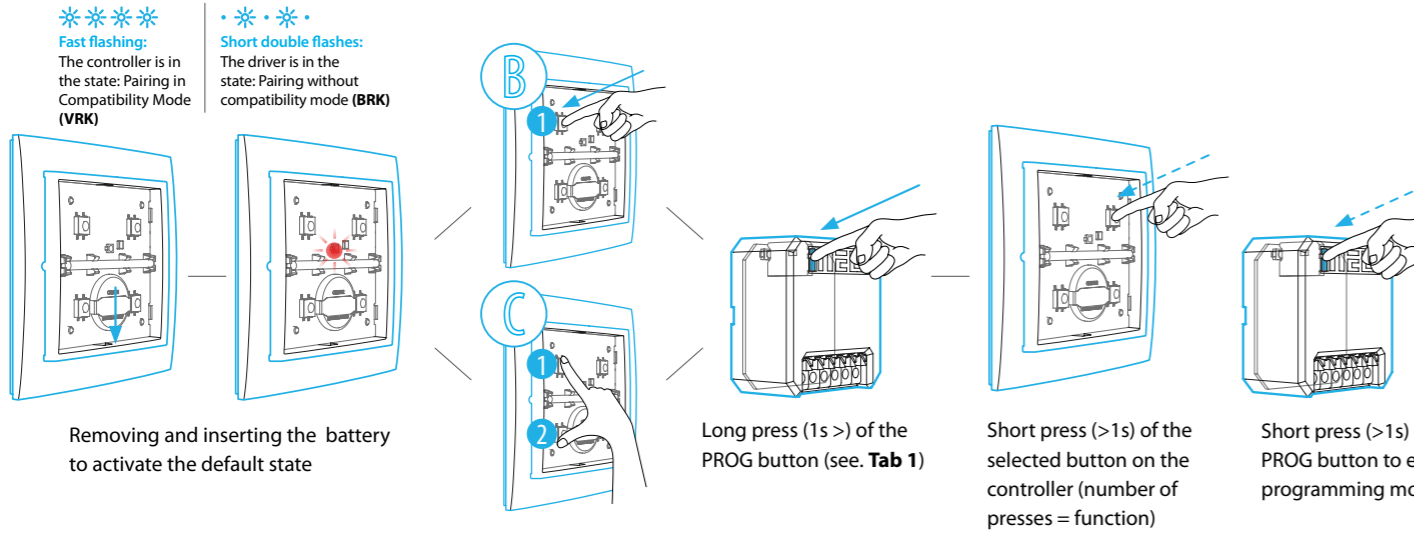


Controller = transmitter (i.e. RFGB, RFWB, RFKEY, etc.)

Device = receiver (e.g. RFSAxx, RFIM, RFSG or RFDELxx etc.)

Assign a controller without a pairing button

Procedures without a pairing button are used to assign older controls to devices, and two pairing options are possible, depending on the version of the device. This is a pairing without putting into the so-called „pairing“, „Compatibility Mode“ or with the introduction to „Compatibility Mode“ mode (the oldest possible version).



Removing and inserting the battery to activate the default state

Long press (1s >) of the PROG button (see **Tab 1**)

Short press (>1s) of the selected button on the controller (number of presses = function)

Short press (>1s) of the PROG button to exit the programming mode.

B Pairing without compatibility mode

First, insert the battery into the controller. If the battery has already been inserted into the controller, remove it for at least 5 s to restore it to its default state. After inserting the battery, while the red LED is lit (3 s), press and hold 1 until the controller starts to indicate the driver mode by briefly flashing the LED. Then release the button to make the controller ready for pairing. Next, hold down the PROG button on the device you want to control for 1, 2 or 3 s (see **Tab 1**) continue to set functions 1 to 6 by pressing the appropriate button on the controller with the appropriate number of presses (see **Tab 2**). Finish programming by briefly pressing the PROG button on the device and removing and reinserting the battery into the controller.

C Pairing in compatibility mode

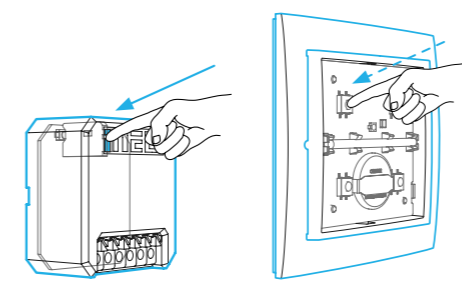
To pair the oldest versions of devices with drivers, it is necessary to switch the driver to Compatibility Mode. Remove the battery from the controller 5 s. After inserting the battery, the red LED is on for 3 s, press and hold 1 and 2 at the same time and keep them pressed until the controller signals the transition to Pairing in compatibility mode by flashing rapidly. Then the buttons must be released. The controller, which is in Compatibility Mode, is ready for pairing, so you only need to put the device into pairing mode. 1s, 2 s or 3 s (depending on type see table Modes of the PROG button) and continue setting functions 1 to 6 by pressing the appropriate button on the controller with the appropriate number of presses according to the manual of the device. Finish programming by briefly pressing the PROG button.

Switching between 1 and 2 modes also works the other way around, so you can switch back to Pairing without compatibility mode (transition indicator – double flash).

Table 1) Modes of the PROG button on the devices

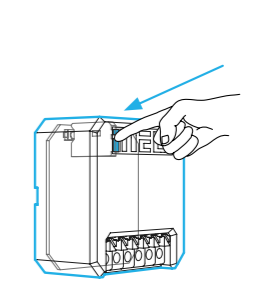
| Applies to: | Applies to: Entering pairing mode (Step 2) | Clearing channel/button memory | Clear the memory of an entire device |
|--|--|--------------------------------|--------------------------------------|
| RFSA-11B, RFSAI-11B-SL, RFSA-61B, RFSA-61B-SL, RFSA-61M, RFSA-61MI, RFSA-66M, RFSA-66MI, RFSC-61, RFUS-61, RFDA-11B, RFDEL-71B, RFDEL-71M, RFDEL-76M, RFDALI-04B, RFDALI-32B, RFDA-73M/RGB, RFDS-71N | 1 s | 5 s | 8 s |
| RFSAI-62B-SL, RFSA-62B, RFSAI-62BRFSW-62, RFSW-262, RFDW-71, RFDW-271 | 3 s | 7 s | 11 s |
| RFDAC-71B | 2 s | 5 s | 10 s |

Clear the memory of the button



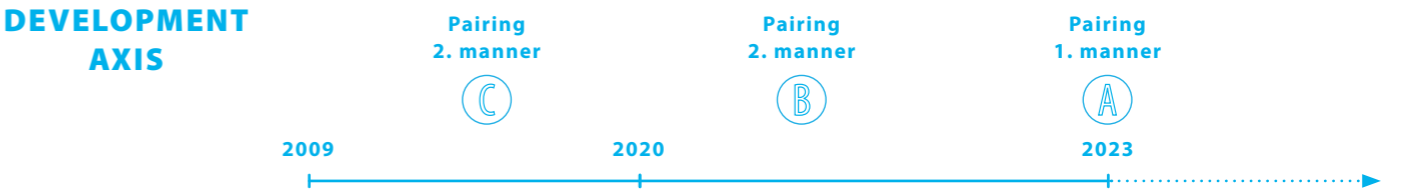
To clear an already paired channel to a button on the controller, press the PROG on the device for a period of time of 5 s or 7 s (see **Tab 1**). Clear the memory of the button and press the appropriate button on the controller that you want to unpair. After this step, it returns to its working state.

Clear the memory of the whole device



If you want to clear the memory of the whole device (unpair all buttons or delete all channels at once), press the PROG button on the device for 8/10/11 s according to the type of device (see **Tab 1**). Clearing the memory of the entire device. The device remains in pairing mode.



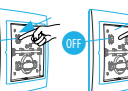

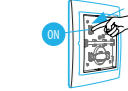

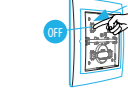

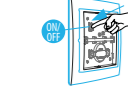


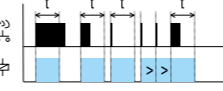

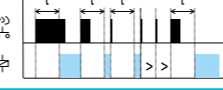

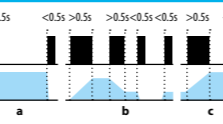

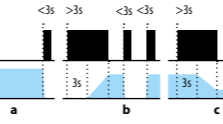

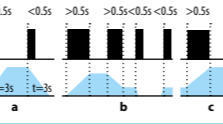

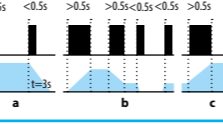

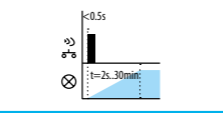

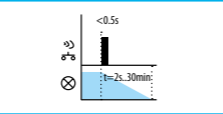

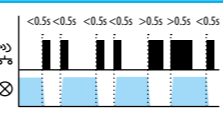
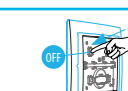
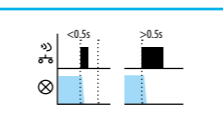
DRIVER DEVELOPMENT AXIS



Please note:
If you are pairing older versions of drivers or features with each other, it is not possible to clearly determine whether you need to use Compatibility Mode for pairing or not. Therefore, you need to try both ways.
RF Key/W and RF Key/B key fobs and other drivers of the oldest possible version can no longer be paired with devices that have radio wavelet markings on the PROG button. RFSAI-62-SL, RFSA-62B, RFSAI-62B and RFDAC-71B units have a different pairing method. Always follow the instructions for the devices.

Setting the functions on the controllers

Table 2) Programming of feature functions

| Single function - RFSA-11B-SL | | |
|---|--|---|
| Assign a function | Feature description | Graph |
|  1x click | Function button ON/OFF The output contact closes by pressing one button position, and opens by releasing the button. |  |
| It is a single-function relay, so when programming the ON function on the upper pusher, the OFF function is assigned to the button below it automatically | | |
| Spínací prvky multifunkční - RFSA-61B, RFSA-62B-SL, RFSA-61M, RFSA-66M, RFSAI-62B-SL, RFSC-61N, RFUS-61 | | |
|  1x click | Function 1 - button The output contact will be closed by pressing the button and opened by releasing the button. |  |
|  2x click | Function 2 - switch on The output contact will be closed by pressing the button. |  |
|  3x click | Function 3 - switch off The output contact will be opened by pressing the button. |  |
|  4x click | Function 4 - impulse relay The output contact will be switched to the opposite position by each press of the button. If the contact was closed, it will be opened and vice versa. |  |
|  5x click + hold = delay time | Function 5 - delayed off The output contact will be closed by pressing the button and opened after the set time interval has elapsed. $t = 2\text{ s} - 60\text{ min}$. |  |
|  6x click + hold = delay time | Function 6 - delayed on The output contact will be opened by pressing the button and closed after the set time interval has elapsed. $t = 2\text{ s} - 60\text{ min}$. |  |
| The timing function (5 and 6) is performed by combining multiple presses and tracking the time for which we want to activate the delayed return or start (see. Manual for switching devices). | | |
| Stmívací prvky multifunkční RFDA-73M/RGB, RFDEL-71B-SL, RFDEL-71M, RFDSC-71N, RFDAC-71B, RFDW-71 | | |
|  1x click | Light scene function 1 The brightness level is saved in the memory, and pressing the button shortly later will switch the light on/off to this intensity. It is possible to readjust the change in intensity at any time by a long press of the programmed button. The actuator remembers the adjusted value even after disconnecting from the power supply. |  |
|  2x click | Light scene function 2 The brightness level is saved in the memory, and pressing the button shortly later will switch the light on/off to this intensity. It is possible to readjust the change in intensity at any time by pressing the programmed button for over 3 s. The actuator remembers the adjusted value even after disconnecting from the power supply. |  |
|  3x click | Light scene function 3 The brightness level is saved in the memory, and pressing the button shortly later will switch the light on/off to this intensity. It is possible to readjust the change in intensity at any time by a long press of the programmed button. The actuator remembers the adjusted value even after disconnecting from the power supply. |  |
|  4x click | Light scene function 4 The brightness level is saved in the memory, and pressing the button shortly later will switch the light on/off to this intensity. It is possible to readjust the change in intensity at any time by a long press of the programmed button. The actuator remembers the adjusted value even after disconnecting from the power supply. |  |
|  5x Click + hold = time | Function sunrise After pressing the programmed button, the light begins to illuminate in the programmed time interval in a range of 2 seconds to 30 minutes. |  |
|  6x Click + hold = time | Function sunset After pressing the programmed button, the light begins to dim in the programmed time interval in a range of 2 seconds to 30 minutes. |  |
|  7x click | Function ON / OFF If the light is switched off, pressing the programmed button will switch it on. If the light is switched on, pressing the programmed button will switch it off. |  |
|  8x click | Function switch OFF The dimmer output switches off by pressing the button. |  |

The sunrise and sunset function is performed by combining multiple presses and tracking the time for which we want to activate the delayed return or start (see. Manual for switching devices).

Installation possibilities



1) Surface mounted
Wall mounted or in an installation box with spacing of 65 mm.

- RFWB-20/G RFGB-40B/MT RFGB-220
- RFWB-40/G RFGB-40W/MT RFGB-240
- RFWB-40G/MT RFCT-10/G
- RFGB-20 RFCT-50/G
- RFGB-40 RFCT-150/G

2) Flush mounted
RF Touch-2 RFSW-62/S
RFDW-71
RFDW-271
RFGS-30/S



3) DIN Rail mounted
On DIN rail according to EN 60715.

- RFSG-1M RFSA-61M
- RFDA-73M/RGB RFSA-66M
- RFDEL-71M RFSA-66MI
- RFSA-266M RFSA-61MI
- RFDEL-76M

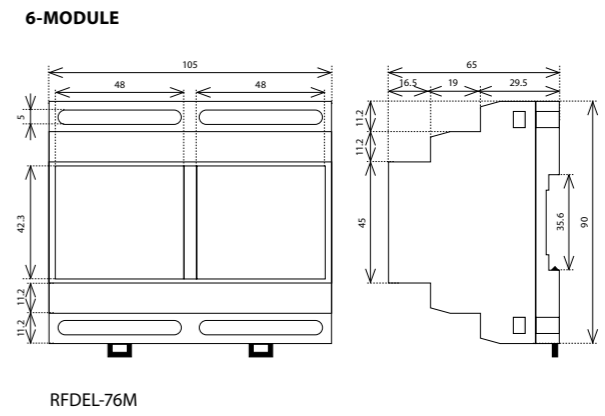
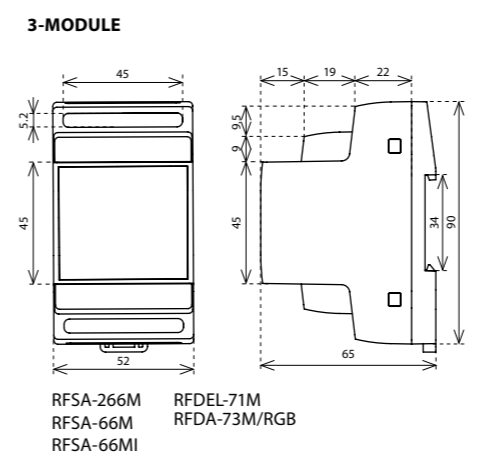
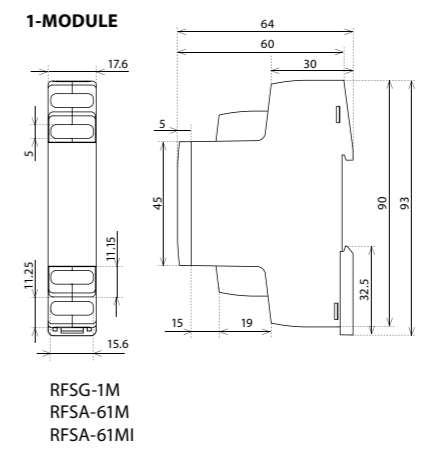
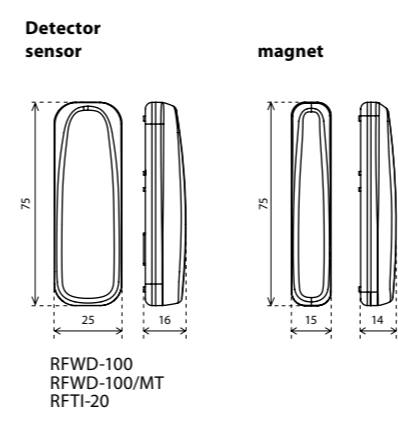
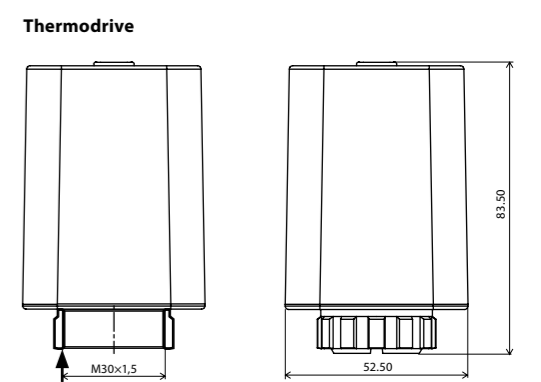
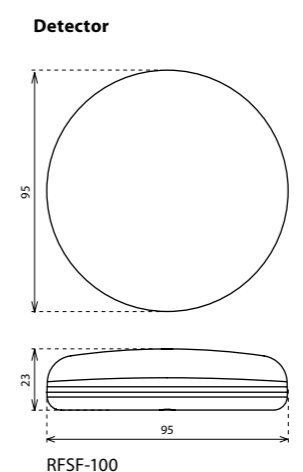
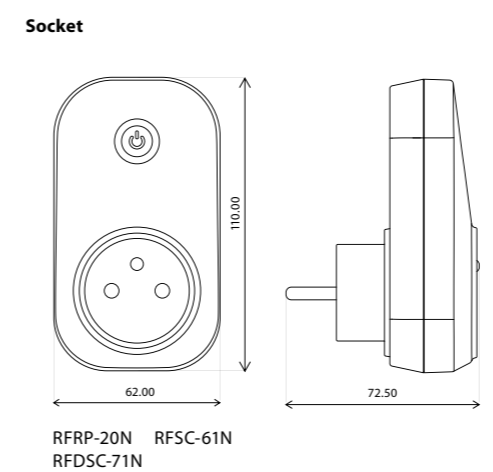
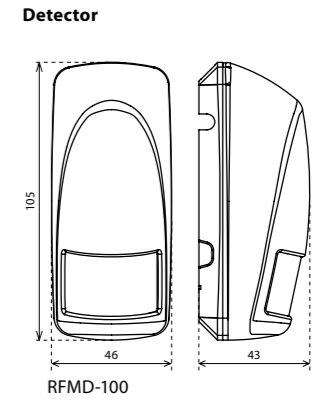
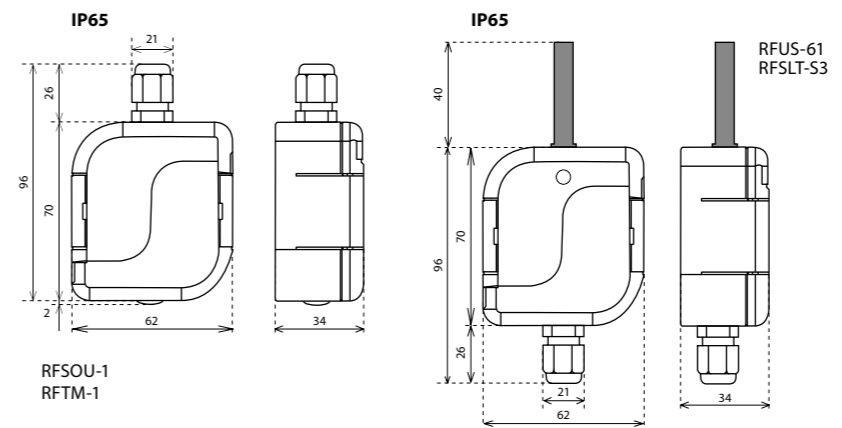
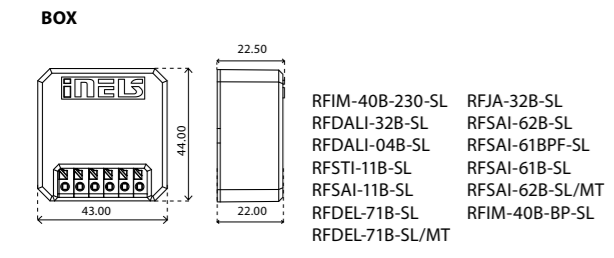
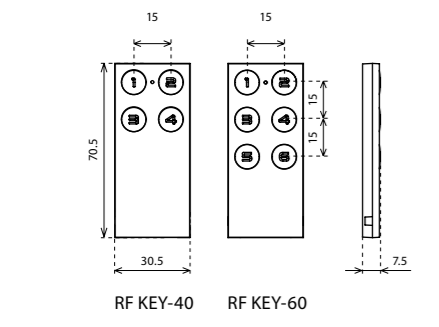
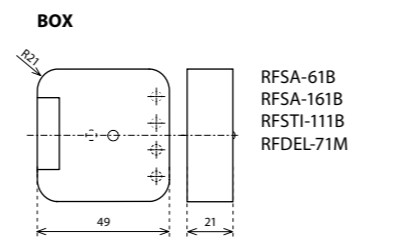
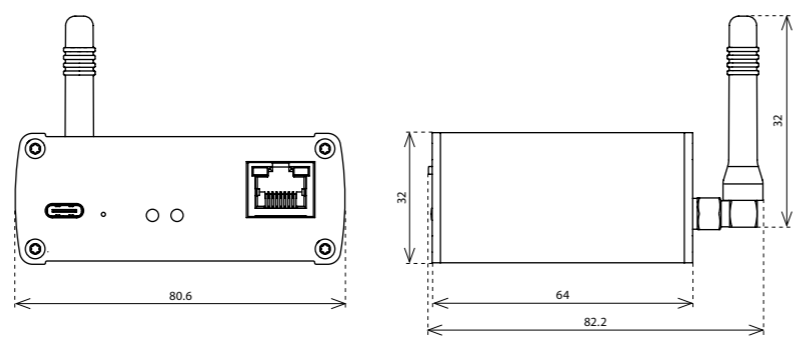
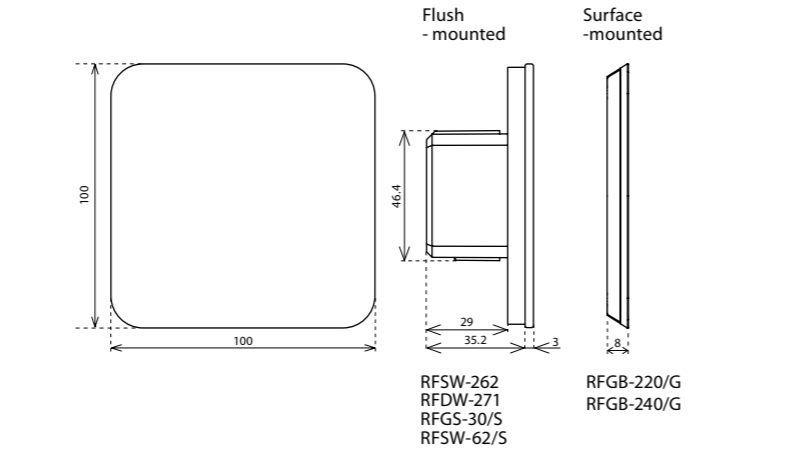
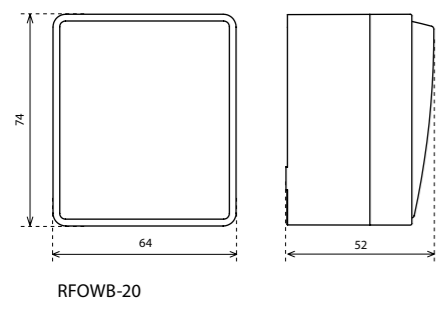
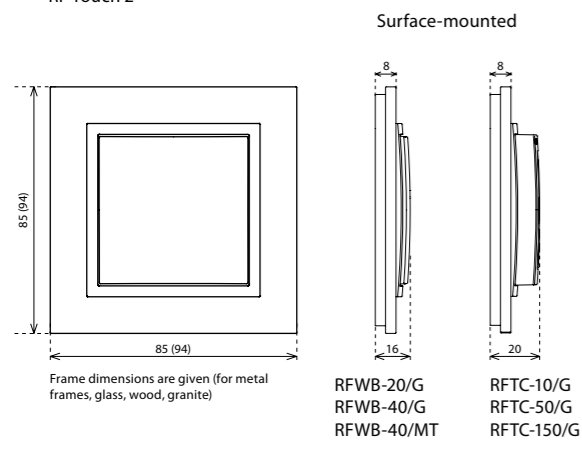
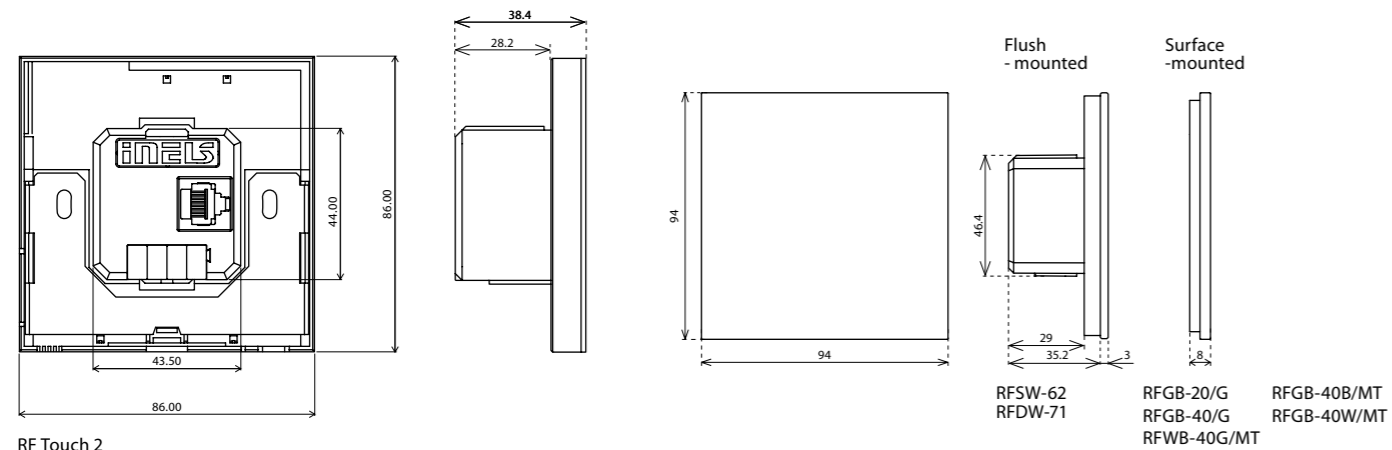
4) Flush mounted (BOX)
RFIM-40B-BP-SL RFSAI-62B-SL
RFIM-40B-230-SL RFSAI-61BPF-SL
RFDALI-32B-SL RFJA-32B-SL
RFDALI-04B-SL RFSTI-11B-SL
RFDEL-71B-SL RFSAI-161B
RFSAI-11B-SL RFSTI-111B
RFSA-61B RFSAI-62B-SL/MT

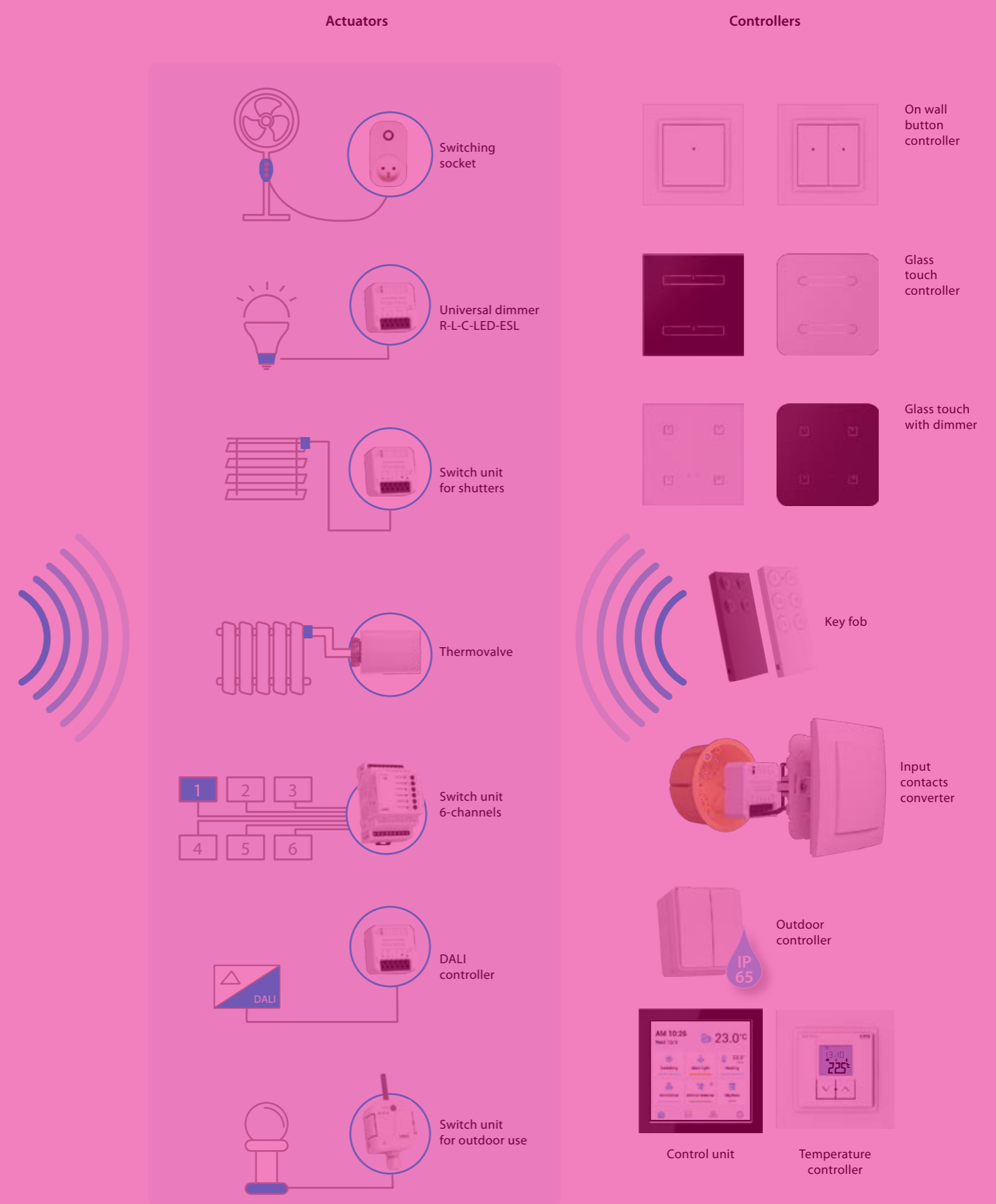
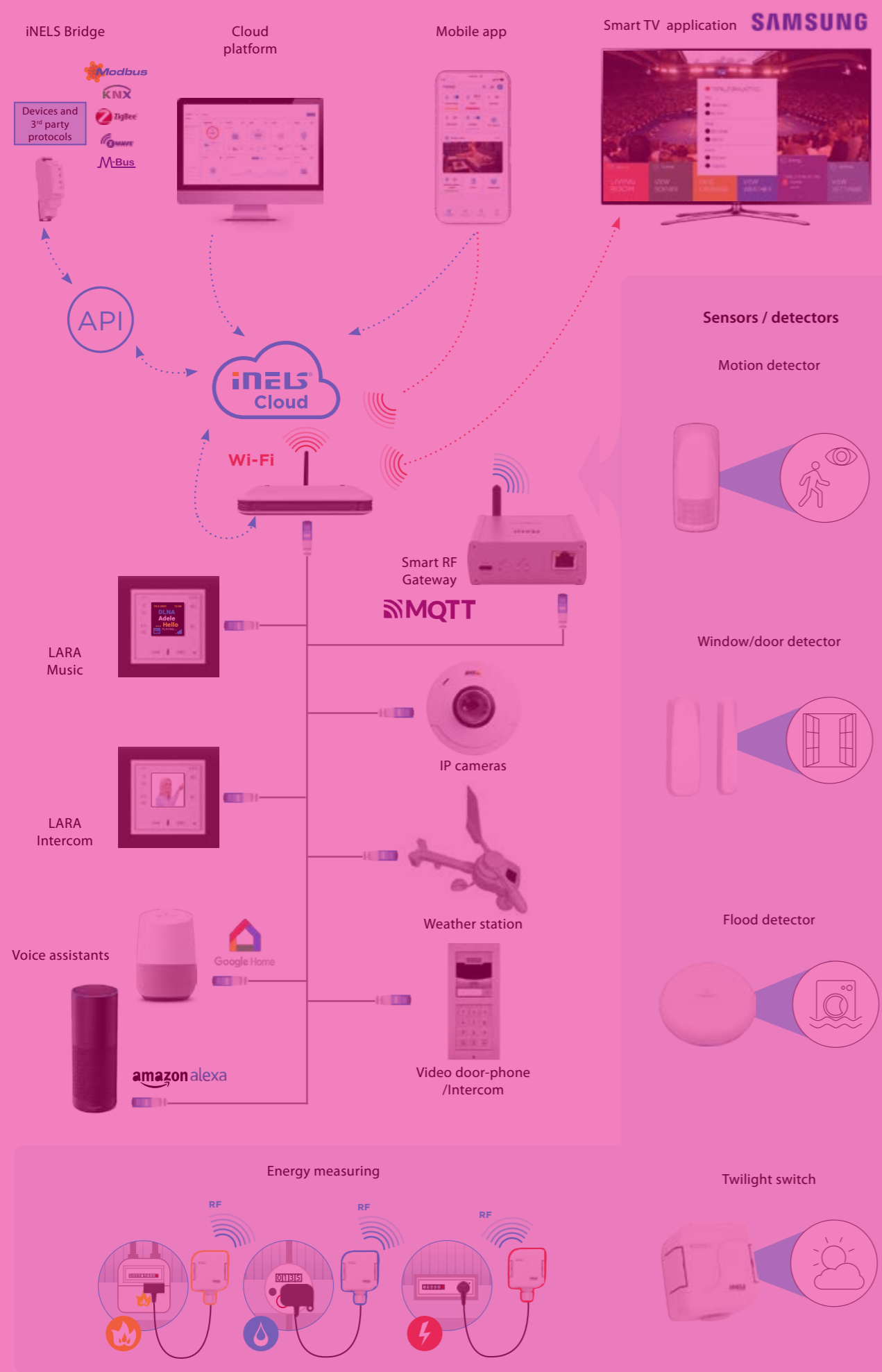


5) Mounted into the cover of appliance

- RFDALI-32B-SL RFSAI-62B-SL RFSTI-111B
- RFDALI-04B-SL RFSAI-BPF-SL RFSAI-62B-SL/MT
- RFDEL-71B-SL RFJA-32B-SL
- RFSAI-11B-SL RFSTI-11B-SL
- RFSA-61B RFSAI-161B

6) Surface mounted
RFSOU-1 RFDW-100
RFUS-61 RFOWB-20
RFTM-100 RFMD-200
RFSF-100 RFSLT-S3
RFMD-100







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