iNELS Wireless electro-installation











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 %

40 %

30 %

Czech

export

branches









WORLDWIDE

11 branches 3 franchises 70 export countries 350

employees in holding

30 000 +

INELS

30 000 000 +

manufactured installations products







R&D

continuosly 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.



Pre-Set elements for everyday applications.

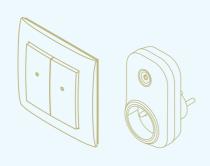


A simple solution to turn your house into a smart home, without any structural intervention.



When using wireless elements is faster and cheaper.





KITS

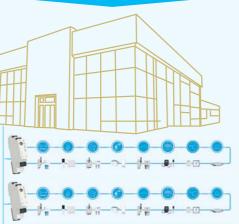














20.0

Many ways to controll...



On wall button controllers



Glass touch controller



Wireless touch unit



RF Key

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)

RFGB-20 / RFGB-40

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

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

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

RF Key-40B/W

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



























Matter compatibility

Ecosystems & cloud













Application layer

Network/Transport

layer



Profiles











Radio:



IEEE 802.15.4

IEEE 802.11

Bluetooth

Catalogue content

iNELS Wireless: units overview	8
Controllers	
RFWB-20/G, RFWB-20/GB, RFWB-40/G, RFWB-40/GB On-wall button controllers – PAIRING BUTTON	14
RFOWB-20 Outdoor controller, 2 buttons – (IP65)	15
RFGB-20/W, RFGB-20/B, RFGB-40/W, RFGB-40/B Glass touch controllers, SHARP – PAIRING BUTTON	16
RFSW-62, RFSW-262 Glass touch controller with output relays – NEW!	17
RFDW-71, RFDW-271 Glass touch controller with dimmer – NEW!	18
RFGB-220/W, RFGB-240/W, RFGB-240/W, RFGB-240/B Glass touch controllers, ROUND – PAIRING BUTTON	19
RF Pilot/W, RF Pilot/A Remote RF controller with display	20
RF KEY-40/W, RF KEY-40/B, RF KEY-60/W, RF KEY-60/B Key fob – PAIRING BUTTON	22
Switches	
RFSA-61B Switch unit, 1-channel – (BOX)	
RFSAI-61BPF-SL – NEW! , RFSAI-61B-SL, RFSAI-62B-SL, RFSAI-11B-SL Switch units with the inputs for external buttons – (BOX-SL)	
RFJA-32B-SL Switch unit for shutters – (BOX-SL)	
RFSA-61MI, RFSA-61M Switch unit, 1 channel – (1-MODUL DIN rail)	
RFSA-66MI, RFSA-66M Switch unit, 6 channels – (3-MODUL DIN rail)	
RFUS-61 Switch unit with increased protection – (IP65)	
RFSC-61N Switch socket-plug – (PLUG)	29
Dimmers	
RFDAC-71B-SL Analog controller, 0(1)-10 V – (BOX)	
RFDEL-71B-SL Universal dimmer, 1-channel – (BOX-SL)	
RFDALI-32B-SL, RFDALI-04B-SL DALI controller, for 32/4 addresses – (BOX-SL) – NEW!	
RFDEL-71M Universal dimmer, 1-channel – (3-MODUL DIN rail)	
RFDEL-76M Universal dimmer, 6-channels – (6-MODUL DIN rail)	
RFDA-73M/RGB Dimmer for LED (RGB) strips, 3-channels – (3-MODUL DIN rail)	
RFDSC-71N Dimming socket-plug – (PLUG)	37
Temperature control	
RFTC-3 Glass touch thermostat for fancoils – NEW!	
RFTC-10/G System temperature controller – (LOGUS ⁹⁰)	
RFTC-50/G Autonomous temperature controller – (LOGUS ⁹⁰)	
RFSTI-11B-SL Switch unit with external temperature sensor – (BOX-SL)	
RFTI-20 Temperature and humidity sensor – (SURFACE)	
RFATV-2 Wireless thermovalve	
TC, TZ Temperature sensors	45
Converters PEIM 40P (PD CL PEIM 40P (220 CL Liveret contacts of providing (POV CL)) PAIRING PHITTON	
RFIM-40B/BP-SL, RFIM-40B/230-SL Input contacts converter – (BOX-SL) – PAIRING BUTTON	
RFSG-1M Input contact converter (1-MODUL DIN rail) – PAIRING BUTTON	
RFTM-1 Pulse converter – (IP65)	48
Detectors	
Detectors PESE-100 Flood detector	40
RFSF-100 Flood detector	
·	
RFWD-100 Window/door detector	
RFMD-100 Motion detector	
RFSLT-S3 Wireless hydrostatic level sensor – (IP65) – NEW!	
111 JET 33 YTH CIC33 HY GIOSIANC ICVCI 3CH301 (H O3/ ITETT:	···· 54

Catalogue content

System units	
RF Touch-2/BE, RF Touch-2/BR Wireless touch unit – NEW!	56
eLAN-RF-103 Smart RF gateway MQTT	58
RFRP-20N Repeater to extend the range – (PLUG)	59
MATTER	
RFWB-40G/MT On-wall button controllers, 4 buttons MATTER – (LOGUS ⁹⁰)	60
RFGB-40B/MT, RFGB-40W/MT Glass touch controller – 4 buttons, SHARP MATTER	61
RFSAI-62B-SL/MT Switch unit with inputs for external buttons MATTER – (BOX-SL)	62
RFDEL-71B-SL/MT Universal dimmer MATTER	63
RFMD-200/MT Motion detector for ceiling mounting MATTER	64
RFWD-100/MT Window/door detector MATTER - NEW!	65
HRESK	
RFGS-30/S Infront of door hotel room unit – NEW!	68
RFSW-62/S Glass touch wireless controler with symbols – NEW!	69
RFSA-266M Switch unit for fancoil control – NEW!	70
RFSAI-161B Ligting control unit with pair detectors and external button input – (BOX)	71
RFSTI-111B Overheating/overcooling switch unit with advanced functions – (BOX)	73
Accessories	
AN-I Internal antenna	75
RFAF/USB Service Key	75
AN-E1 External antenna	76
AN-E3 External antenna	76
MS Sensors for RFTM-1	77
WS Sensors for RFTM-1	77
LS Sensors for RFTM-1	77
Overview of functions	
Applications	78
Voice assistants	80
Protocol and compatibility	81
Product loadability	82
Pairing controllers with iNELS Wireless devices	84
Setting the functions on the controllers	86
Installation possibilities	87
Product dimension	88
Scope Architecture	90

Units overview

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

Р



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 RFGB-20/W - white RF Pilot/A – anthracite RFGB-20/B - black Glass touch controller Remote Wireless controller with display 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-62/B – black glass, SHARP **RFSW-262/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







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



Universal dimmer, 6-channels – 6 x 150 VA

Legend:















MQTT



Switch units



RFSA-61B Switch unit, 1 channel -1×16 A, multifunction

RFJA-32B-SL

Switch unit for shutters,

2×8 A

RFUS-61

Switch unit with increased

protection, $1 \times 12 A$,

multifunction



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

RFSA-66MI

Switch unit, 6 channels with

integrated antenna

– multifunction, 6×8 A



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



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



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



RFSA-61MI Switch unit, 1 channel with integrated antenna

– multifunction, 1× 16 A



RFSA-66M Switch units, 6 channels - multifunction, 6×8 A



RFSA-61M Switch unit, 1 channel - multifunction, $1 \times 16 A$



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





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

RFDA-73M/RGBW

Dimmer for LED (RGB) strips,

3-channels





RFDSC-71N Dimming socket-plug





RFDEL-76M

Units overview

Temperature control



RFTC-3 Glass touch thermostat for fancoils



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 thermovalve



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



Input contact converter -1x permanent contact



RFSG-1M



RFTM-1 Puls converter

Detectors



RFSF-100 Flood detector

RFMD-200 Motion detector



RFSOU-1 Twilight switch



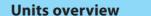
Window/Door detector



RFMD-100 Motion detector



RFSLT-S3 Wireless hydrostatic level sensor



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



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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, 2×8 A (total)



- 1× 300 VA, MATTER



RFDEL-71B-SL/MT Universal dimmer, 1-channel



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



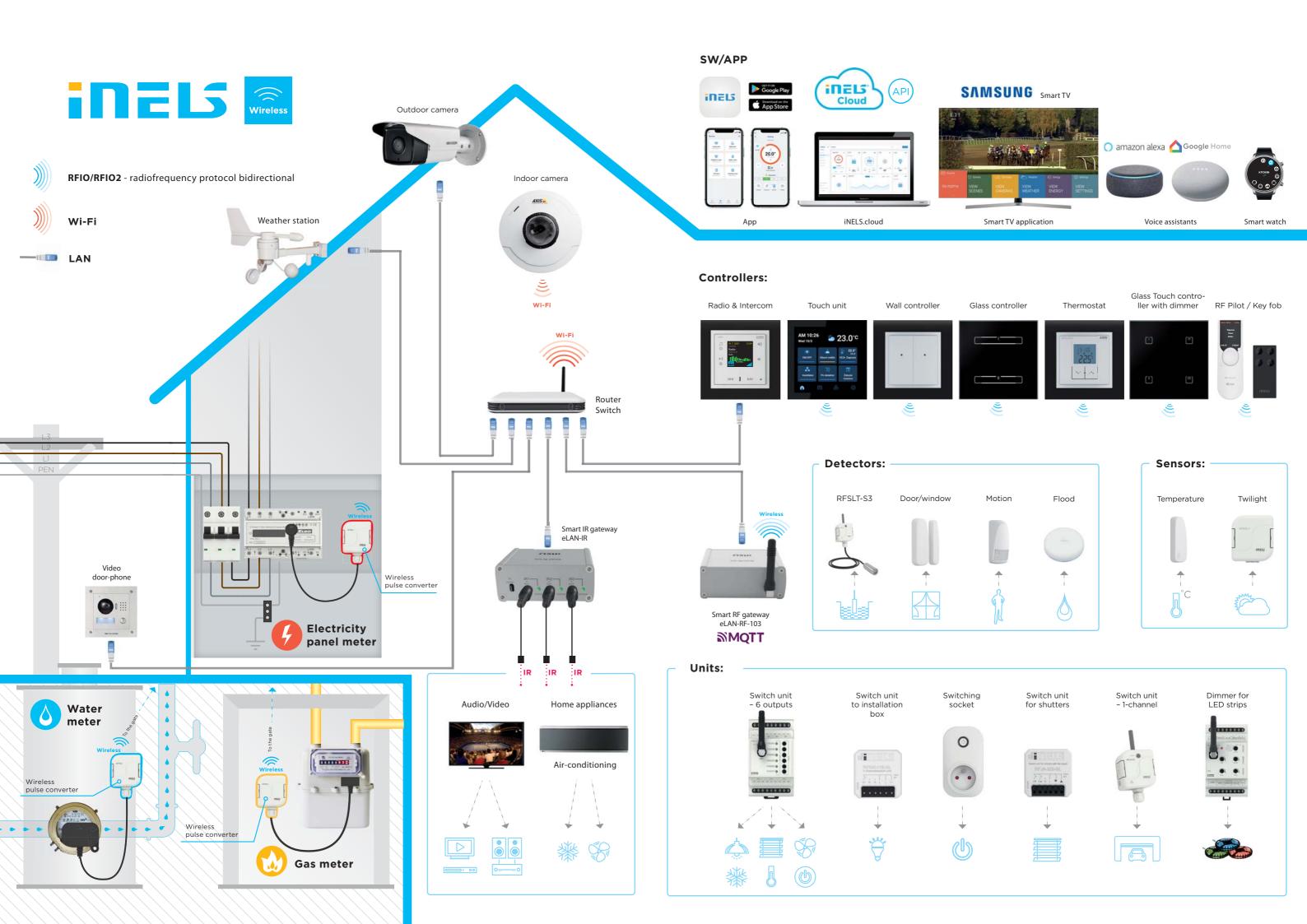
External antenna Gain: 5 dBi



AN-E3 External antenna Gain: 3 dBi, IP67



Extension cable for external antenna 10 m

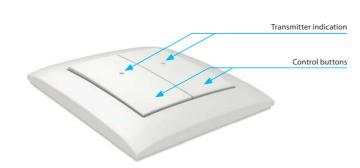


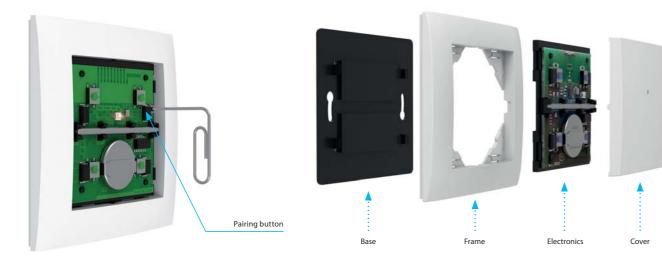


Technical parameters	RFWB-20/G(GB)	RFWB-40/G(GB)
Supply voltage:	3 V CR 2032 battery	
Battery life:	around 5 years based	d on frequency of use
Transmission indication:	red	LED
Number of buttons:	2	4
Communication protocol:	RFIO	
Frequency:	866–922 MHz (for more information see p. 81)	
Signal transmission method:	unidirectionally addressed message	
Range:	in open space up to 200 m	
Other data		
Operating temperature:	-10 to	+50 ℃
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, E	N 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 LOGUS⁹⁰ 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. 84.

Device description

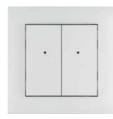






RFWB-20/G





RFWB-40/GB

RFWB-40/G

RFOWB-20 | Outdoor controller, 2 buttons



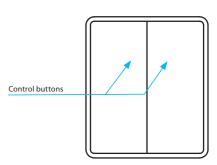
EAN code: RFOWB-20: 8595188181471

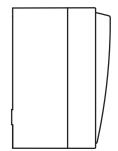
Technical parameters	RFOWB-20
Supply voltage:	3 V CR 2032 battery
Battery life:	around 5 years based on frequency of use
Transmission indication:	Integrated red LED
Number of buttons:	2
Communication protocol:	RFIO
Frequency:	866–922 MHz (for more information see p. 81)
Signal transmission method:	unidirectionally 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

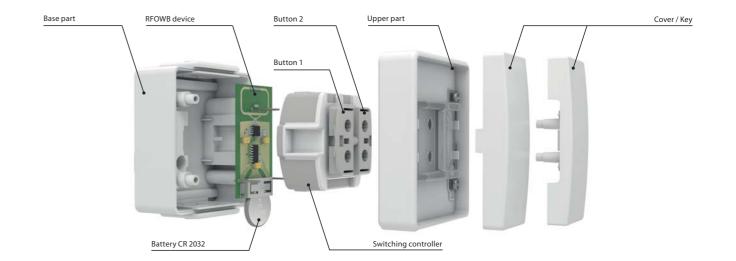
• The wireless push-button controller with IP65 protection is used to control iNELS Wireless components and protect them from the outdoor environment.

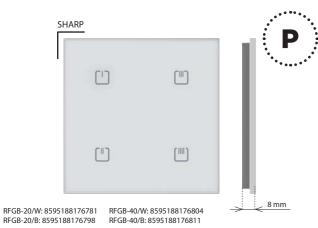
- 2 buttons allow (independently of each other) control of an unlimited number of components (actuators).
- The controller is suitable for control from the pool, garden, terrace, and pergola. It can be used as an uncovered bell button.
- Fastening with screws or double-sided tape.
- Battery power supply (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. 84

Device description





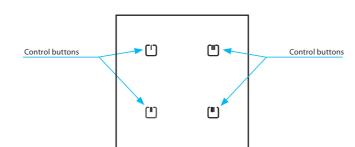


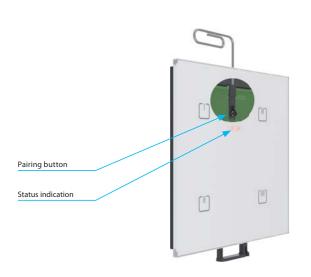


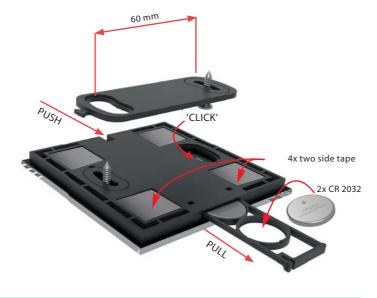
Technical parameters	RFGB-20	RFGB-40
Supply voltage:	2x 3 V CR 2032 batteries	
Battery life:	around 2 years based	d on frequency of use
Transmission indication:	red	LED
Number of capacitive buttons:	2	4
Communication protocol:	RF	10
Frequency:	866–922 MHz (for more	e information see p. 81)
Signal transmission 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	

- 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. 84.

Device description

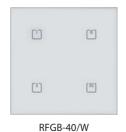






Variants



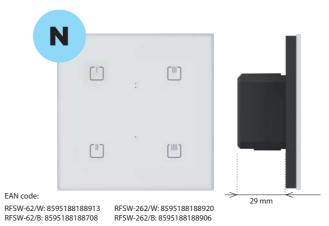






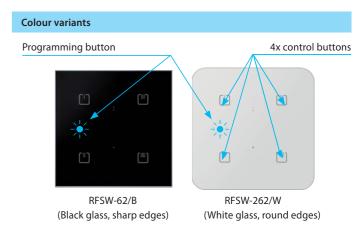
RFGB-40/B

RFSW-62, **RFSW-262** | Glass touch controller with output relays

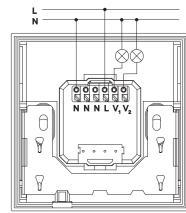


Technical parameters	RFSW-62/230V, RFSW-262/230V
Supply voltage:	230 V AC / 50-60 Hz
Apparent power:	1.1 VA
Dissipated power:	0.8 W
Supply voltage tolerance:	±10 %
Output	
Number of contacts:	2 switchingw
Breaking capacity:	8 A / AC1
Current rating:	2000 VA / AC1
Peak current:	10 A / <3 s
Switching voltage:	250 V AC1
Mechanical life:	1x10³
Electrical life (AC1):	1x10³
Control	
Wireless:	up to 25-channels (buttons)
Communication protocol:	RFIO2
Frequency:	866–922 MHz (for more information see p. 81)
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	
Terminals:	0.5 - 1 mm ²
Other data	
Operating temperature:	-10 to +50 °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:	148 g
Related standards:	EN 60730, EN 63044, EN 301489, EN 300 220

- The glass design controller with two output relays is used to control appliances and lights.
- The touch buttons on the circuit breaker allow you to directly control the output relay as well as other components of the installation.
- The backlight intensity (white LED) of the buttons is automatically adjusted depending on the ambient lighting.
- ${\boldsymbol{\cdot}}$ 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
- 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), 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. 84.



Connection

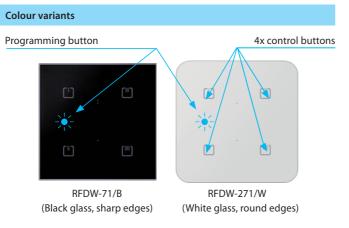




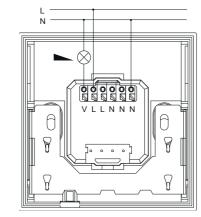
Technical parameters	RFDW-71/230V, RFDW-271/230V	
Supply voltage:	230 V AC / 50-60 Hz	
Apparent power:	1.1 VA	
Dissipated power:	0.8 W	
Supply voltage tolerance:	±10 %	
Dimmed load:	R,L,C, LED, ESL	
Output		
Contactless:	2 x MOSFET	
Load capacity:*	max. 160 W	
Control		
Wireless:	up to 25-channels (buttons)	
Communication protocol:	RFIO2	
Frequency:	866–922 MHz (for more information see p. 81)	
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. 84.

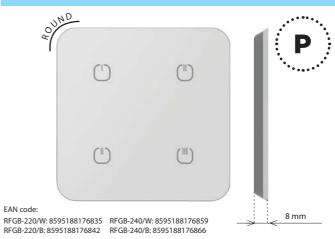


Connection





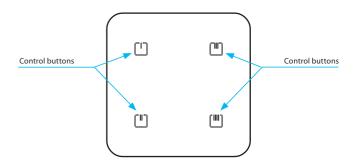
RFGB-220/W, RFGB-220/B, RFGB-240/W, RFGB-240/B | Glass touch controllers, ROUND

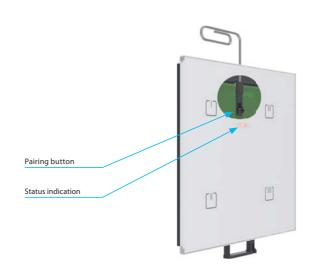


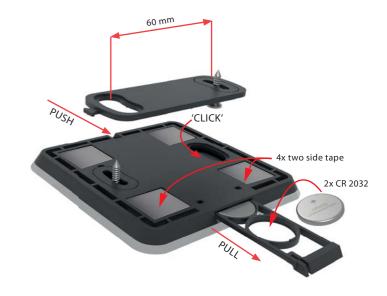
Technical parameters	RFGB-220	RFGB-240
Supply voltage:	2x 3 V CR 2032 batteries	
Battery life:	around 2 years based on frequency of use	
Transmission indication:	red	LED
Number of capacitive buttons:	2	4
Communication protocol:	RF	10
Frequency:	866–922 MHz (for more information see p. 81)	
Signal transmission method:	unidirectionally a	ddressed 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	

- 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. 84.

Device description







Variants







RFGB-220/B

RFGB-240/B

RF Pilot/W, RF Pilot/A | Remote Wireless controller with display



Technical parameters	RF Pilot/W	RF Pilot/A
Display		
Type:	colour	OLED
Resolution:	128 x 12	8 pixels
Side ratio:	1:	1
Visible surface:	26 x 26	б mm
Backlighting:	self-illumin	ating 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. 81)
Other data		
Operating temperature:	0 to +	55 ℃
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

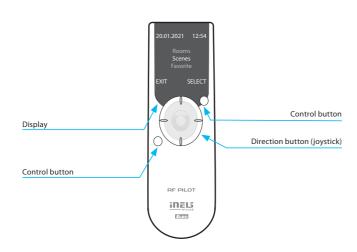




BACK	PROCEED
20.01.2021 Switch On Switch Off Brightness: 0%	12:54
BACK	PROCEED

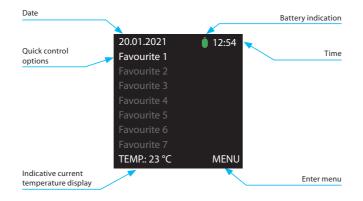
- The Remote Wireless controller with display is a central controller for switching electrical appliances and equipment, dimming lights, controlling blinds, etc.
- · Designed in white and anthracite with colour OLED display.
- 4 directional joystick + 2 buttons for intuitive operation.
- · Option of 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
- 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

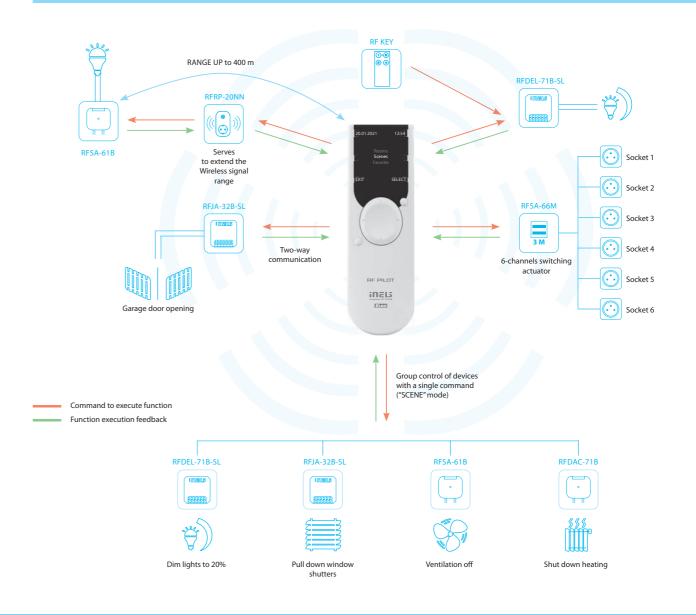


Display description

Colour LED display



RF Pilot/W, RF Pilot/A | Remote Wireless controller with display





- 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
- \bullet 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



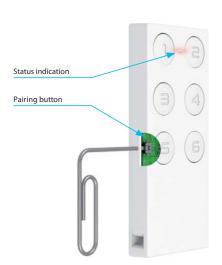
- the regulation of light intensity (light bulbs, LED strips, halogen lights with electrical or coil transformer, fluorescent tubes with dimmable ballast 1-10 V)
- customizable names of individual dimmed circuits (such as "lights" or "living room")
- "sunrise/sunset" imitation light gradually goes on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

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. 81)	
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. 84.

Device description	
Control buttons Prog button	Control buttons



Variants





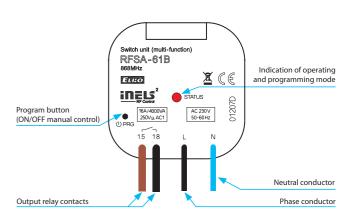


EAN code: RFSA-61B: 8595188136242

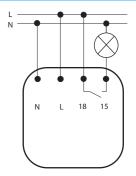
Technical parameters	RFSA-61B/230V	
Supply voltage:	230 V AC	
Supply voltage frequency:	50-60 Hz	
Apparent input:	7 VA/cos φ= 0.1	
Dissipated power:	0.7 W	
Supply voltage tolerance:	+10 %; -15 %	
Output		
Number of contacts:	1× NO, non potencial	
Rated current:	16 A/AC1	
Switching power:	4000 VA/AC1, 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. 81)	
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 mm², 2x 2.5 mm²	
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







Technical parameters RFSAI-61BPF-SL RFSAI-11B-SL RFSAI-61B-SL RFSAI-62B-SL





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

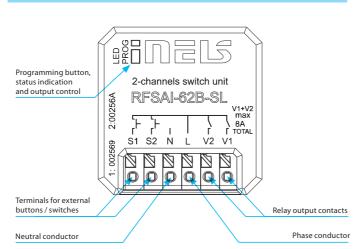
Supply voltage:	230	V AC		
Supply voltage frequency:	50-60 Hz			
Apparent input:	$7 \text{ VA} / \cos \varphi = 0.1$			
Dissipated power:	0.7	w W		
Supply voltage tolerance:	+10 %	; -15 %		
Output				
Number of contacts:	1x switching	2xswi	tching	
Rated current:	8 A /	AC1		
Switching power:	2000 V	A / AC1		
Peak current:	lpeak <110A 300us / ma	x. input capac	ity 125 uF	
Switching voltage:	250 \	/ AC1		
Mechanical service life:	1x	10 ⁷		
Electrical service life (AC1):	1x	10 ⁵		
Control				
Wireless:	25-channels 2x12		hannels	
Number of functions:	6 1	6	6	
Communication protocol:	RFIO2			
Frequency:	866–922 MHz (for more information see p. 81)			
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 mm² solid/flexible			
Dimensions:	43 x 44 x	43 x 44 x 22 mm		
Weight:	31g	4.	5 g	
Related standards:	EN 60730, EN 63044, E	EN 60730, EN 63044, EN 300 220, EN 301 489		

Function description

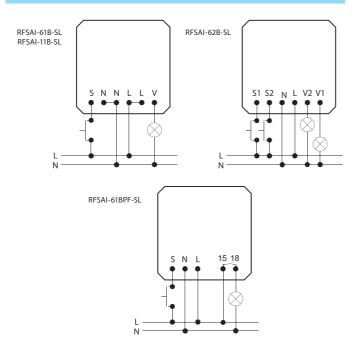
- 1. Button, impulse relay and time functions of delayed start or return with time setting 2 s-60 min. Any function can be assigned to each output
- 2. The programming button on the element also serves as a manual input control.

- 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



RFJA-32B-SL | Switch unit for the shutters

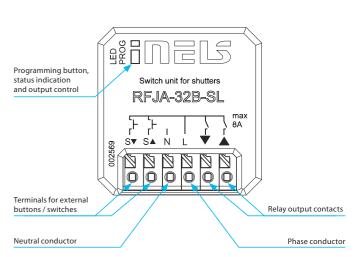


EAN code:

RFJA-32B-SL: 8595188182546			
Technical parameters	RFSAI-32B-SL		
Supply voltage:	230 V AC		
Supply voltage frequency:	50-60 Hz		
Apparent input:	$7 \text{ VA} / \cos \varphi = 0.1$		
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. 81)		
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	0.2 - 1.5 mm²		
cross-section (mm²):	solid / flexible		
Dimensions:	43 x 44 x 22 mm		
Weight:	45 g		

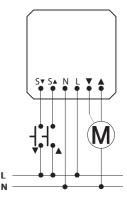
- The switching unit for shutters has 2 output channels used to control garage doors, gates, blinds, awnings...
- They can be combined with Controllers or iNELS Wireless System Components.
- \bullet The BOX version offers mounting directly in the installation box, ceiling or motor drive cover.
- RFJA-32B-SL: 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
- 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 AgSnO₃.

Device description



Function description

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



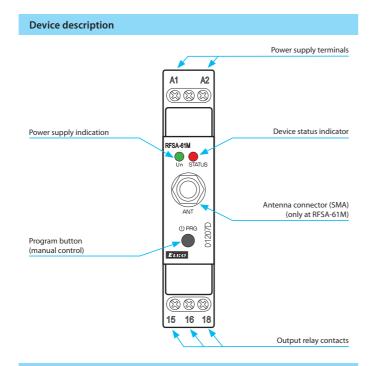


RFSA-61MI: 8595188181549

Technical parameters	RFSA-61MI/230V	RFSA-61M/230V
Supply voltage:	110-23	30 V AC
Supply voltage frequency:	50-60 Hz	
Apparent input:	2.7 VA cos φ= 0.6	
Dissipated power:	1.6	2 W
Supply voltage tolerance:	+10%	/-25 %
Output		
Number of contacts:	1x char	ngeover
Rated current:	16 A	A/AC1
Switching power:	4000 VA/AC	C1, 384 W/DC
Peak current:	30 A	\/<3 s
Switching voltage:	250 V AC	1/24 V DC
Contact material:	Ags	SnO ₂
Mechanical service life:	3x	:10 ⁷
Electrical service life (AC1):	0.7	x10 ⁵
Control		
Wireless:	up to 25-char	nnels (buttons)
Communication protocol:	RFIO2	
Frequency:	866–922 MHz (for more information see p. 81)	
Repeater function:	у	es
Manual control:	PROG (ON/	OFF) button
Range:	in open spac	ce up to 200 m
Wireless Antenna:	integrated	external *
Other data		
Operating temperature:	-15 °C to	o +50 °C
Operating position:	a	ny
Mounting:	DIN rail	EN 60715
Protection:	IP20 from th	e front panel
Overvoltage category:	I	II.
overvoltage category.	2	
		2
Contamination degree:		max. 2x 1.5/
Contamination degree: Connecting conductor cross-section (mm²):	max. 1x 2.5,	-
Contamination degree: Connecting conductor	max. 1x 2.5, with a hollo	max. 2x 1.5/
Contamination degree: Connecting conductor cross-section (mm²):	max. 1x 2.5, with a hollo	max. 2x 1.5/ w max. 1x 2.5

^{*} 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
- · Memory status can be pre-set in the event of a power failure.



Connection



RFSA-66MI, RFSA-66M | Switch unit, 6-channels

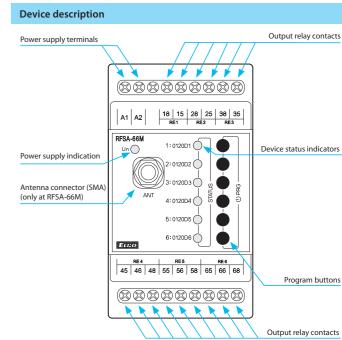


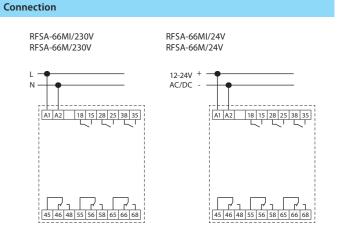
RFSA-66MI/230V: 8595188181556 RFSA-66M/230V: 8595188137003 RFSA-66MI/24V: 8595188181563 RFSA-66M/24V: 8595188152914

KFSA-66MI/24V: 8595188181563	KF5A-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/DO
SELV:	no	yes	no	yes
Supply voltage frequency:		AC 50-	-60 Hz	
Apparent input:	min. 2 VA/		min. 2 VA/	
	max. 5 VA	-	max. 5 VA	-
Dissipated power:	min. 0.5W/		min. 0.5W/	
	max. 2.5W	max. 1.8 W	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 V	/A/AC1	
Peak current:		10 A	/<3 s	
Switching voltage:		250 V	/ AC1	
Contact material:		AgSnO ₂		
Mechanical service life:		1x1	10 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. 81)			
Repeater function:		yes		
Manual control:		PROG (ON/O	OFF) button	
Range:		in open spac	e up to 200 m	า
Wireless Antenna:	integ	grated	exte	ernal *
Other data				
Operating temperature:		-15 °C to	o +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/		
cross-section (mm²):	with a hollow max. 1x 2.5			
Dimensions:		90 x 52 x 65 mm		
Weight:	17	71 g	17	9 g
				N 301 489

^{*} AN-I antenna (with SMA connector) is part of packaging. Other antennas with cable are available on the p. 81. 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
- 6 function: button, impulse relay and time function of delayed start or return with time setting range of 2 s – 60 min. Function description
- 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.







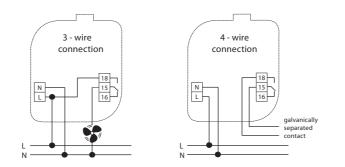
RFUS-61/230V: 8595188145268 RFUS-61/120V: 8595188152570

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):	0.7x10⁵	
Control		
Wireless:	up to 25-channels (buttons)	
Communication protocol:	RFIO2	
Frequency:	866–922 MHz (for more information see p. 81)	
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	max. 1x 2.5, max. 2x 1.5/	
wires (mm²):	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
- The switching unit may be controlled by up to 25-channels.
- The programming button on the unit is also used for manual control
- 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 Opening for wall mounting Ø 4.3 mm Programming button (manual control) ndication of operating and Neutral conductor Output contact relay Phase conductor Opening for wall mounting Ø 4.3 mm Bushing M16x1.5 for connecting cable with max. diameter of 10 mm

Connection



RFSC-61N | Switching socket-plug



RFSC-61N/Schuko: 8595188182508 RFSC-61N/British: 8595188182522

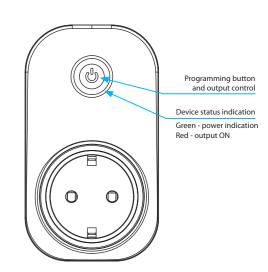
Technical parameters	RFSC-61N/230V	
•	50 5111, 2501	
Supply voltage:	230 V AC	
Supply voltage frequency:	50-60 Hz	
Apparent power:	$7 \text{ VA } / \cos \phi = 0.1$	
Dissipated power:	0.7 W	
Supply voltage tolerance:	+10 %; -15 %	
Output		
Number of contacts:	1x switching	
Rated current:	16 A / AC1	
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. 81)	
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
- 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





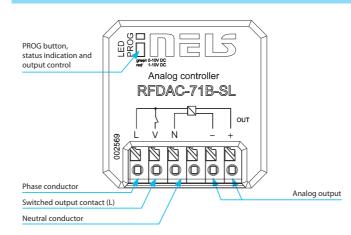
EAN code:

RFDAC-71B: 8595188182676

Technical parameters	RFDAC-71B	
Supply voltage:	110–230 V AC	
Supply voltage frequency:	50-60 Hz	
Apparent input:	$7 \text{ VA / } \cos \varphi = 0.1$	
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. 81)	
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 mm², 2 x 2.5 mm²	
Dimensions:	49 x 49 x 21 mm	
Weight:	52 g	
Related standards:	EN 60730, EN 63044, EN 300 220, EN 301 489	

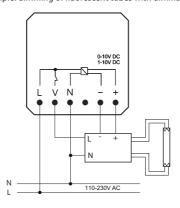
- The device with analog output 0(1)–10 V is used to control devices, luminaires, thermal actuators and thermal heads which are equipped with such an input.
- They can be combined with detectors, controllers, iNELS Wireless or system components.
- Potential free analog output 0(1)-10 V, contact relay 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

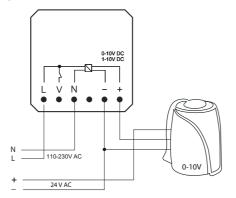


Connection

Connection example: dimming of fluorescent tubes with dimmable ballast



Connection example: with thermo valve



RFDEL-71B-SL | Universal dimmer, 1-channel

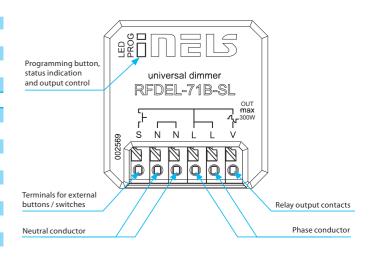


EAN code: RFDEL-71B-SL: 8595188183611

Technical parameters	RFDEL-71B-SL/230V	
Supply voltage:	230 V AC / 50 Hz	
Supply voltage frequency:	50-60 Hz	
Apparent power:	$5 \text{ VA } / \cos \varphi = 0.1$	
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. 81)	
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.

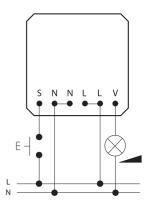
Device description



Connection



HAL 230V	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	⊭ ∷Z	4	**
R	L	C	LED	ESL
resistive	inductive	capacitive	light	saving





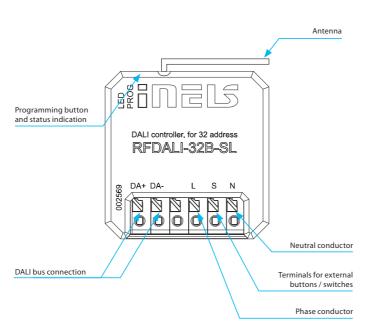
EAN code: RFDALI-04B-SL: 8595188185271

RFDALI-32B-SL: 8595188184342

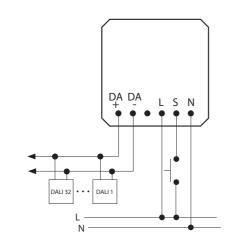
Technical parameters	RFDALI-04B-SL RFDALI-32B-SL	
Supply voltage:	100-230 V AC / 50 Hz	
Supply voltage frequency:	50/60 Hz	
Apparent power:	$5 \text{ VA } / \cos \phi = 0.1$	
Dissipated power:	3 W	
Supply voltage tolerance:	+10/ -15 %	
Connection:	4-wire, L, N, DA+,DA-	
Output DALI		
Number of devices:	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. 81)	
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 mm² 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 confi guration 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 insuffi cient 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 off ers mounting directly in the installation box, ceiling or luminaire cover, screwless terminals for connection.

Device description



Connection



RFDEL-71M | Universal dimmer, 1-channel

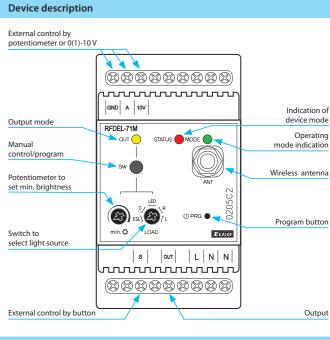


EAN code: RFDEL-71M: 8595188148979

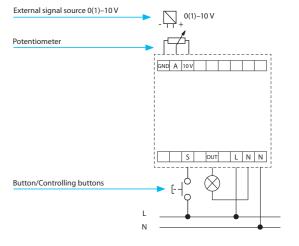
Technical parameters	RFDEL-71M/230V	RFDEL-71M/120V	
Supply voltage:	230 V AC	120 V AC	
Supply voltage frequency:	50 Hz	60 Hz	
Apparent power:	2.5 VA	1.1 VA	
Dissipated power:	0.8 W	0.6 W	
Supply voltage tolerance:	+10/-	-15 %	
Output			
Dimmed load:	R,L,C, L	ED, ESL	
Contactless:	2 x M0	OSFET	
Load capacity:*	max. 600 W	max. 300 W*	
Control			
Wireless:	up to 32 chan	nels (buttons)	
Communication protocol:	RFI	102	
Frequency:	866–922 MHz (for more information see p. 81)		
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:	potentiomete	er 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 equiped with LED.
- Control can be performed by:
- a) detectors, Controllers and System units iNELS Wireless
- b) by control signal 0(1)–10 V
- c) potentiometer
- d) 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.



Connection and external control options





EAN code:

RFDEL-76M/230V: 8595188182058

RFDEL-76M/120V: 8595188182096

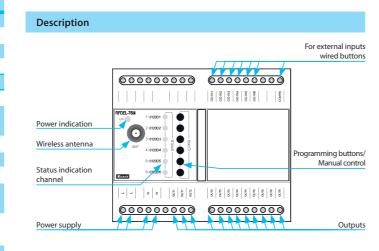
Technical parameters	RFDEL-76M/230V RFDEL-76M/1		
Supply voltage:	230 V AC	120 V AC	
Supply voltage frequency:	50 Hz	60 Hz	
Power supply indication:	green	LED Un	
Supply voltage tolerance:	+10/-	-15 %	
Output			
Output:	12x MOSFE	T transistor	
Load type *:	R - resistive, L - indu	ctive, C - capacitive,	
	ESL - econo	omical, LED	
Minimum output power:	10	VA	
Max. output power/channel:	150 VA	75 VA	
Possible to connect outputs:	y	es	
Maximum power when	max. 900 VA	max. 450 VA	
connecting all outputs:			
Output protection:	thermal/short-term	overload/longterm	
	overload/s	hort circuit	
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 i	NELS Wireless controllers)	
Communication protocol:	RF	102	
Function repeater:	y.	es	
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 nor	mal conditions	
Overvoltage category:	I	l.	
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		

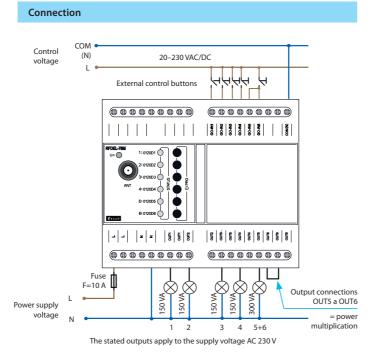
*Warning: it is not allowed to simultaneously connect loads of inductive and capacitive type in the same channel.

Types of connectable loads

HAL. 230 V	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	¥ ∷Z	4	#
R	L	C	LED	ESL
resistive	inductive	capacitive	light	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
- 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
- Electronic overcurrent, thermal and short-circuit protection, which switches
- 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.





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

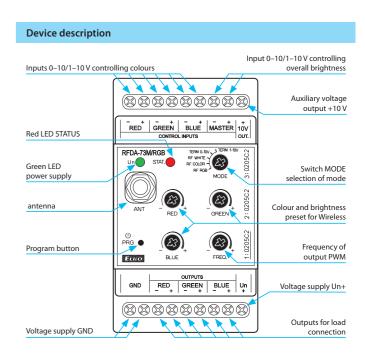


EAN code: RFDA-73M/RGR: 8595188146814

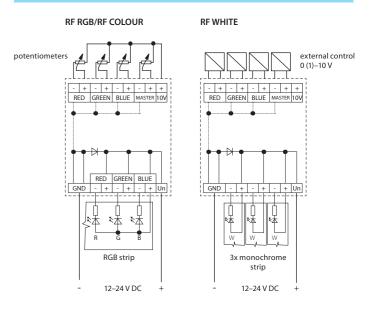
Technical parameters	RFDA-73M/RGB
Supply terminals:	Un+, GND
Supply voltage:	12–24 V DC stabilized
Maximum power without load:	0.8 W
Output	
Dimmed load:	LED strip 12 V, 24 V with common anode
	RGB LED strips 12 V, 24 V with common anode
Number of channels:	3
Rated current:	3x5 A
Peak current:	3x10 A
Switching voltage:	Un
Control	
Wireless:	up to 32-channels (buttons)
Communication protocol:	RFIO2
Frequency:	866–922 MHz (for more information see p. 81)
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	max. 1x 2.5, max. 2x 1.5/
wires (mm²):	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 singlecolour LED strips or one RGB LED strip.
- The expanded selection of control modes enables it to be combined with: a) detectors, controllers and system units iNELS Wireless
- b) device with output signal 0 (1)-10 V c) potentiometer.
- The unit's 3-MODULE design with switchboard mounting enables connection of dimmed load 3x 5 A, which represents:
- a) single-colour LED strip 7.2 W 3x 8 m b) 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.



Output variations and external control options

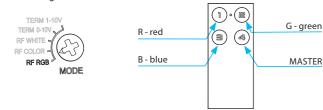


Dimmer

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 WHITE

Switch settings in MODE:



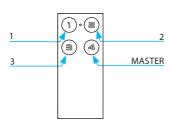
This works in a mode where it acts like three independent dimmers for 12–24 V. Each channel can be programmed independently of one another and has its own address.

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 controling RBG 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 el AN-RF

TERM 0-10 V and TERM 1-10 V

Switch settings in MODE:



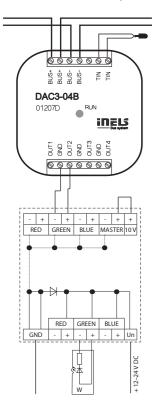


Modes TERM 0-10 V and TERM 1-10 V.

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.

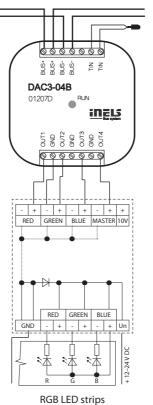
Control options

TERM 0(1)–10 V DC - monochrome LED strips



LED strips

TERM 0(1)–10 V DC - RGB LED strips



RFDSC-71N | Dimming socket-plug



EAN code:

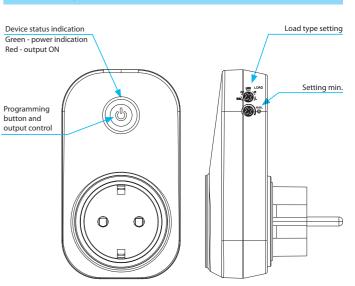
RFDSC-71N/Schuko: 8595188183604 RFDSC-71N/British: 8595188183581 RFDSC-71N/French: 8595188183598

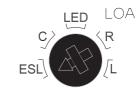
Technical parameters	RFDSC-71N/230V
Supply voltage:	230 V
Supply voltage frequency:	50-60 Hz
Apparent power:	1.1 VA
Dissipated power:	0.8 W
Supply voltage tolerance:	+10/-15 %
Output	
Contactless:	2 x MOSFET
Load capacity:*	max. 200 W
Dimming load:	R, L, C, LED, ESL
Control	
Wireless:	up to 32-channels (buttons)
Communication protocol:	RFIO2
Frequency:	866–922 MHz (for more information see p. 81)
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

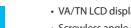




Types of loads ESL dimmable energy saving lamps C halogen bulbs with electronic transformer (capacitive load) LED LED light sources R classic light bulbs (resistive load) L halogen bulbs with wound transformer (inductive load)



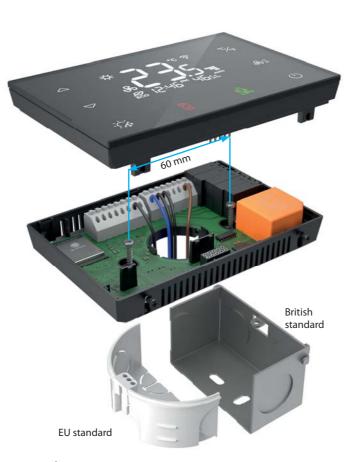




The picture of device is illustrative, the icons (symbols) are configurable by the customer.

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. / ele	ectrical 100.000 switches	
Analog Output:	2x 0-10\	V, 10 mA	
Inputs (external)			
Binary:	ro potential-free contact,	terminals IN1/IN2 against	
	GND, maximum	wire length 30m	
Temperature:	1x for external tempe	erature sensor TC/TZ,	
	terminals IN1/T & IN2/	TC, temperature range	
	-20 to +120 ° C, a	accuracy ± 0.5 ° C	
Sensors (internal)			
Temperature:	range 0 to +55 °C, accura	cy \pm 0.5 °C from the range	
Humidity:	0 - 99% RH, accuracy	± 3 °C from the range	
Proximity:	backlight activation w	vhen zooming <25 cm	
Lighting:	adaptive backlight control	of the display and buttons	
Communications			
Radio:	iNELS RFIO2, frequ	iency 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 v	web interface	
Connection			
Terminal block:	16 pole, screv	vless (push-in)	
Wire cross section:	0.2 - 1.5 mm ²	solid / flexible	
Mechanics			
Operating temperature:	- 0 to 50 °C /	max 80% RH	
Storage Temperature:	- 20 to	0 60 °C	
Enclosure:	IP30 (m	ounted)	
Overvoltage Category:	I	l.	
Pollution Degree:	2		
Working position:	horiz	ontal	
Installation:	on EU/BS box with 60 mm screw pitch		
Dimension:	120x80x27 mm		
Weight:	230g		
Shape:	SHARP edges		
Color (glass and plastic):	White Black		
Order Code:	8915 8914		
EAN Code:	8595188189156 8595188189149		
Standard:	EN 60730, EN 63044, EN 301489		
	,,,		

- 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 (door's magnet detector); of which
- 1x input for external temperature sensor TC/TZ
- · 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 device setup (via web browser) and connection to iNELS.Cloud, iNELS APP, HRS and BMS via MQTT protocol
- Modbus RTU for external HVAC devices and supervision software
- Power supply: AC 110 230V AC
- Installation on round (EU) and square (BS) boxes
- Possibility of the glass and icons customization icons.inels.com



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



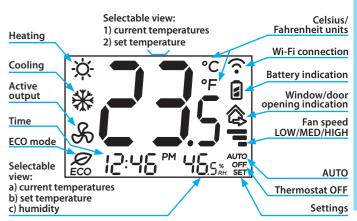
Thermister: NTC 12K

- Protection: IP67
- Cable: 2 x 0.25 mm² 12. IN1 temperature in
- Ending: cavity

RFTC-3 | Glass touch thermostat for fancoils

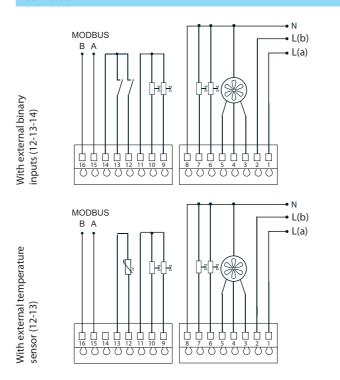
Temperature increase Temperature decrease Mode: heating/ cooling Selectable button 1 Celsius/Fahrenheit mode Fan speed Master ON/OFF Selectable button 2

Display description



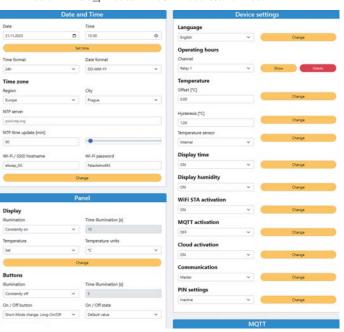
Connection

Buttons description



Web configuration

Wi-Fi SSID: RFTC-3_product number IP address: 192.168.1.1



Clamp description

١.	L(a)	power:	supply	/ phase	wire	

2. L(b) phase - identical to phase L(a) - see. *

HIGH fan top speed
 MED fan medium speed
 LOW fan lowest speed
 HEAT valve 0/1 for heating
 COOL valve 0/1 for cooling
 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 A16. BUS B Modbus B

Option for an external temperature sensor TC/TZ

12. IN1 temperature input NTC13. IN2 temperature input NTC

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

Variants



BLACK RFTC-3/B Order code: 8914 EAN: 8595188189149 WHITE RFTC-3/W Order code: 8915 EAN: 8595188189156 RFTC-10/G: 8595188145329

EAN code:

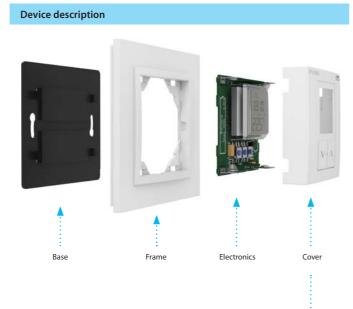
Technical parameters	RFTC-10/G
Supply voltage:	2 x 1.5 V AAA batteries
Battery life:	1 year based on frequency of use
Temperature correction:	2 buttons V/∧
Temperature offset:	±5°C
Display:	LCD, characters/see Display description
Backlighting:	active 10 s after pressing
Transmission indication/function:	symbols
Temperature measurement:	1x internal sensor
Temp. measurement range	0 to +55 °C;
and accuracy:	0.3 °C of the range
Control	
Communication protocol:	RFIO
Frequency:	866–922 MHz (for more information see p. 81)
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.	
RFSA-6x:	1
Program:	х
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
\checkmark	√	√	_	_

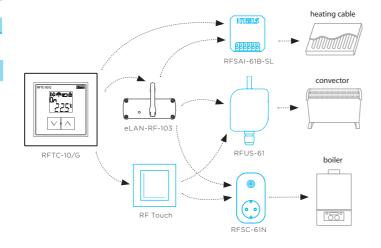
Display description	
Signal strength	
Circuit temperature set	Battery status indication
Circuit temperature measured	Locked for adjustment
Circuit status indicator	Temperature
Temperature/time indication	measured in °C/°F

ullet 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 \pm 5 °C. The temperature correction is valid until the next program change in the given system $% \left(1\right) =\left(1\right) \left(1$

- \bullet 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).







RFTC-50/G | Autonomous temperature controller



RFTC-50/G

EAN code: RETC-50/G: 8595188148641

NFTC-30/G. 8393188148041
Technical paramete
Supply voltage:

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/∧
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 866-922 MHz (for more information see p. 81) Frequency: Repeater function Signal transmission method: bidirectionally addressed message Range: in open space up to 100 m Minimum control distance:

Other data		
Max. number of control.		
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
-	-	\checkmark	\checkmark	-

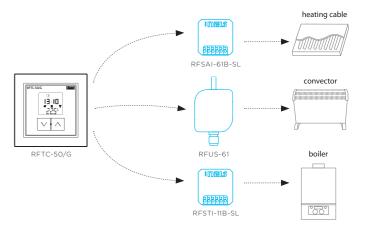
Display description



- RFTC-50/G is a separate thermostat that allows wireless control of up to 4 multifunctional switching components, e.g. RFSAI-6x, RFUS-61,
- 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
- 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).









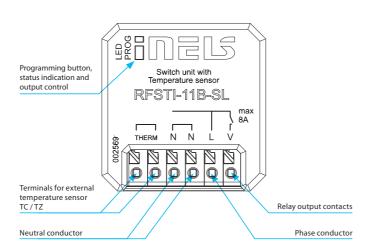
EAN code: RFSTI-11B-SL: 8595188184045

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

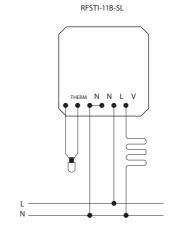
Dissipated power.	0.7 **	
Supply voltage tolerance:	+10 %; -15 %	
Temp. measurement range	-20 to +50 °C	
and accuracy:	0.5 °C of the range	
Output		
Number of contacts:	1x switching	
Rated current:	8 A / AC1	
Switching power:	2000 VA / AC1	
Peak current:	10 A / <3 s	
Switching voltage:	250 V AC1	
Mechanical 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. 81)	
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 mm² 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 underfloor 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 $^{\circ}\text{C}$ 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
- 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



RFTI-20 | Temperature and humidity sensor



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 activation	
Transmission indication/function:	red LED	
Temperature and humidity measurement:	integrated digital sensor	
Temperature measurement	-10 to +50 °C;	
range and accuracy:	0.5 °C of range	
Humidity measurement	0 to 90 %;	
range and accuracy:	±3 % of range	
Output		
Communication protocol:	RFIO	
Frequency:	866–922 MHz (see p. 81)	
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 $+50\,^{\circ}\text{C}$ 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.
- ${\:\raisebox{3.5pt}{\text{\circle*{1.5}}}}\,$ (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





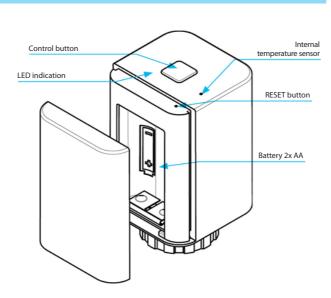
EAN code: RFATV-2: 8595188182591

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. 81)
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

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	33	

- 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

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,	silicon
	2x 0.25 mm ²	VO3SS-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-0	TZ-0
- length:	100 mm	110 mm
	_	

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

 $\tau65$ (95): time, which sensor needs to heat up on 65 (95) % of ambient temperature of environment, in which is located.

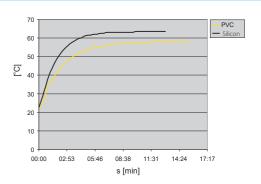
- Thermister temperature sensors are made of Negative Temperature Coefficient (NTC) embedded in a PVC or metal sleeve with a thermallyconductive sealer.
- Sensor TC
- lead-in cable to sensor TC is made of wire CYSY 2D x 0.5 mm/0.02".
- Sensor TZ
- cable VO3SS-F 2D x 0.5 mm/0.02" with silicone insulation 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 k Ω is \pm 5% by 25 °C/77 °F.

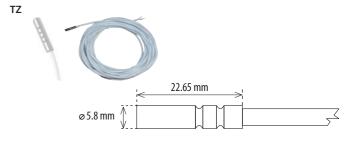
Diagramm of sensor warm up via air



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

25 mm 25 mm



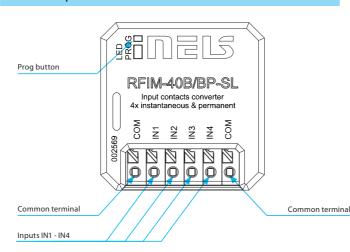
EAN code: RFIM-40B/BP-SI · 8595188184069

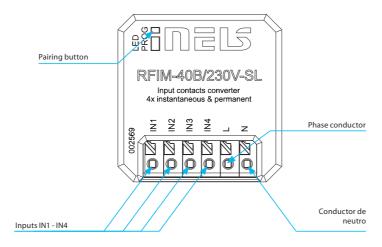
RFIM-40B/230-SI · 8595188184076

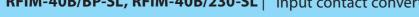
Technical parameters	RFIM-40B/BP-SL	RFIM-40B/230-SL
Supply voltage:	1x 3 V battery CR 123A	230 V AC
Battery life:	8 years based o	f frequency use
Indications/transfer function:	red	LED
Number of inputs:	4	4
Supply voltage tolerance:		+10 %; -15 %
Control		
Communication protocol:	RFI	02
Frequency:	866–922 MHz (for more	e information see p. 81)
Repeater function:	n	0
Signal transmission method:	unidirectionally a	ddressed 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, E	N 300 220, EN 301 489

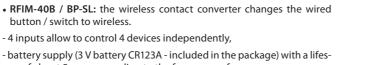
- pan of about 8 years according to the frequency of use,
- the contact can be permanently closed.
- RFIM-40B / 230-SL: the contact converter changes the button / switch with local mains supply to wireless.
- 4 inputs allow to control 4 devices independently,
- mains supply, the inputs respond to the 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/230-SL Order No.: 8407, see Pairing controllers

Device description











RFSG-1M | Input contact converter

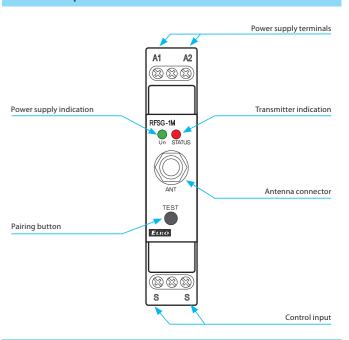
EAN code: RFSG-1M: 8595188142847

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. 81)	
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/	
cross-section: (mm²):	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	

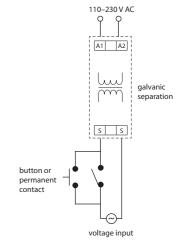
^{*} Max Tightening Torque for antenna connector is 0.56 Nm.

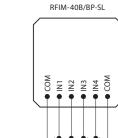
- This wireless contact converter is especially appropriate for wireless transmission of information on switching HDO.
- Thanks to the permanent power supply, it can also be used for partial transmission of information for control of an appliance or device.
- After leading in power to the "S" terminals, 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. 84.

Device description

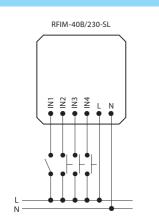


Connection





Connection

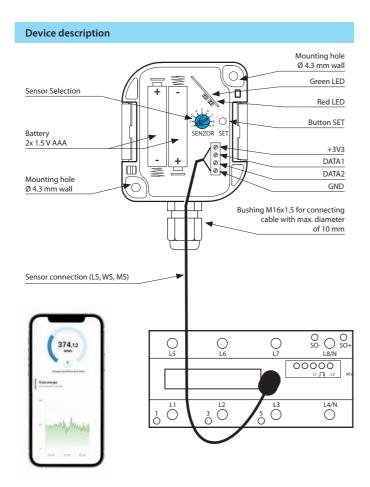




Technical parameters	RFTM-1
Power supply:	2x 1.5 AAA batteries
Battery Life:	Appr. 2 years, (depending on the type of sensor,
	frequency of transmissions and pulses)
Indication	
Setting mode:	
	Green LED flashes - active
	Red LED - flashes during impulse sensor registration
Communications Test	Green LED - communication OK
- Wireless STATUS:	Red LED - communication ERR
Normal operation:	no indication
Control	
Manual control:	button SET
Sensor Selection:	rotary potentiometer
Supported sensors	LS (LED sensor)
(not included in the package): $ \\$	MS, WS (magnetic sensor)
	S0 (Contact, open collector,
	reed magnetic contacts)
Output	
Communication protocol:	RFIO
Frequency	866–922 MHz (for more information see p. 81)
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.

- 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 "S0" (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.



RFSF-100 | Flood detector



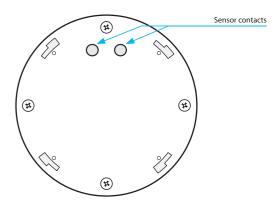
EAN code: RFSF-100: 8595188176828

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. 81)
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 nine 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.

Descritption



Function

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

Conductivity of liquids

Liquids suitable for detection		
Type of liquid	Resistivity [Ωcm]*	
Drinking water	5–10 kΩ	
Well water	2–5 kΩ	
River water	2–15 kΩ	
Rain water	15–25 kΩ	
Waste water	0.5–2 kΩ	
Seawater	~0.03 kΩ	
Salt water	~2.2 kΩ	
Natural/hard water	~5 kΩ	
Chlorinated water	~5 kΩ	
Condensed water	~18 kΩ	
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	

lr	nadmissible liquids
D	emineralised water
D	eionised water
В	ourbon
G	asoline
0	il
Li	iquid gases
P	araffin
Et	thylene glycol
P	aints
Н	igh alcohol-content
lie	quids

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

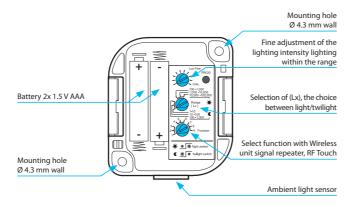


EAN code: RFSOU-1: 8595188147071

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 le	evels
Function (twilight switch)	
- Range 1:	1 to 10 lx
- Range 2:	10 to 100 lx
- Range 3:	100 to 1.000 lx
Function - \(\hat{\pi}\)- (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. 81)
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. 81)
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.

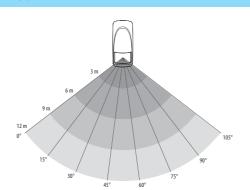


EAN code: RFMD-100: 8595188150293

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. 81)
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

- 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
- 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



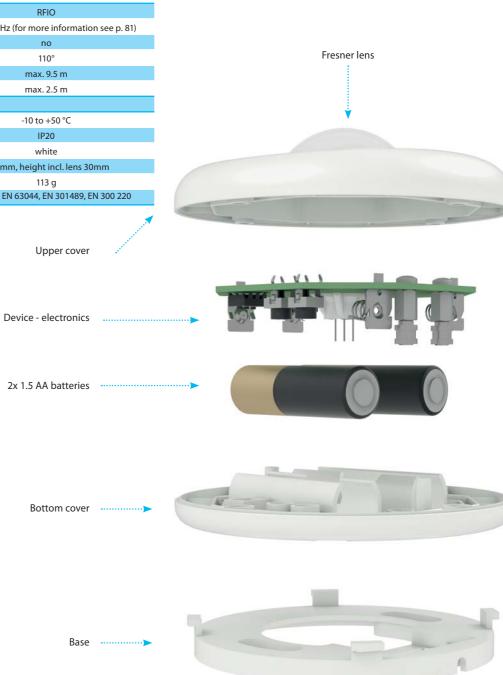
RFMD-200 | Motion detector for ceiling mounting



EAN code: RFMD-200: 8595188189194

Technical paramete	ers RFMD-200
Power supply:	2x 1.5 V AA batteries
Battery life:	up to 1 year, according to the number of activation
Drained battery indicator:	yes
Control	
Communication protocol:	RFIO
Frequency:	866–922 MHz (for more information see p. 81)
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

- ${\boldsymbol{\cdot}}$ The motion detector PIR is used to detect presence persons moving inside the building interior.
- 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 oc-
- Sensitivity settings of the PIR detector for eliminating unwanted trigger-
- Option of activation/deactivation of the LED indicator on the 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.







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 / min
Output	

EAN code:

Output		
Relay:	up to 6 relays	
Alarm:	wireless relay	
Output update frequency:	1× min (only when changing the level)	
Accuracy:	± 0,5%	
Time response:	≤ 100ms	
long-term stability:	\leq \pm 0,2 % span / year under reference conditions	
Mechanical stability:		
vibrations	10g, 25 Hz2 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

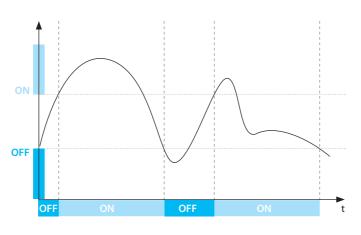
Control

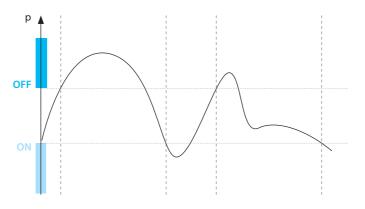
INELS standard	
Communication protocol:	RFIO
Frequency:	866–922 MHz (for more information see p. 81)
Repeater function:	no
Manual control:	application
Range:	in open space up to 200 m
Minimum control distance:	20 m
Bluetooth	
Communication protocol:	Bluetooth Low Energy
Frequency:	2,4GHz
Repeater function:	no
Manual control:	application
Range:	in open space up to 50 m
Other data	
Operating temperature:	−20 to +40 °C

Other data			
Operating temperature:	−20 to +40 °C		
Working position:	any		
Mounting:	screws		
Protection:	IP65, probe IP68		
Recommended power cable:	The sensor including the cable is included in the packag		
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
- 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 actors, 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

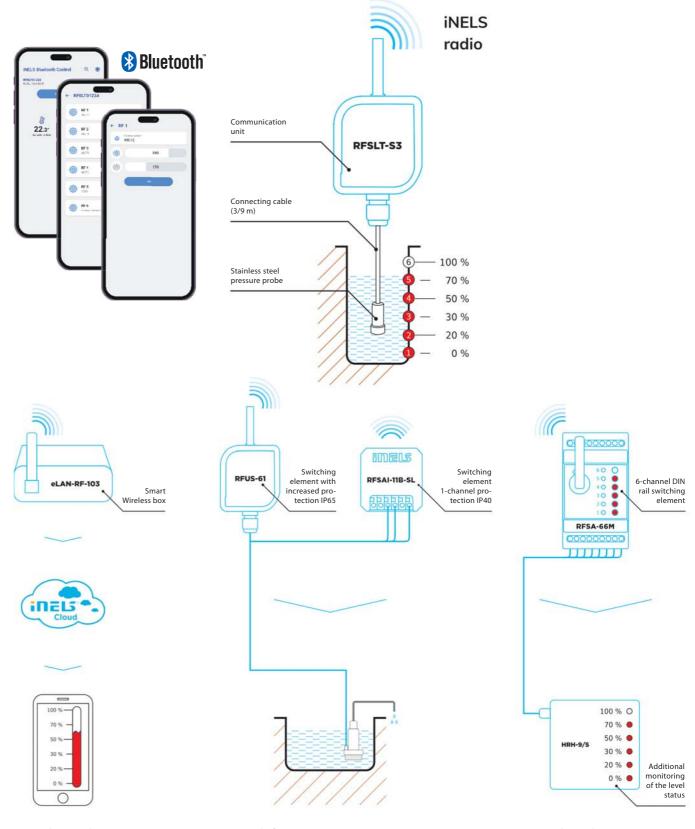




Materials (in contact with the medium)

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

RFSLT-S3 |Wireless hydrostatic level sensor



Signaling via the application on the phone

Control of 1 pump: RFSAI-11B-SL, RFUS-61 Control of 2 pumps: RFSA-62B-SL

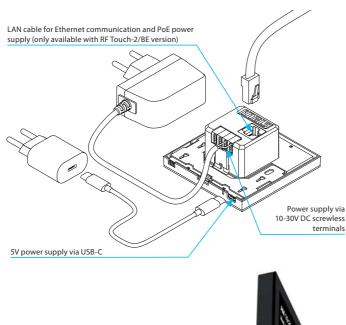
Control/signaling, 6× output (eg: MAX / MIN / CRITICAL MAX / CRITICAL MIN)

RF TOUCH-2/RR: 8595188189743

Technical parameters	RF Touch-2/BE	RF Touch-2/BR
Display		
Туре:	color TF	T LCD 4"
Distinction:	480 x 4	80 pixels
Aspect Ratio:	72 x 3	72 mm
Visible area:	active (v	vhite LED)
Backlight:	capa	ncitive
Power supply		
USB-C	5V	5V
Passive PoE:	24V	_
Terminal plate:	(10-3	0V DC)
Power consumption:	max	x. 3 W
Communication		
Radio		
Communication protocol:	RF	iO2
Frequency:	866-922 MHz (for mo	re 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	2.11n to 150 Mbps)
	A-MPDU a	nd A-MSDU
Frequency:	2.4	GHz
LAN		
Ethernet:	100 Mbit/s	
Sensors and notifications	S	
Temperature sensor	0-50 ° C; 0.2 °	C out of range
Humidity sensor	0-100%; 2%	of range (RH)
Proximity sensor	15	icm
Notification LED	R	GB
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:	a	ny
Installation:	into the ins	tallation box
Dimensions:	86 x 86	x 10 (37)
Weight (plastic):	12	20 g
Related standards:	EN 60720 EN 62044 EN 20	0 220, 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





RF Touch-2/BE, RF Touch-2/BR | Wireless touch unit



Screen preview





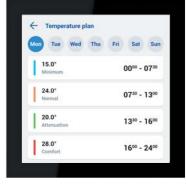


Controllers





Actors



MQTT



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. 81)	
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:	126 a	
	136 g	

- 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 Front panel LED indication Ethernet USB-C connector Connector of (RJ 45) LED indication Button RESET Back panel of SMA Wireless antenna 0 0 Wireless RFJA-32B-SI shutter communication RFSAI-61B-SL RFSAI-61B-SL Serves to extend REDEL-71B-SI the Wireless signal range DETECTORS The detector senses Command to execute function Function execution feedback

switches on alarm

RFRP-20N | Repeater to extend the range



EAN code:

RFRP-20NN/Schuko: 8595188145473 RFRP-20NN/British: 8595188145480

RFRP-20NN/French: 8595188145107

Technical parameters	RFRP-20N/230V
Supply voltage:	230V
¹ Supply voltage frequency:	50-60 Hz
Apparent input:	$7 \text{ VA } / \cos \phi = 0.1$
Dissipated power:	0.7 W
Supply voltage tolerance:	+10%/-15%
Control	
Communication protocol:	RFIO2
Frequency:	866–922 MHz (for more information see p. 81)
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

- 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.

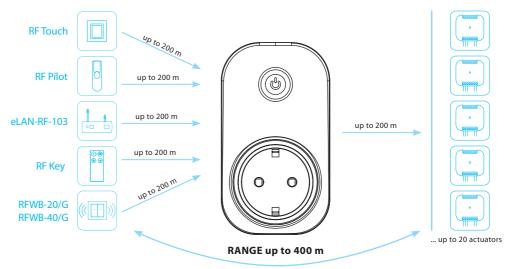
Produced in 3 designs of sockets/plugs:

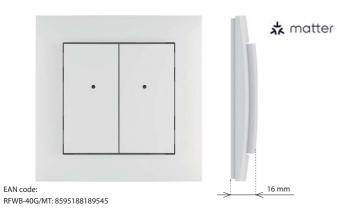






Signal transmission and extension for up to 20 components.

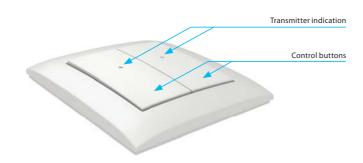


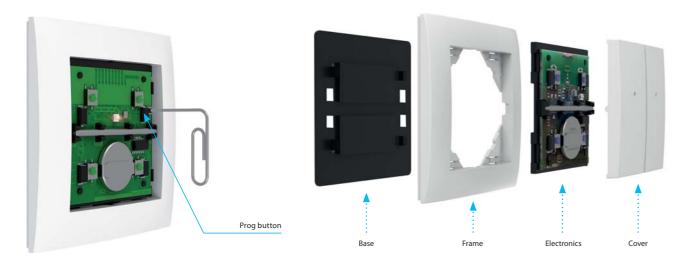


Technical parameters	RFWB-40G/MT	
Supply voltage:	3 V CR 2032 battery	
Battery life:	around 2 years based on frequency of use	
Transmission indication:	red LED	
Number of buttons:	4	
Application protocol:	Matter	
Communication protocol:	THREAD	
Frequency:	2,4 GHz	
Signal transmission method:	MESH	
Range:	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	

- 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





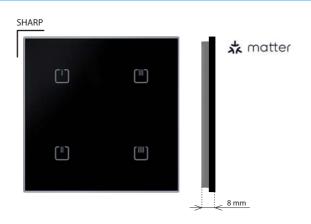
LIGUS !!!

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.



RFGB-40B/MT, RFGB-40W/MT | Glass touch controller – 4 buttons, sharp MATTER

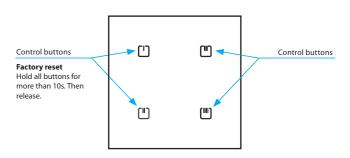


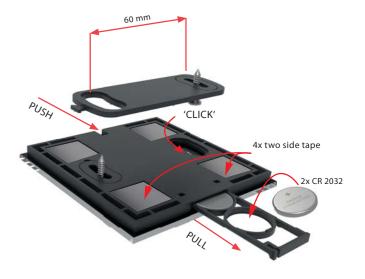
EAN code: RFGB-40W/MT: 8595188189774 RFGB-40B/MT: 8595188189767

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:	107 g		
Related standards:	EN 60730, EN 63044, EN 301489, EN 300328		

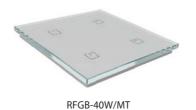
- Glass touch controller in an elegant black or white glass variant with a width of only 8 mm.
- Communicating on the Thread protocol, which guarantees compatibility with other Matter-enabled products.
- 4 capacitive buttons allow you to control 4 independent devices.
- After pressing the button, it 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





RFGB-40W/MT





RFGB-40B/MT

RFGB-40B/MT



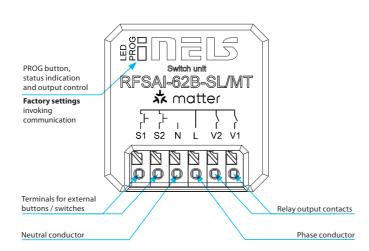
术 matter

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

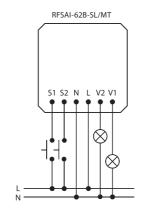
37.1. 02.5 32,1111.0333100103730			
Technical parameters	RFSAI-62B-SL/MT		
Supply voltage:	230 V AC		
Supply voltage frequency:	50-60 Hz		
Apparent input:	$7 \text{ VA } / \cos \varphi = 0.1$		
Dissipated power:	0.7 W		
Supply voltage tolerance:	+10 %; -15 %		
Output			
Number of contacts:	2x switching		
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	MENH		
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:	45 g		
Related standards:	EN 60730, EN 63044, EN 301489, EN 300328		

- The switching element with two output relays can be used to control some appliances and lights.
- ${\boldsymbol{\cdot}}$ 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
- 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





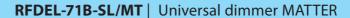
Touch controller

Border router









* matter



RFDEL-71B-SL: 8595188189552

Technical parameters	parameters RFDEL-71B-SL/MT		
Supply voltage:	230 V AC / 50 Hz		
Supply voltage frequency:	50-60 Hz		
Apparent power:	$5 \text{ VA } / \cos \phi = 0.1$		
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 mm² solid/flexible		
Dimensions:	43 x 44 x 22 mm		
Weight:	30 g		
Related standards:	EN 60730, EN 63044, EN 301489, EN 300328		

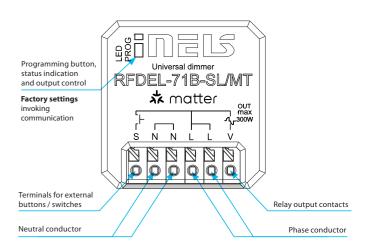
The given value is for load R, see table p. 70

Types of connectable loads

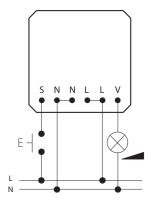
HAL. 230 V	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩			Ä
R	L	C	ESL	LED
resistive	inductive	capacitive	light bulbs	light bulbs

- 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.
- $\bullet \ \ \text{The element with the controller can be paired through a border router}$ 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





RFMD-200: 8595188191302

Technical paramete	ers 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

Upper cover

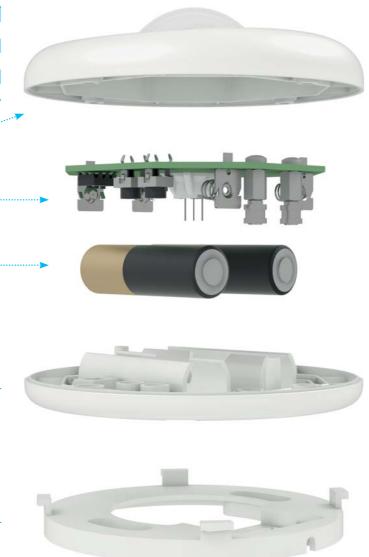
Device - electronics

2x 1.5 AA batteries

Bottom cover

- 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.
- · in combination with a switching unit for automatic control of lighting or triggering an alarm
- through the boarder 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.

Fresner lens





RFWD-100/MT | Window/Door detector MATTER

RFMD-100: 8595188189538

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		

- 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

术 matter

- in combination with the switching unit for automatic light control $% \left(1\right) =\left(1\right) \left(1\right$ (cellar, garage, etc.)
- by means of the Matter application, detection can be displayed on your smart phone in the form of a notifi cation
- Power supply: 1x 3 V CR 2032 battery, the battery life is around 1 year
- \bullet 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.

Hotel Room Energy Saving Kit (HRESK)

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





(WHITE glass, SHARP edges)

Technical parameters RFGS-30/S Supply voltage: 230 V AC / 50-60 Hz or 24 V AC / DC 1.1 VA/ 0.8 W Apparent/loss power input: ±10 % Supply voltage tolerance: Output 2x switching / 8 A /250 V AC1 / 2000 VA Relay: Peak Current: Ipeak <110A 300us / max. input capacitance 125 uF mechanical 10 mil. / electrical 100,000 cycles Contact Life: Control Number of Buttons: RFIO2 Communication: 866-922 MHz (more on page 81) Frequency: Repeater Function: yes Range: in open areas up to 200 m Connection Terminal block: screwless - push in 0.2 - 1.5 mm² solid flexible Wire gauge: Other data Operating Temperature: -10 to +50 °C -30 to +70 °C Enclosure: front IP60 / rear IP20 Overvoltage Category: Pollution Degree: 2 Working position Any in to the installation box Installation: 94 x 94 x 39 mm Dimension Weight: 128 g RFGS-30/SW/230: 8595188189477 EAN for 230 V, WHITE, SHARP: RFGS-30/SB/230: 8595188189200 EAN for 230 V, BLACK, SHARP: EAN for 24 V, WHITE, SHARP: RFGS-30/SW/24: 8595188191586 **RFGS-30/SB/24:** 8595188191579 EAN for 24 V, BLACK, SHARP: EN 60730, EN 63044, EN 301489, EN 300 220 Related standards:



- In connection with the RFSW-62/S room unit (or RFTC-3 thermostat), it is used to signali the status of MUR, green LED and DND, red LED
- · MUR and DND buttons are interlocked
- Also includes a bell button for controlling a room bell connected to the switched output of this unit or any iNELS Wireless switching element. The button 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
- The unit can be mounted in an installation box, for example replace a bell button or light switch, only requires a 230V AC power supply. Communication is then wireless
- The unit can be controlled by up to 4 indoor units (RFSW-62/S or RFTC-3)
- Setup and programming is done by a pairing button + signaled by
- 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

Maximum area for Illuminated room room number 55x18 mm number (daylight white) Service LEDS Hidden pairing Bell button button

DND button Customized logo HOTEL

> RFGS-30/SB (BLACK glass, SHARP edges)

Button legend

33x10 mm

GREEN backlight
Make Up Room

Instrument description

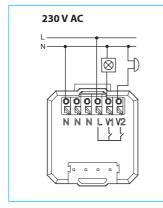


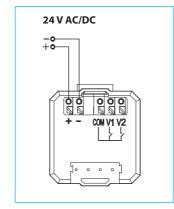




MUR button

Connection





BELL button backlight meaning			
	Colour	Room	Ring
\bigcirc	White	vacant	YES
\bigcirc	Blue	occupied	YES
<u>_</u> +	Blue+DND active	occupied, but "Do not disturb"	NO

RFSW-62/S | Glass touch wireless controler with symbols



(WHITE glass, SHARP edges)

Technical parameters	RFSW-62/S	
Supply voltage:	230 V AC / 50-60 Hz or 24 V AC / DC	
Apparent/loss power input:	1.1 VA/ 0.8 W	
Supply voltage tolerance:	±10 %	
Output		
Relay:	2x switching / 8 A /250 V AC1 / 2000 VA	
Peak Current:	lpeak <110A 300us / max. input capacitance 125 uF	
Contact Life:	mechanical 10 mil. / electrical 100,000 cycles	
Control		
Number of Buttons:	6	
Communication:	wireless, iNELS RFIO2 protocol	
Frequency:	866-922 MHz (more on page 81)	
Repeater Function:	yes	
Range:	in open areas up to 200 m	
Connection		
Terminal block:	screwless - push in	
Wire gauge:	0.2 - 1.5 mm2 solid flexible	
Other data		
Operating Temperature:	-10 to +50 °C	
Storage temperature:	-30 to +70 °C	
Enclosure:	front IP60 / rear IP20	
Overvoltage Category:	II.	
Pollution Degree:	2	
Working position:	Any	
Installation:	in to the installation box	
Dimension:	94 x 94 x 39 mm	
Weight:	131 g	
EAN for 230 V, WHITE, SHARP:	RFSW-62/SW/230: 8595188189484	
EAN for 230 V, BLACK, SHARP:	RFSW-62/SB/230: 8595188189255	
EAN for 24 V, WHITE, SHARP:	RFSW-62/SW/24: 8595188191289	
EAN for 24 V, BLACK, SHARP:	RFSW-62/SB/24: 8595188191296	
Related standards:	EN 60730, EN 63044, EN 301489, EN 300 220	



- The wireless glass remote control with symbols is used for:
- Control of iNELS Wireless elements (lighting, blinds or curtains)
- Control of the RFGS-30/S front door unit for MUR/DND
- Switching of 2x light circuits
- 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 3 buttons can be freely defined to control local outputs of the unit or any iNELS Wireless element located in the room (switching, dimming, HVAC, shading)
- Setup and programming is done by pairing button + signaling by ser-
- 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



Buttons for optional Hidden pairing button Service LED DND button MUR button **Butler** button RFSW-62/SB

(Black glass, sharp edges)

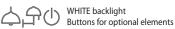
Legend of buttons

GREEN backlight

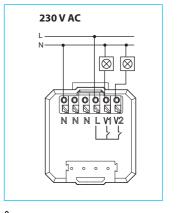


RED backlight

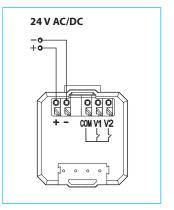




Connection



 $\begin{picture}(20,0)\put(0,0){\line(0,0){100}}\put(0,0)$ the relay contacts switch the phase potential (L) and are equipped with zero cross switching technology



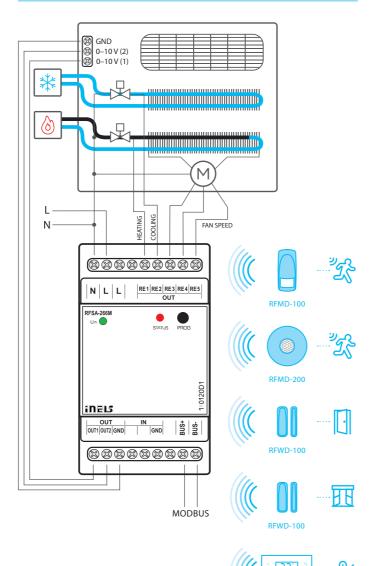
The output contacts (V1, V2) are galvanically isolated from the power supply and share a common COM terminal

EAN code: RFSA-266M: 8595188189781

	DECA 26614/22014	
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. 81)	
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/	
cross-section (mm²):	with a hollow max. 1x 2.5	
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



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



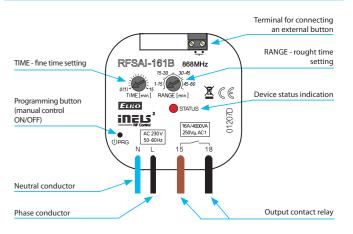
EAN code: RFSAI-161B: 8595188149341

Technical parameters	RFSAI-161B/230V	RFSAI-161B/120\
Supply voltage:	230 V AC	120 V AC
Supply voltage frequency:	50-60 Hz	60 Hz
Apparent power:	9 VA	9 VA
Dissipated power:	0.7 W	
Supply voltage tolerance:	+10 %	; -15 %
Output		
Number of contacts:	1x switchin	ng (AgSnO ₂)
Rated current:	12 A	/AC1
Switching power:	3000 VA/AC	1, 288 W/DC
Peak current:	30 A, max.	. 4 s at 10%
Switching voltage:	250 V AC	1/24 V DC
Min. switching power DC:	100 m	A/10 V
Insulation voltage between		
outputs and internal circuits:	basic In	sulation
	(Cat. III surges	by EN 60664-1)
Isolation voltage open		
contact:	1	kV
Mechanical service life:	3x	10 ⁷
Electrical service life (AC1):	5x	10 ⁴
Indication of relay switch:	red	LED
Control		
Communication protocol:	RF	102
Frequency:	866-922 MHz (for more	e information see p. 81)
Repeater button:	y ₍	es
Manual control:	button PRC	G (ON/OFF)
External button:	cable length r	max. 12 m 👍*
Range:	in open spac	e up to 160 m
Other data		
Open contact voltage		
external switch:	3	V
Resistor for the management		
of external switch:	<1	kΩ
Resist. of connection for open		
contact:	>10	kΩ
Galvanic isolation of input:	n	0
Operating temperature:	-15 to	+50 °C
Storage temperature:	-30 to	+70 °C
Working position:	any	
Mounting:	free at lea	d-in wires
Protection:	IP30	
Overvoltage category:	II	II.
Contamination degree:	2	
Terminals:	0.5–1 mm ²	
Terminals (CY wire, Cross-section):	2x 0.75 mm ²	² , 2x 2.5 mm ²
Terminal length:	90 mm	
Dimensions:	49 x 49	x 21 mm
Weight:	50 g	

^{*} We recommend using a twisted pair cable for this distance. Control button input is at the supply voltage potential.

- Switch component with one output channel which is used in combination with detectors for automatic lighting control.
- RFSAI-161B has a pre-set control algorithm (scene) adapted to the requirements of hotel room control, see wiring.
- Each RFSAI-161B can be programmed with 1x RFMD-100, 1x RFWD-100 and 1x wireless controller (RFWB-40/G or RF KEY).
- The terminals on the component give you the opportunity to connect a wired detector or an existing key installation.
- It enables connection of the switched load up to 1x 12 A (3000 VA).
- The programming button on the unit is also used for manual control of the output.
- 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.

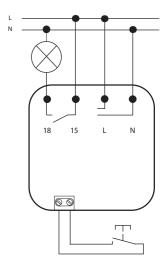
Device description



Compatible wireless detectors: Movement: RFMD-100 Door/Window: RFWD-100

Connection

RFSAI-161B/230V RFSAI-161B/120V



switch unit with external input for local switch door detector RESAL-161R existing switch On-wall button controller (4 buttons) C Master OFF В• D main/bathroom light RFMD-100 dimming socket RFDSC-71N RFDEL-71B-SL

Function

others controllers

Example

When RFMD-100 motion detector captures the movement of the guest, the light ON command is sent.

switching socket

- The functionality of RFWD-100 door detector is delayed OFF= after the guest (or cleaner) close the door than the timer starts running (which you can set) and the light will turn OFF.
- If there is movement the command from RFWD-100 door detector (delay off) will be cancelled by the motion detector RFMD-100 command.
- Pressing the button at position D of RFWB-40 On-wall button controller sends an OFF command to all components that are controlled from that button while blocking the response to RFMD-100



dimming lamp

You are able to control other units with other channels (A, B, C) on RFWB-40 On-wall button controller.

dimmed light



When guest wakes up and presses any RFWB-40 button, then pressing on button makes all units working again after previous pressing button on position D and it also re-enable RFMD-100 motion detector primary function.

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



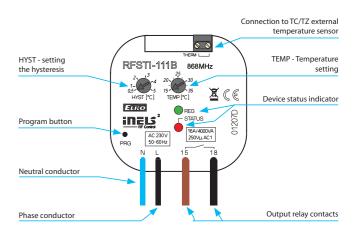
EAN code: RESTI-111R: 8595188149150

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 tem	perature sensor input 👍
Temp. measurement range	+15 to	+35 °C;
and accuracy:	0.5 °C of t	he range
Output		
Number of contacts:	1x switchin	g (AgSnO²)
Rated current:	12 A	/AC1
Switching power:	3000 VA/AC	1, 288 W/DC
Peak current:	30 A/max.	4 s at 10%
Switching voltage:	250 V AC1	1/24 V DC
Min. switching power:	100 m	A/10 V
Insulation voltage between		
relay outputs and internal	basic Ins	sulation
circuits:	(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:	RFI	02
Frequency:	866–922 MHz (for more information see p. 81)	
Repeater function:	yes	
Range:	in open space	e up to 160 m
Other data		
Operating temperature:	-15 to -	
Storage temperature:	-30 to	
Indication of relay switch:	red	
Indication regulation:	green LED	
Operating position:	any	
Mounting:	free at lead-in wires	
Protection:	IP:	
Overvoltage category:	II	
Contamination degree:	2	
Outlets (CY wire,	2 x 0.75 mm ² , 2 x 2.5 mm ² ,	
cross-section, length):	90 mm	
Dimensions:	49 x 49 x	
Weight:	50	3
Related standards:	EN 60730, EN 63044, E	N 301489, EN 300 220

1 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.

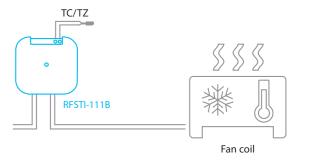
Device description



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



7/	
/4	

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

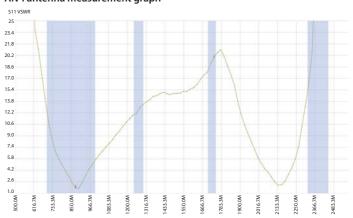
The rod antenna with SMA connector is supplied as standard with the product.

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. 81)
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



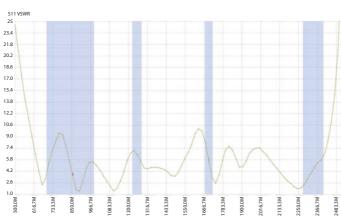
- The RFAF/USB Service Key (in conjunction with the Wireless_analyzer) is designed for iNELS Wireless Control system partners and serves for:
- Setting the repeater (signal amplifier) through the iNELS Wireless Control elements labeled as RFIO2. This option allows you to communicate over longer distances (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

Accessories



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

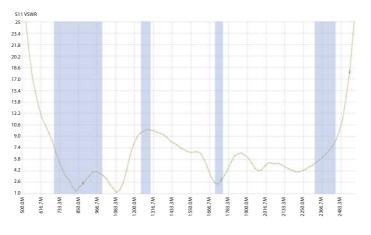


3 m

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

AN-E3 antenna measurement graph



• The external antenna is intended for outdoor use.

MS | Magnetic sensor

Accessories



- 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 detectioning 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").
- he 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

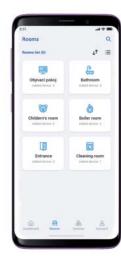


- A magnetic sensor that detects the pulse that is created by each rotation of the magnet placed on the unit dial meter.
- The WS sensor is especially suitable for water meters that support mag-
- The sensing sensor is glued over the circular unit face of the gauge (the scanning dial is different from the other indicators, e.g. the white arrow
- \bullet 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.

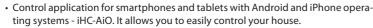
Smartphones









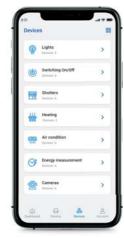


- The user-friendly and intuitive application environment offers central control from one place.
- The application enables control of the complete iNELS Wireless and BUS solution via the Smart RF gate, Connection server, Central unit and other supported third--party devices that are connected to the 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
- 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
- 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.

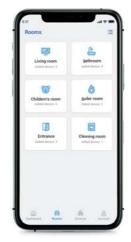




Overview Absolute control over the state of all technologies.



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.

Applications

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
- 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
- heating (temperature correction, heating mode change, cooling/heating
- 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.

Switching

• Here you will find a link to the application:





Lighting



Multimedia



Heating



Weather

station







Cameras





Energy

management



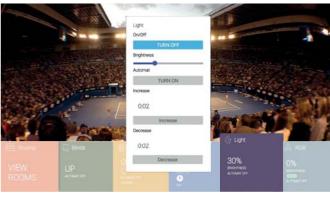
Intercom

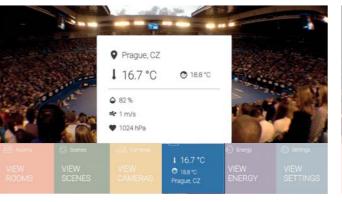




shutters









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
- · 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:



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
- · 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:

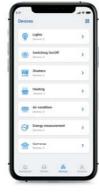


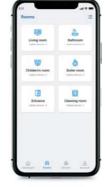












New mobile app for controlling all compatible elements from the iNELS portfolio.

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.
- $You \, can \, create \, a \, cloud \, account \, on \, the \, login \, screen \, in \, the \, app. \, The \, recommended \, minimum \, speed \, for \, connecting \, the \, eLAN-RF \, to \, the \, Cloud \, should \, be \, in \, the \, order \, the \, cloud \, should \, be \, in \, the \, order \, the \, cloud \, should \, be \, in \, the \, order \, the \, cloud \, should \, be \, in \, the \, order \, the \, cloud \, should \, be \, in \, the \, order \, the \, cloud \, should \, be \, in \, the \, order \, the \, cloud \, should \, be \, in \, the \, order \, the \, cloud \, should \, be \, in \, the \, order \, the \, order \, the \, cloud \, should \, be \, in \, the \, order \, the \, order$ 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.

Product loadability

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, $\cos \varphi = P/$	S (-)	
AC-1	Non-inductive or slightly inductive load, resistance furnace	

AC current, $\cos \varphi = 1$	P/S (-)	
AC-1	Non-inductive or slightly inductive load, resistance furnace Includes all appliances supplied by AC current with power factor ($\cos \varphi$) ≥ 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 that 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:

- a) AgCd suitable for switching ohmic loads. Before of harmfulness of Cd, this type of contact is remitted.
- b) 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.
 c) AgSn or AgSnO₃ –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.
- d) 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.

Loadability products

RFJA-32B-SL; RF	SA-62B-SL; RFS	SAI-62B-SL; RFS	A-66M; RFSAI-1	1B-SL; RFSAI-6	2B-SL/TH; RFSV	V-62; RFSW-262	; RFSTI-11B-SL;	RFSAI-61B-SL;	RFSA-61MI
Load type	 cos φ ≥ 0.95	-(M)-	-(M)-	=()= AC5a without	T☐☐T ■☐☐ = ZE AC5a with	HAL 230V	31		
	AC1	AC2	AC3	compensation	compensation	AC5b	AC6a	AC7b	AC12
Contact material AgSnO ₂ , Contact 8 A	250 V/8 A	250 V/5 A	250 V/4 A	х	х	250 W	250 V/4 A	250 V/1 A	250 V/1 A
Load type	B	- 	_ \		-(M)-	-(M)-		<u>-</u>	-‱-
	AC13	AC14	AC15	DC1	DC3	DC5	DC12	DC13	DC14
Contact material	х	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	х

KFU3-01									
Load type	- <u>-</u>	-(M)- AC2	-(M)- AC3	AC5a without compensation	AC5a with compensation	ME HAL.230V AC5b	3E AC6a	 AC7b	- <u>-</u>
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	#3E	-──-	-₩		-M-	-(M)-		-──-	<u>-</u> ₹
	AC13	AC14	AC15	DC1	DC3	DC5	DC12	DC13	DC14
Contact material AgSnO ₂ , Contact 14 A	х	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	х
					<u> </u>				
RFSA-61M; RFSC	C-61N; RFSA-61	MI							

RFSA-61M; RFSC	C-61N; RFSA-61	MI							
Load type	———— cos φ ≥ 0.95	-(M)-	-M-	: -		HAL 230V		- ~~~	
	AC1	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	х	250 V/3 A	250 V/10 A
Load type	BE	-‱-	₩-┤ -~~		-(M)-	-(M)-		- ₹	- ₹
	AC13	AC14	AC15	DC1	DC3	DC5	DC12	DC13	DC14
Contact material AgSnO ₂ , Contact 16 A	х	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	Х

Rating of the	Rating of the light source ELKO lighting on dimmers ELKO EP																									
		LED	bulb			l	ED sp	ot light	:S			LED panels LED / RGB strip														
		-E27- -2K7		8-E27- 6-5K		DLSL-GU10- -350-3K		GU10- 0-3K	LSL-GU10- 350-5K		LP-6060-3K		LP-60	060-6K	50-6K LED strip 7.2W			strip .4W		strip 9.2W	LED strip 28.8W		RGB strip 7.2W		RGB strip 14.4W	
		U.	- 1	W.			No.		W.						12 13	21123	W. C. St.		THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN T		O WEST WEST WA			THE	W. TAN	- Second
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	\checkmark	10m
RFDALI-32B-SL	-	-	-	-	-	-	-	-	-	-	√	50	✓	50	-	-	-	-	-	-	-	-	-	-	-	-

AgSnO₂, Contact 8 A

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

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 φ, capacity for power factor $\cos \varphi = 1$. The power factor of dimmable LEDs and ESL bulbs ranges from $\cos \varphi = 0.95$ 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.

Pairing controllers with iNELS Wireless devices

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 version

Pressing on the upper control mandrel (paper clip, screwdriver) will eject the battery and the pairing button is released.



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

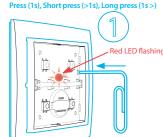


It is located and the side near the button number 5.



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) of the pairing button

RFWB, RFKEY, etc.)

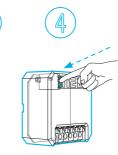


Long press (1s >) of the PROG button (see. Tab 1)

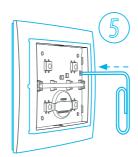
Device = receiver (e.g. RFSAxx, RFIM, RFSG or RFDELxx etc.)



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



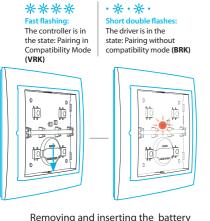
Short press (>1s) of the PROG button to close



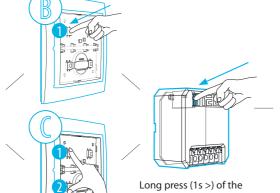
Short press (>1s) of the pairing button to exit the pairing mode

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).

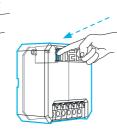


to activate the default state



Short press (>1s) of the PROG button (see. Tab 1) selected button on the controller (number of

presses = function)



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

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.



Pairing in compatibility mode

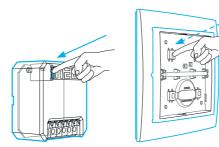
To pair the oldest versions of devices with drivers, it is necessary to switch the driver to Compatibility Mode. Remove the battery from the controller 5 s . After inserting the battery, the red LED is on for 3 s, press and hold 1 and 2 at the same time and keep them pressed until the controller signals 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, 2s or 3s (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, RFDSC-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



Pairing







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.	ウン ・				
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							
0 0 0	1x click	Function 1 - button The output contact will be closed by pressing the button and opened by releasing the button.	***				
00	2x click	Function 2 - switch on The output contact will be closed by pressing the button.	**************************************				
013	3x click	Function 3 - switch off The output contact will be opened by pressing the button.	**s				
9	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.	") 。 中				
5x click thelay DFF + hold time + hold	5 s hold	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 s - 60 min.	· 30				
6x click + hold = delay time	6 s hold	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 s - 60 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).

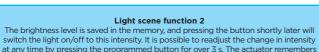
Stmívací prvky multifunkční RFDA-73M/RGB, RFDEL-71B-SL, RFDEL-71M, RFDSC-71N, RFDAC-71B, RFDW-71



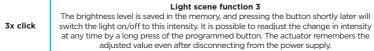
1x click

2x 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



at any time by pressing the programmed button for over 3 s. The actuator remember 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.

Function sunrise

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.

5x Click + hold = time After pressing the programmed button, the light begins to illuminate in the programmed time interval in a range of 2 seconds to 30 minutes.









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

<0.5s <0.5s <0.5s <0.5s >0.5s >0.5s <0.5s

<0.5s >0.5s >0.5s<0.5s<0.5s >0.5s <0.5s

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 RFGB-40W/MT RFGB-240 RFWB-40/G RFWB-40G/MT RFTC-10/G RFTC-50/G RFGB-20 RFGB-40 RFTC-150/G

RFSW-62/S

2) Flush mounted

RF Touch-2 RFDW-71 RFDW-271 RFGS-30/S



On DIN rail according to EN 60715.

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



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5) Mounted into the cover of appliance

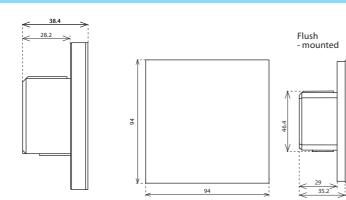
RFDALI-32B-SL RFSAI-62B-SL RFSTI-111B RFDALI-04B-SL RFSAI-BPF-SL RFSAI-62B-SL/MT RFDEL-71B-SL RFJA-32B-SL

RFSAI-11B-SL RFSTI-11B-SL RFSA-61B RFSAI-161B

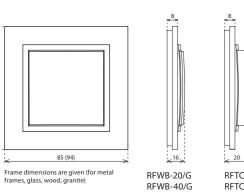
6) Surface mounted

RFSOU-1	RFWD-100
RFUS-61	RFOWB-20
RFTM-100	RFMD-200
RFSF-100	RFSLT-S3
DELAD 400	

RFMD-100

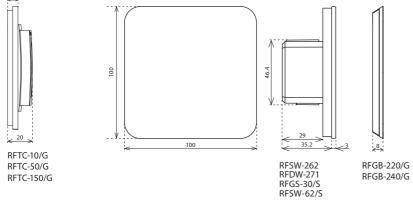


RF Touch 2



Surface-mounted

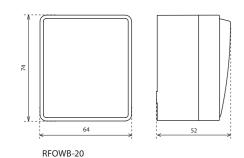
RFWB-40/MT

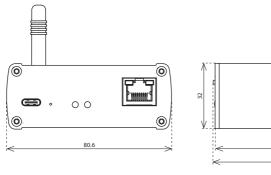


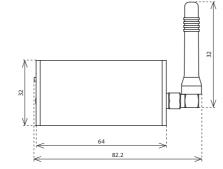
RFSW-62 RFDW-71

Flush

- mounted







Surface

RFGB-20/G

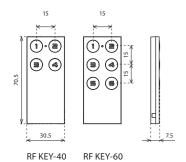
RFGB-40/G

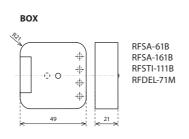
RFWB-40G/MT

Surface

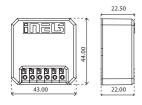
RFGB-40B/MT

RFGB-40W/MT





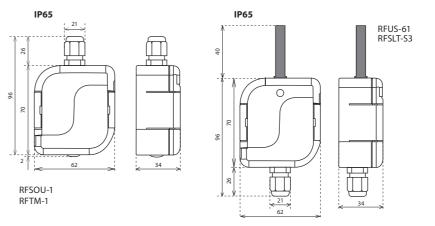
вох

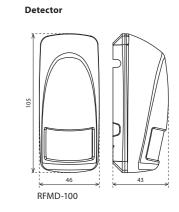


RFIM-40B-230-SL RFJA-32B-SL RFDALI-32B-SL RFSAI-62B-SL RFDALI-04B-SL RFSTI-11B-SL RFSAI-11B-SL RFDEL-71B-SL RFDEL-71B-SL/MT

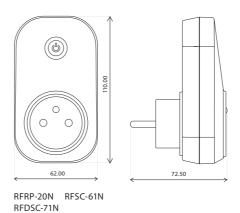
RFSAI-61BPF-SL RFSAI-61B-SL RFSAI-62B-SL/MT RFIM-40B-BP-SL

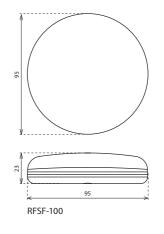
Product dimension



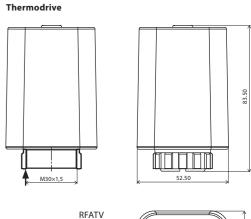




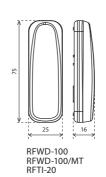


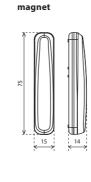


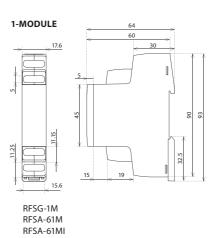
Detector



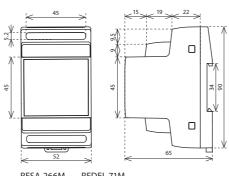






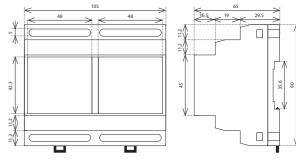


3-MODULE

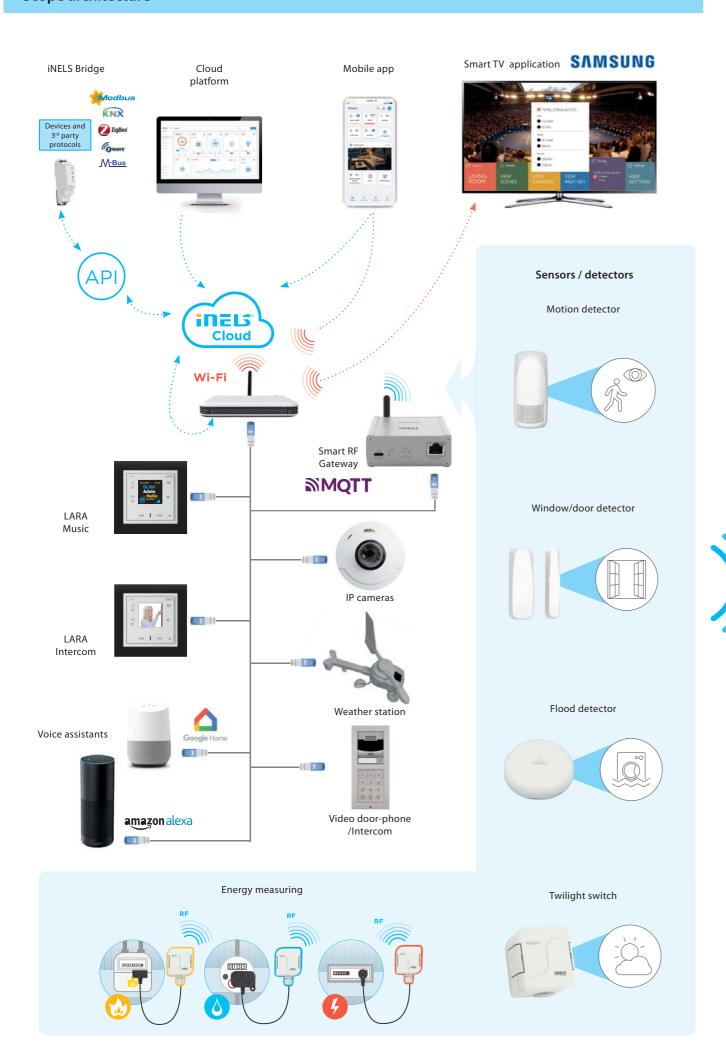




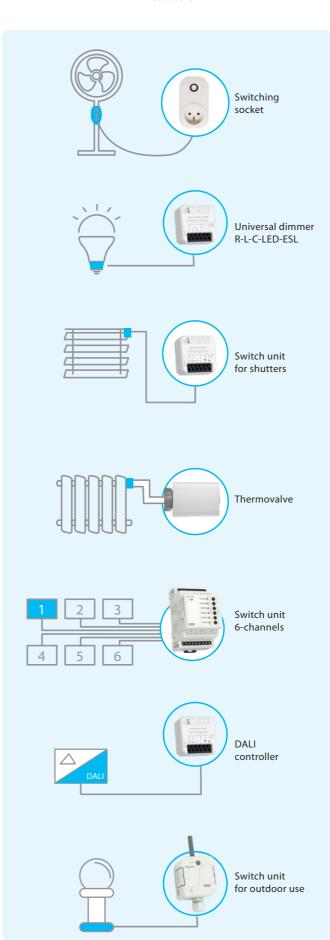
6-MODULE



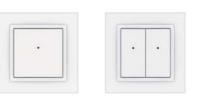
RFDEL-76M



Actuators



Controllers



On wall button controller





Glass touch controller





Glass touch with dimmer





converter







Temperature controller

225



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