PRODUCT OVERVIEW

Timers/Relays
Protection and monitoring relays
iNELS RF Wireless electroinstallation
iNELS BUS Wired electroinstallation
Design switches and sockets

OVERVIEW

www.elkoep.com

ELKO EP

We are traditional, innovative and purely Czech development manufacturer of electronic devices and we have been your partner in the field of electroinstallations for 27 years.

ELKO EP employs about 330 people, exports its products to more than seventy countries, and has representatives in fifteen foreign branches. Company of the Year of the Zlín Region, Visionary of the Year, Global Exporter of the Year, Participation in the Czech TOP 100, these are just some of the awards received. Still, we are not finnished. We are constantly striving to move forward in the field of innovation and development. That's our primary concern.

Millions of relays, thousands of satisfied customers, hundreds of our own employees, twenty seven years of research, development and production, fifteen foreign branches, one company. ELKO EP, innovative- a purely Czech company based in Holešov, where development, production, logistics, service and support go hand in hand. We primarily focus on developing and manufacturing systems for building automation in the residential, commercial and industrial sector, a wide range of Smart city facilities and the so-called Internet of Things (IoT).

Facts and stats

35 % CZECH

40 % EXPORT

25 % BRANCHES

330 EMPLOYEES

15 000 iNELS INSTALLATION

12 000 000 MANUFACTURED PRODUCTS

6 FRANCHISES OVER THE WORLD

9 BRANCHES OVER THE WORLD

70 EXPORTING COUNTRIES

2nd position in Europe with timers/time relays

WE ARE

DEVELOPERS

In the new R&D center, more than 30 engineers develop new products and extend the functionality of existing products

PRODUCERS

Modern antistatic spaces, 2x fully automated SMD production lines, 2 shift operations.

SUPPORT

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

SELLERS

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

Product groups

relay

page 6 - 24

Timers/Relays **www.elkoep.com/relays**
Time relays, auxiliary relays, installation contactors, bistable relays, staircase switch, time switch clock, dimmers, power supplies, control and signalling devices.

Protection and monitoring relays **www.elkoep.com/monitoring**
Voltage relays 1-phase and 3-phase (under voltage, overvoltage, phase failure, phase asymmetry, phase sequence), current relays, power factor and frequency monitoring, thermostats, level relays.

iNELS RF Control

page 25 - 32

Wireless electro-installation iNELS RF **www.elkoep.com/wireless**
Components of smart wireless system can be easily and quickly used in existing buildings where it is not desirable to cut holes for cables (e.g. add / change a light switch when changing room layouts). However, it is also possible to assemble a complete system for apartment or house control, intelligent control of heating, blinds or scene settings. When using the eLAN-RF gateway, the entire installation can also be controlled by an application from a mobile phone, tablet or television.

Hotel Wireless Retrofit (HRESK) **www.elkoep.com/retrofit**
Hotel Room Energy Saving Kit - is a complete solution designed primarily for existing hotel rooms and is based on the iNELS RF wireless system. It focuses on the following areas: "Energy savings": switching off all appliances when leaving the room or not overheating / not overcooling, "Comfort" - all out of bed and "Safety": bell, guest in the room, maid, visitor.

iNELS BUS System

page 33 - 43

Wired electro-installation iNELS BUS **www.elkoep.com/wired**
The sensors and actuators, together with the central unit, which is the heart of the system, communicate via a 2-wires and enable the built up a larger installation for family houses, villas, hotels and buildings. Individual functions of elements are parameterized in iDM SW, so simple and more complex actions can be set.

Hospitality Hotel (GRMS) **www.elkoep.com/hospitality**
Guest Room Management System – is a comprehensive solution designed primarily for new hotels, guesthouses or wellness and is based on the iNELS BUS system. In the room, it resolves the control of lighting, access, temperature control and audio / video distribution. It features glass panels with touch buttons that can be combined in various ways (numbers, shape, and colours) and customized (description, logo).

Building management system **www.elkoep.com/building**
Building Management System is the supervisor above the iNELS BUS, resp. wireless system iNELS RF. It enables not only the control of several central units (CU) or gateways (eLAN), but also the connection to other protocols that the technology brings in the building (Modbus, Bacnet, KNX, etc.).

Lighting control **www.elkoep.com/lighting**
iNELS offer a variety of lighting control solutions for all types of light sources: from simple (dimmers from the RELAY range), through wireless (iNELS RF) to sophisticated control within the iNELS BUS installation, which (except conventional R - L - C - LED dimmers) also includes units for light control via DALI and DMX bus.

LOGUS90

page 46 - 49

Switches and sockets **www.elkoep.com/logus90**
Switches, sockets and a complete range of devices and accessories - this is the Logus90 series from the Portuguese manufacturer Efapel. This range is complemented by both standard plastic frames and luxury frames made of purely natural materials: real wood, metal, granite or tempered glass. Be exceptional!

Housing

1-MODULE | 2-MODULE | 3-MODULE | 4-MODULE | 6-MODULE

BOX - flush mounted

into the cover

into 11-Pin Socket or into the panel

48 x 48 x 89 mm

139 x 139 x 56 mm IP65

72 x 62 x 34 mm IP65

IP65 protection

interior

72 x 62 x 34 mm

25 x 75 x 16 mm
15 x 75 x 14 mm

Ø 89 x 23 mm

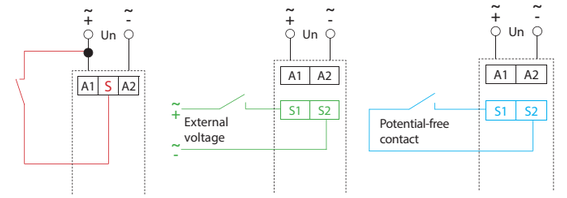
in LOGUS^{90} design

AQUARELLA ARBORE ANIMATO PETRA

CRYSTAL METALLO BASE

Quick overview of time relays

CONTROL INPUT TYPE:

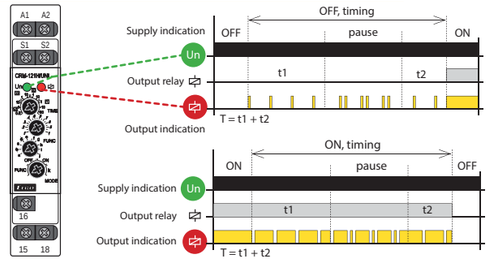


LINE VOLTAGE TRIGGER
Control from supply voltage (to A1 terminal).

POWER TRIGGER
Control from independent external voltage.

CONTROL SWITCH TRIGGER
Control with potential-free contact.

MULTI-FUNCTION LED INDICATION:



	CRM-181J	CRM-183J	CRM-161H	CRM-91H	CRM-93H	CRM-111H	CRM-113H	CRM-2T
Type	Single-function		Multi-function - ECONOMY	Multi-function BESTSELLER		Multi-function with Inhibit delay		Star/delta starter
Control input type	Line Voltage Trigger	Line Voltage Trigger	Line Voltage Trigger	Line Voltage Trigger	Line Voltage Trigger	Line Voltage Trigger	Line Voltage Trigger	-

Main parameters

Supply voltage (frequency)	AC/DC 12-240V (AC 50/60 Hz)	AC/DC 12-240V (AC 50/60 Hz)	AC 24-240V **and** DC 24V (AC 50/60 Hz)	AC/DC 12-240V **or** AC 230V only (AC 50/60 Hz)	AC/DC 12-240V **or** AC 230V only (AC 50/60 Hz)	AC/DC 12-240V (AC 50/60 Hz)	AC/DC 12-240V (AC 50/60 Hz)	AC/DC 12-240V **or** AC 230V only (AC 50/60 Hz)
Time Range	0.1 s - 100 hrs	0.1 s - 100 hrs	0.1 s - 10 hrs	0.1 s - 10 days	0.1 s - 10 days	0.05 s - 30 days	0.05 s - 30 days	0.1 s - 100 days, 0.1 - 1 s
Contact Configuration and Rating	SPDT (1x C/O) 16 A/250 V	3PDT (3x C/O) 8 A/250 V	SPDT (1x C/O) 8 A/250 V	SPDT (1x C/O) 16 A/250 V	3PDT (3x C/O) 8 A/250V	1x SPDT (1x C/O) 16 A/250 V	3PDT (3x C/O) 8 A/250V	2x SPDT (2x C/O) 16 A/250 V
2nd + 3rd contact mode selection	no	no	no	no	no	no	yes	no

Functions

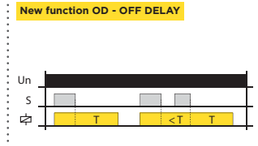
Number of function	1	1	6	10	10	11	10	1
List of function	ZR - ON DELAY ZN - INTERVAL ON BL - FLASHER - ON first		ON DELAY, INTERVAL ON, FLASHER ON first, OFF DELAY, ON/OFF delay, MEMORY LATCH with delay, ON DELAY with control signal	ON DELAY, INTERVAL ON, FLASHER-OFF first, FLASHER ON first, OFF DELAY, SINGLE SHOT, SINGLE SHOT falling edge, ON/OFF DELAY, MEMORY LATCH, PULSE GENERATOR 0.5 s		ON DELAY, INTERVAL ON, FLASHER ON/OFF first, MEMORY LATCH, OFF DELAY, SINGLE SHOT, PULSE GENERATOR 0.5 s, ON/ OFF DELAY	ON DELAY, INTERVAL ON, FLASHER-ON/ OFF first, MEMORY LATCH, OFF DELAY, SINGLE SHOT, PULSE GENERATOR 0.5 s, ON/OFF DELAY	STAR/DELTA starter
New functions	OD - OFF DELAY		-	-	-	WATCHDOG, INTERVAL ON/OFF, MEMORY LATCH WITH DELAY	WATCHDOG, INTERVAL ON/OFF	-

General information

Mounting	35 mm DIN rail (IEC 60715)							
Temperature Range	Operating: -20°C to +55°C (-4°F to 131°F) Storing: -30°C to +70°C (-22°F to 158°F)							
Lifetime	Electrical: 50,000 operations Mechanical: 10,000,000 operations							
Dielectric strength	Between power supply and output contact 1: 4 kV AC							
Weight	61 g (2.15 oz)	61 g (2.15 oz)	61 g (2.15 oz)	61 g (2.15 oz)	82 g (2.79 oz)	61 g (2.15 oz)	82 g (2.79 oz)	79 g (2.79 oz)
Dimensions	90 x 17.6 x 64 mm 3.5˝ x 0.7˝ x 2.5˝	90 x 17.6 x 64 mm 3.5˝ x 0.7˝ x 2.5˝	90 x 17.6 x 64 mm 3.5˝ x 0.7˝ x 2.5˝	90 x 17.6 x 64 mm 3.5˝ x 0.7˝ x 2.5˝	90 x 17.6 x 64 mm 3.5˝ x 0.7˝ x 2.5˝	90 x 17.6 x 64 mm 3.5˝ x 0.7˝ x 2.5˝	90 x 17.6 x 64 mm 3.5˝ x 0.7˝ x 2.5˝	90 x 17.6 x 64 mm 3.5˝ x 0.7˝ x 2.5˝

Approved by

New function OD - OFF DELAY



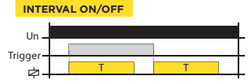
GOOD DEAL

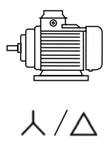
EXTERNAL POTENTIOMETER

For remote time setting (CRM-91HE and CRM-2HE)

WATCHDOG

INTERVAL ON/OFF





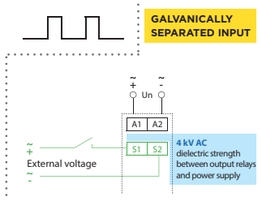
CRM-2H	CRM-121H	CRM-131H	PTRM-216K	PTRM-216T	PTRM-216KP	PTRM-216TP	PTRA-216K	PTRA-216T
Asymmetric flasher	Multi-function with GSCI	Multi-function with three inputs	Multi-function with PFCI		Multi-function with Inhibit delay		Multi-function with three inputs	
Line Voltage Trigger	Power Trigger (galvanically separated)	Three control inputs (START, INHIBIT, RESET)	Control Switch Trigger	Control Switch Trigger	Line Voltage Trigger	Line Voltage Trigger	Three control inputs (START, INHIBIT, RESET)	Three control inputs (START, INHIBIT, RESET)

AC/DC 12-240V **or** AC 230V only (AC 50/60 Hz)	AC/DC 12-240V (AC 50/60 Hz)	AC/DC 12-240V (AC 50/60 Hz)	AC/DC 12-240V (AC 50/60 Hz)	AC/DC 12-240V (AC 50/60 Hz)	AC/DC 12-240V (AC 50/60 Hz)	AC/DC 12-240V (AC 50/60 Hz)	AC/DC 12-240V (AC 50/60 Hz)	AC/DC 12-240V (AC 50/60 Hz)
0.1 s - 100 days	0.05 s - 30 days	0.05 s - 30 days	0.05 s - 30 days	0.05 s - 30 days	0.05 s - 30 days	0.05 s - 30 days	0.05 s - 30 days	0.05 s - 30 days
SPDT (1x C/O) 16 A/250 V	SPDT (1x C/O) 16 A/250 V	SPDT (1x C/O) 16 A/250 V	2x SPDT (2x C/O) 16 A/250 V	2x SPDT (2x C/O) 16 A/250 V	2x SPDT (2x C/O) 16 A/250 V	2x SPDT (2x C/O) 16 A/250 V	2x SPDT (2x C/O) 16 A/250 V	2x SPDT (2x C/O) 16 A/250 V
no	no	no	yes	yes	yes	yes	yes	yes

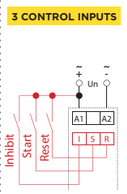
1	11	11	10	10	10	10	10	10
ASYMMETRIC FLASHER - ON FIRST **or** ASYMMETRIC FLASHER - OFF FIRST	ON DELAY, INTERVAL ON, FLASHER-ON/ OFF first, MEMORY LATCH, OFF DELAY, SINGLE SHOT, PULSE GENERATOR 0.5 s, ON/OFF DELAY	ON DELAY, INTERVAL ON, FLASHER-ON first, MEMORY LATCH, OFF DELAY, SINGLE SHOT, PULSE GENERATOR 0.5 s, ON/OFF DELAY	ON DELAY, INTERVAL ON, FLASHER - ON/ OFF first, OFF DELAY, SINGLE SHOT, PULSE GENERATOR 0.5 s, ON/OFF DELAY, MEMORY LATCH		ON DELAY, INTERVAL ON, FLASHER - ON/ OFF first, OFF DELAY, SINGLE SHOT, PULSE GENERATOR 0.5 s, ON/OFF DELAY, MEMORY LATCH		ON DELAY, INTERVAL ON, FLASHER-ON/ OFF first, OFF DELAY, SINGLE SHOT, PULSE GENERATOR 0.5 s, ON/OFF DELAY, MEMORY LATCH with delay	
-	WATCHDOG, INTERVAL ON/OFF, MEMORY LATCH WITH DELAY	WATCHDOG, INTERVAL ON/OFF, MEMORY LATCH WITH DELAY	WATCHDOG, INTERVAL ON/OFF		WATCHDOG, INTERVAL ON/OFF		WATCHDOG, INTERVAL ON/OFF	

35 mm DIN rail (IEC 60715)			11 Pin Octal Socket					
Operating: -20°C to +55°C (-4°F to 131°F) Storing: -30°C to +70°C (-22°F to 158°F)								
Electrical: 50,000 operations Mechanical: 10,000,000 operations								
Between power supply and output contact: 4 kV AC			Between power supply and output contact: 2.5 kV AC					
61 g (2.15 oz)	72 g (2.57 oz)	61 g (2.17 oz)	108 g (3.85 oz)	107 g (3.82 oz)	108 g (3.85 oz)	107 g (3.82 oz)	108 g (3.85 oz)	107 g (3.82 oz)
90 x 17.6 x 64 mm 3.5˝ x 0.7˝ x 2.5˝	90 x 17.6 x 64 mm 3.5˝ x 0.7˝ x 2.5˝	90 x 17.6 x 64 mm 3.5˝ x 0.7˝ x 2.5˝	48 x 48 x 89 mm 1.7˝ x 1.7˝ x 3.5˝	48 x 48 x 79 mm 1.7˝ x 1.7˝ x 3.1˝	48 x 48 x 89 mm 1.7˝ x 1.7˝ x 3.5˝	48 x 48 x 79 mm 1.7˝ x 1.7˝ x 3.1˝	48 x 48 x 89 mm 1.7˝ x 1.7˝ x 3.5˝	48 x 48 x 79 mm 1.7˝ x 1.7˝ x 3.1˝

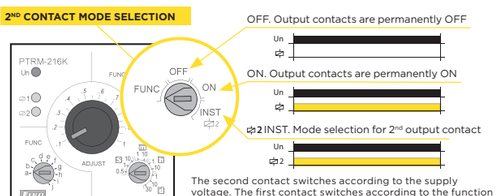
GALVANICALLY SEPARATED INPUT



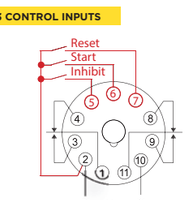
3 CONTROL INPUTS



2ND CONTACT MODE SELECTION



3 CONTROL INPUTS



TIME RELAYS - multifunction, on DIN rail

multifunction, economy version of CRM-91H

multifunction 1x output contact

multifunction 3x output contacts

multifunction with external potentiometer

electricity saving relay

Technical parameters	CRM-161	CRM-91H	CRM-93H	CRM-91HE	CRM-101
Output	1x CO, 8 A	1x CO, 16 A	3x CO, 8 A	1x CO, 16 A	1x CO, 16 A
Housing	1-MODULE				
Supply voltage (frequency)	AC 24-240 V and DC 24 V (AC 50/60Hz)	AC/DC 12-240 V or AC 230 V (AC 50/60 Hz)	AC/DC 12-240 V or AC 230 V (50/60 Hz)	AC/DC 12-240 V (AC 50/60 Hz)	AC/DC 12-240 V (AC 50/60 Hz)
Time range	0.1 s - 10 hrs (6 ranges)	0.1s - 10 days (10 ranges)	0.1 s - 10 days (10 ranges)	0.1 s - 10 days (10 ranges)	t1: 1 - 60 min, t2: 0.5 - 10 s
Number of functions	6	10	10	10	1
Dimensions	90 x 17.6 x 64 mm (3.5˝ x 0.7˝ x 2.5˝)				
Order code	8161	**UNI: 7521 230V:** 7078	**UNI:** 7561 **230V:** 7562	8145	8132
	Economic version of CRM-91H. Only the 6 most used functions, 8 A changeover contact, miniUNI power supply AC / DC 24-240 V + DC 24 V.	The most used multifunctional time relay for universal use in automation, control and regulation or in house installations. 10 functions, 10 time ranges, multifunctional LED signalling, universal power supply in a wide range of power supply AC / DC 12-240 V.		As a CRM-91H, but with the possibility of time control by an external potentiometer. The potentiometer is mounted in a panel, hole diameter 25 mm.	Relay for automatic switching of connected power supply using connected sensors (motion detector and magnetic door contact) in the room.

MODULE on DIN rail

TIME RELAYS - multifunction, on DIN rail

multifunction with Inhibit (delay) 1x output contact

multifunction 3x output contacts 2nd & 3rd contact selection

multifunction galvanically separated control input

multifunction 3 control inputs

OFF DELAY without supply voltage

Technical parameters	CRM-111H	CRM-113H	CRM-121H	CRM-131H	CRM-82TO
Output	1x CO, 16 A	3x CO, 8 A	1x CO, 16 A	1x CO, 16 A	2x CO, 8 A
Housing	1-MODULE				
Supply voltage (frequency)	AC/DC 12-240 V (AC 50/60 Hz)	AC/DC 12-240 V (AC 50/60 Hz)	AC/DC 12-240 V AC 50/60 Hz)	AC/DC 12-240 V (AC 50/60 Hz)	AC/DC 12-240 V (AC 50/60 Hz)
Time range	50 ms - 30 days (10 ranges)	50 ms - 30 days (10 ranges)	50 ms - 30 days (10 ranges)	50 ms - 30 days (10 ranges)	0.1s - 10 min (4 ranges)
Number of functions	11	10	11	11	2
Dimensions	90 x 17.6 x 64 mm (3.5˝ x 0.7˝ x 2.5˝)				
Order code	7554	8063	7555	7556	7580
	All functions initiated by the supply voltage outside function FLASHER can be used to inhibit the control input delay (pause).	All functions initiated by the supply voltage outside function FLASHER can be used to inhibit the control input delay (pause). 2nd & 3rd contact mode selection.	Galvanically separated control input (Power Trigger) for control of independent external voltage in the range AC / DC 12-240 V.	Three control inputs – START, INHIBIT, RESET. Mode selection - according to the set function, permanently closed, permanently open, Memory latch with delay.	Relay is timing without power supply voltage and is switched off after set period. Two time functions: a - TRUE OFF DELAY e - ON DELAY

TIME RELAYS - single function, on DIN rail

choose from 4 functions 1x output contact

choose from 4 functions 3x output contacts

STAR / DELTA starter

asymmetric flasher 1x output contact

asymmetric flasher with two external potentiometers

ON DELAY 2-channel 2x output contacts

Technical parameters	CRM-181J	CRM-183J	CRM-2T	CRM-2H	CRM-2HE	SJR-2
Output	1x CO, 16 A	3x CO, 8 A	2x CO, 16 A	1x CO, 16 A	1x CO, 16 A	2x CO, 16 A
Housing	1-MODULE					
Supply voltage (frequency)	AC/DC 12-240 V (AC 50-60 Hz)	AC/DC 12-240 V (AC 50-60 Hz)	AC/DC 12-240 V or AC 230 V or AC 24-480 V	AC/DC 12-240 V or AC 230 V (AC 50-60 Hz)	AC/DC 12-240 V (AC 50-60 Hz)	AC/DC 12-240 V or AC 230 V (AC 50-60 Hz)
Time range	0.1s - 100 hrs (10 ranges)	0.1s - 100 hrs (10 ranges)	t1: 0.1s - 100 days, t2: 0.1s - 1s	0.1s - 100 days (10 ranges)	0.1s - 100 days (10 ranges)	0.1s - 10 days (10 ranges)
Dimensions	90 x 17.6 x 64 mm (3.5˝ x 0.7˝ x 2.5˝)					
	external potentiometer		**CRM-2T/UNI:** 7669 **CRM-2T/230V:** 1229 **CRM-2T/24-480V:** 4530	**CRM-2H/UNI:** 7668 **CRM-2H/230V:** 2420	**CRM-2HE/UNI:** 8144	**SJR-2/UNI:** 7670 **SJR-2/230V:** 1601
	ZR: OFF DELAY **CRM-181J/UNI ZR:** 8038 | **CRM-183J/UNI ZR:** 8061 **ZN:** INTERVAL ON **CRM-181J/UNI ZN:** 8039 | **CRM-183J/UNI ZN:** 8060 **BL:** FLASHER - ON first **CRM-181J/UNI BL:** 8040 | **CRM-183J/UNI BL:** 8058 **OD:** OFF DELAY **CRM-181J/UNI OD:** 8041 | **CRM-183J/UNI OD:** 8059		Time t1 **λ** (star) 0.1 s do 100 days. Time t2 (delay) **λ / ▲** 0.1 s - 1 s.	Asymmetric flasher with independently adjustable output closing and opening time. 2 time functions: • asymmetric flasher - ON first • asymmetric flasher - OFF first.	Asymmetric cycler with possibility of time control with external potentiometers. 2 time functions: • asymmetric flasher - ON first • asymmetric flasher - OFF first.	It is used for gradual (cascade) switching. 2 x independent ON DELAY outputs. Time adjustable from 0.1 s to 100 days.

mounted in Ø 25 mm hole in the panel

TIME RELAYS - multifunction, PLUG-IN

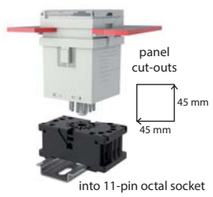
NEW

multifunction, 2x output contacts (2nd contact mode selection)

multifunction, 2x output contacts (2nd contact mode selection)

multifunction, 2x output contacts (2nd contact mode selection)

Technical parameters	PTRM-216TP	PTRM-216KP	PTRM-216T	PTRM-216K	PTRA-216T	PTRA-216K
Time setting	rotary selector	knob	rotary selector	knob	rotary selector	knob
Output	2x CO, 16 A					
Housing	PLUG-IN, into 11-pin octal socket					
Control input	line voltage trigger		control switch trigger		3 control inputs START, INHIBIT, RESET	
Supply voltage (frequency)	AC/DC 12-240 V (50/60 Hz)					
Time range	50 ms - 30 days (10 ranges)					
Number of functions	10					
Dimensions	48 x 48 x 79 mm	48 x 48 x 89 mm	48 x 48 x 79 mm	48 x 48 x 89 mm	48 x 48 x 79 mm	48 x 48 x 89 mm
Order code	7938	7861	7938	7557	7560	7559



into 11-pin octal socket

TIME RELAYS - digital, on DIN rail

STAIRCASE SWITCHES

multifunction
LCD display
1x output contact

multifunction
LED display
2x output contacts

classic with function
ON/AUTO/OFF

multifunction
extending time, signaling
before switching off

Technical parameters	CRM-100	PDR-2A	PDR-2B	CRM-4	CRM-46
Output	1x CO, 8 A	2x CO, 16 A		1x CO, 16 A	1x CO, 16 A
Housing	1-MODULE	3-MODULE		1-MODULE	1-MODULE
Supply voltage (frequency)	AC/DC 24-240 V (AC 50/60 Hz)	AC/DC 12-240 V or AC 230 V (AC 50/60 Hz)		AC 230 V (50/60 Hz)	AC 230 V (50/60 Hz)
Time range	0.1 s - 999 hrs	0.01 s - 100 hrs		0.5 s - 10 min	0.5 s - 30 min
Number of functions	17	16	10	3	6
Dimensions	90 x 17.6 x 64 mm (3.5˝ x 0.7˝ x 2.5˝)	90 x 52 x 65 mm (3.5˝ x 2˝ x 2.6˝)		90 x 17.6 x 64 mm (3.5˝ x 0.7˝ x 2.5˝)	
Order code	7453	**UNI:** 304 **230V:** 303	**UNI:** 306 **230V:** 305	7077	7491

Control input B1 is controlled by the supply voltage.

Multifunction programmable digital relay with 4-digit red LED display. It is used for applications where it is necessary to set the exact time (have a visual check).

PDR-2A: optional second relay function (16 functions)
PDR-2B: individual setting of the functions for both output contacts (10 functions).

It is used for delayed switching off of lighting on stairs, corridor, entrance ...
It is controlled by the button or several buttons from several places (connected in parallel).
3 or 4 wire connection.

Smart features:
- extending time
- premature shutdown
- impulse relay
- signalling before switching OFF.

3 or 4 wire connection.

TIME RELAYS - flush mounted

multifunction
3-wire (without NEUTRAL)
on input: LED bulb

multifunction
3-wire (without NEUTRAL)
on input: incandescent bulb

multifunction
4-wire (with NEUTRAL)
contactless output

multifunction
4-wire (with NEUTRAL)
1x output contact

Technical parameters	SMR-K	SMR-T	SMR-H	SMR-B
Output	1x triac	1x triac	1x triac	1x CO, 16 A ($AgSnO_2$)
Housing	BOX	BOX	BOX	BOX
Resistive load	10 - 160 VA	10 - 160 VA	0 - 200 VA	0 - 4000 VA
Inductive load	10 - 100 VA	10 - 100 VA	0 - 100 VA	0 - 2000 VA
Supply voltage (frequency)	AC 230 V (50/60 Hz)	AC 230 V (50/60 Hz)	AC 230 V (50/60 Hz)	AC 230 V (50/60 Hz)
Number of functions	9	9	9	10
Dimensions		49 x 49 x 13 mm (1.9˝x 1.9˝x 0.5˝)		49 x 49 x 21 mm (1.9˝x 1.9˝x 0.8˝)
Order code	4517	2910	2911	3556

BOX
flush mounted

Multifunction time relay for installation in an installation box for 3-wire connection (does not require NEUTRAL). An LED bulb or energy saver can be connected in parallel to the control input.

Like the SMR-K, but in parallel to the control input, unlike the SMR-K, neither an LED bulb nor an energy saver can be connected, only other types of loads, including glow plugs.

Multifunction time relay for installation in an installation box for 4-wire connection (requires Neutral). Not suitable for switching LED bulbs.

Multifunction time relay for installation in an installation box for 4-wire connection (requires Neutral). Thanks to the switching contact $AgSnO_2$, it is also suitable for switching LED bulbs or savings.

DIGITAL TIME SWITCHES

1-channel

weekly
2-channels

1-channel

weekly, annually
2-channels

with astronomical
program
2-channels

with synchronized
time (DCF77)
1-channel

smartphone app
control
2-channels

Technical parameters	SHT-1	SHT-1/2	SHT-3	SHT-3/2	SHT-4	SHT-6 (DCFR-1)	SHT-7
Program	weekly		weekly, annually		weekly, annually, astro	weekly, annually	
Replaceable battery	no		no		yes	yes	yes
Output	1x CO, 16 A	2x CO, 16 A	1x CO, 16 A	2x CO, 16 A	2x CO, 16 A	1x CO, 16 A	2x CO, 16 A
Housing	2-MODULE						
Supply voltage (frequency)	AC/DC 12-240 V or AC 230 V (AC 50/60 Hz)		AC/DC 12-240 V or AC 230 V (AC 50/60 Hz)		AC 230 V (50/60 Hz)	AC 230 V (50/60 Hz)	AC 230 V (50/60 Hz)
Dimensions	90 x 35 x 64 mm (3.5˝ x1.4˝ x 2.5˝)						
Order code	**UNI:** 3043 **230V:** 3042		**UNI:** 3041 **230V:** 3040		**UNI:** 3675 **230V:** 3676 **UNI:** 2904 **230V:** 2901	4475	4838	3549

DFC77 receiver
for SHT-6
DCFR-1

It is used to control various appliances depending on the real time: with weekly (SHT-1), and weekly and annualy (SHT-3) program.
Power backup in case of battery power failure. Backlit LCD display, sealable cover.
Possibility of automatic summer / winter time transition.
Additional functions: manual control, random switching, and pulse output.

Switches the output according to the time of sunrise and sunset based on geographical coordinates or European cities.

As SHT-3, but real time can be synchronized via DCF77 receiver.

Settings via smartphone with NFC communication (Android).

ANALOG TIME SWITCHES

with daily program
and power backup

with daily program

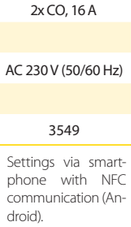
with daily program
and power backup

with weekly program
and power backup

Technical parameters	ATS-1DR	ATS-2D	ATS-2DR	ATS-2WR
Program	daily			weekly
Power backup	yes (max. 100 hrs)	no	yes (max. 150 hrs)	yes (max. 150 hrs)
Minimum switching interval	15 min	30 min	30 min	3.5 hrs
Output	1x NO, 16 A	1x CO, 16 A		
Resistive load	3500 VA			
Inductive load	1000 VA			
Housing	1-MODULE	2-MODULE		
Supply voltage (frequency)	AC 230 V (50/60 Hz)	AC 230 V (50 Hz)	AC 230 V (50/60 Hz)	AC 230 V (50/60 Hz)
Dimensions	90 x 17.6 x 64 mm	90 x 35 x 60 mm		
Order code	8211	8212	8213	8214

A simple and inexpensive alternative to digital switches for controlling real-time heating, ventilation, cooling, lighting or pumps.
With daily or weekly program. Selection of operating modes.
Sealable transparent front panel cover to prevent unauthorized access.

iNELS Home
NFC Setter



App
download

POWER RELAYS

1x 16 A contact coil: AC 230 V | 1x 16 A contact coil: AC 230 V | 1x 16 A contact coil: UNI | 3x 8 A contacts coil: AC 230 V | 3x 8 A contacts coil: UNI | 3x 16 A contact: coil: AC/DC 24 V | 3x 16 A contacts coil: AC 230 V

Technical parameters	VS116B/230	VS116K	VS116U	VS308K	VS308U	VS316/24	VS316/230
Output	1x CO, 16 A ($AgSnO_2$)			3x CO, 8 A (AgNi)		3x CO, 16 A ($AgSnO_2$)	
Housing	BOX	1-MODULE					
Coil supply voltage (frequency)	AC 230 V (50/60 Hz)	AC/DC 24 V and AC 230 V (AC 50/60 Hz)	AC/DC 12-240 V (AC 50/60 Hz)	AC/DC 24 V and AC 230 V (AC 50/60 Hz)	AC/DC 12-240 V (AC 50/60 Hz)	AC/DC 24 V (AC 50/60 Hz)	AC 230 V (50/60 Hz)
Dimensions	49 x 49 x 21 mm (1.9˝x 1.9˝x 0.8˝)	90 x 17.6 x 64 mm (3.5˝ x 0.7˝ x 2.5˝)					
Order code	4754	codes below					
		VS116K/red: 2295	**VS116U/red:** 2460	**VS308K/red:** 2269	**VS308U/red:** 3010	**VS316/24V red:** 3577	**VS316/230V red:** 4471
		VS116K/green: 2261	**VS116U/green:** 3643	**VS308K/green:** 2271	**VS308U/green:** 3644	**VS316/24V green:** 3610	**VS316/230V green:** 4472
		VS116K/white: 2257	**VS116U/white:** 3848	**VS308K/white:** 2267	**VS308U/white:** 3851	**VS316/24V white:** 3609	**VS316/230V white:** 4470
		VS116K/blue: 2260	**VS116U/blue:** 3847	**VS308K/blue:** 2270	**VS308U/blue:** 3850	**VS316/24V blue:** 3611	**VS316/230V blue:** 4474

INSTALLATION CONTACTORS

1x20 A | 2x20 A | 4x25 A | 4x40 A | 4x63 A | 4x20 A | 2x20 A with manual control | 4x25 A with manual control

Technical parameters	VS120	VS220	VS425	VS440	VS463	VS420	VSM220	VSM425
Max. load capacity	20 A	20 A	25 A	40 A	63 A	20 A	20 A	25 A
Number of poles	1	2	4	4		4	2	4
Contact configuration (NO/NC)	10, 01	20, 11, 02	40, 31, 22, 04	40, 31, 22, 04	40, 31, 22	40, 31	20, 11, 02	40, 31, 22, 04
Coil supply voltage (frequency)	AC/DC 24 V, 230 V (AC 50/60 Hz)	AC/DC 24 V, 48 V, 110 V, 230 V (AC 50/60 Hz)	AC/DC 24 V, 48 V, 110 V, 230 V (AC 50/60 Hz)	AC/DC 24 V, 110 V, 230 V (AC 50/60 Hz)	AC/DC 24 V, 48 V, 110 V, 230 V (AC 50/60 Hz)	AC 12 V, 24 V, 48 V, 110 V, 230 V (50/60 Hz)	AC 12 V, 24 V, 110 V, 230 V (50/60 Hz)	AC 12 V, 24 V, 42 V, 230 V (50/60 Hz)
Dimensions	17.5 x 85 x 60 mm		35 x 85 x 60 mm	53.3 x 84 x 60 mm		35 x 62.5 x 57 mm	17.5 x 85 x 60 mm	35 x 85 x 60 mm

These contactors are characterized by soft-switching operation, with DC coil and rectifier, what ensures a quiet operation and running.
Used to switch electrical circuits, in particular resistive loads and three-phase asynchronous motors.
IP20 protection - guards providing IP40 protection of all contactor (VS420 excluded) terminals are available upon request.
It is possible to connect auxiliary contact VSK-11 and VSK-20 to the contactors VS220, 425, 440, 463.
Installation on DIN rail or on panel.

Like VS, but moreover slide switch allowing manual control 1-AUTO-OFF.

BISTABLE (IMPULSE) RELAYS

MEMORY RELAYS

1x NO, 16 A contact | 2x NO/NC, 16 A contacts | 2x NO, 16 A contacts | 2x NO, 20 A contacts with remote control | 2x NO, 32 A contacts | electronic version - noiseless 1x CO, 16 A contact | electronic version - noiseless 2x CO, 16 A contacts

Technical parameters	BR-216-10		BR-216-11		BR-216-20		BR-220-20		BR-232-20		MR-41		MR-42	
Output	1x NO, 16 A		1x NO+1x NC, 16 A		2x NO, 16 A		2x NO, 20 A		2x NO, 32 A		1x CO, 16 A		2x CO, 16 A	
Housing	1 -MODULE										1-MODULE			
Coil supply voltage (frequency)	AC 120 V (60 Hz)	AC 230 V (50 Hz)	AC 120 V (60 Hz)	AC 230 V (50 Hz)	AC 120 V (60 Hz)	AC 230 V (50 Hz)	AC 120 V (60 Hz)	AC 230 V (50 Hz)	AC 120 V (60 Hz)	AC 230 V (50 Hz)	AC 230 V (50/60 Hz)	AC/DC 12-240 V (AC 50/60 Hz)	AC 230 V (50/60 Hz)	AC/DC 12-240 V (AC 50/60 Hz)
Coil disconnector	x		x		x		yes		yes		x		x	
Order code	6969	6885	6970	6887	6971	6886	6972	6888	6973	6889	1588	1589	1590	1591

The state of the output contacts changes with the coil pulse. They can be used mainly for switching and control of luminaires, heating, ventilation and other devices - with buttons connected in parallel.
All relays can be controlled manually using the lever on the front panel (I-0), which also serves as a status signal.
In addition, the BR-220 and BR-232 have a switch for disconnecting the coil, as a result of which it can then only be operated with a slide switch on the front panel.
In steady state (ON or OFF) it has zero consumption.

Similar to the Bistable BR relay, but thanks to the electronic design, the switching is almost noiseless.
The relays remember their state even after the power failure is restored (the output is always OFF in the event of a power failure, after the power supply is restored it automatically returns to the state before the power failure).
MR-42: 2nd output option:
a) Parallel contact b) step relay

TWILIGHT SWITCHES

analog with external sensor | digital with time switch clock | for outdoor use with built-in sensor | external photo sensor

Technical parameters	SOU-1		SOU-2	SOU-3	SKS-100
Output	1x CO, 16 A		1x CO, 8 A	1x NO, 12 A	
Housing	1-MODULE		2-MODULE	box with IP65	
Supply voltage (frequency)	AC/DC 12-240 V (AC 50/60 Hz)	AC 230 V (50/60 Hz)	AC 230 V (50/60 Hz)	AC 230 V (50/60 Hz)	
Sensor	external, SKS-100		external, SKS-100	built-in	
Adjustable light intensity	1 - 50 000 lx (in 2 ranges)		10 - 50 000 lx	1 - 100 000 lx (in 3 ranges)	
Dimensions	90 x 17.6 x 64 mm (3.5˝ x 0.7˝ x 2.5˝)		90 x 35 x 64 mm (3.5˝ x 1.4˝ x 2.5˝)	98 x 62 x 34 mm (3.9˝ x 2.4˝ x 1.3˝)	Ø 24 x 58 mm
Order code	2101	2100	230V+sensor: 4835	4056	8083

Twilight switch (1-100 lx) or (100-50 000 lx), which closes the output when the level falls below the set level, or light switch. External sensor SKS-100 included in the package.

Digital twilight switch with timer, i.e. the lighting level can be blocked in real time.
External sensor SKS-100 included in the package.

Twilight switch (1-1000 lx), which closes the output when falling below the set level or light switch (100-100.000 lx), which closes the output when the level is exceeded.

New external photo sensor SKS-100 with photo resistor for panel or wall mounting, via the included bracket.

POWER SUPPLIES - DC

15 W 12 V | 15 W 24 V | 24 W 12 V | 30 W 24 V | 54 W 12 V | 60 W 24 V | 85 W 12 V | 92 W 24 V | 10 W 12 V | 10 W 24 V | 30 W regulated 12-24 V

Technical parameters	PS1M		PS2M		PS3M		PS4M		PSB-10		PS-30R
Output voltage	DC 12 V	DC 24 V	DC 12 V	DC 24 V	DC 12 V	DC 24 V	DC 12 V	DC 24 V	DC 12 V	DC 24 V	DC 12-24 V
Max. load	1.2 A/15 W	0.62 A/15 W	2 A/24 W	1.2 A/30 W	4.5 A/54 W	2.5 A/60 W	7.1 A/85	3.8 A/92 W	0.8 A/10 W	0.4 A/10 W	2.5-1.2 A/30 W
Housing	1-MODULE		2-MODULE		3-MODULE		4-MODULE		BOX		3-MODULE
Supply voltage (frequency)	AC 100-240 V (50/60 Hz)								AC 110-250 V (50/60 Hz)		AC 100-250 V (50/60 Hz)
Protective circuits	overload, overvoltage and short circuit								short circuit, current and temperature overload (from 120% of rated power)		
Dimensions	90 x 18 x 58 mm (3.5˝ x 0.7˝ x 2.6˝)		90 x 35 x 58 mm (3.5˝ x 1.4˝ x 2.3˝)		90 x 52.5 x 58 mm (3.5˝ x 2.1˝ x 2.3˝)		90 x 70 x 58 mm (3.5˝ x 2.8˝ x 2.3˝)		49 x 49 x 21 mm (1.9˝x 1.9˝x 0.8˝)		90 x 52 x 65 mm (3.5˝ x 2˝ x 2.6˝)
	PS1M-15/12V: 8047 **PS1M-15/24V:** 8048 **PS2M-24/12V:** 8049 **PS2M-30/24V:** 8050				**PS3M-54/12V:** 8051 **PS3M-60/24V:** 8052 **PS4M-85/12V:** 8053 **PS4M-92/24V:** 8054				**PSB-10-12:** 4502 **PSB-10-24:** 4378		**PS-30-R:** 5158
	Switching stabilized power supply with output voltage 12 or 24 V DC with the possibility of fine tuning. High efficiency up to 90%. Low warp and noise.								Stabilized power supply for mounting in the installation box.		Adjustable output voltage in the range of 12-24 V.

POWER SUPPLIES - AC & DC

8 VA regulated DC 5-24 V | 8 VA/24 V unstabilized

BELL TRANSFORMERS

8 VA AC 8 V | 8 VA AC 12 V | 5-15VA 4 V | 8 V | 12 V

Technical parameters	ZSR-30	ZNP-10-24V	ZTR-8-8	ZTR-8-12	ZTR-15-12
Output voltage	DC 5-24 V regulated DC 24 V unstabilized AC 24 V	DC 24 V unstabilized AC 24 V	AC 8 V	AC 12 V	AC 4 V / AC 8 V / AC 12 V
Max. load	8 VA	8 VA	8 VA		5 VA / 10 VA / 15 VA
Housing	3-MODULE	3-MODULE	2-MODULE		3-MODULE
Supply voltage (frequency)	AC 230 V (50/60 Hz)	AC 230 V (50/60 Hz)	AC 230 V (50 Hz)		
Protections	short circuit and current overload	-	short circuit (on primary winding)		
Dimensions	90 x 52 x 65 mm (3.5˝ x 2˝ x 2.6˝)		90 x 36 x 64 mm (3.5˝ x 1.5˝ x 2.6˝)		90 x 52 x 65 mm (3.5˝ x 2˝ x 2.6˝)
Order code	175	408	3680	3681	3928
	Adjustable output voltage in the range of DC 5-24 V.	Un-stabilized AC + DC output voltage.	For powering doorbells, door locks, etc.		

DIMMERS - on DIN rail

universal controlled dimmer 300 VA | staircase switch with dimming 500 VA | universal controlled dimmer 2000 VA | expanding power module for DIM-6 1000 VA

Technical parameters	DIM-15	DIM-2	DIM-6	DIM6-3M-P
Dimmable loads	R - L - C - ESL - LED	R - L - LED	R - L - C - LED	R - L - C - LED
Output	2x MOSFET	1x triac	4x MOSFET	2x MOSFET
Output loads	300 VA	R: 10-500 VA, L: 10-250 VA	2000 VA	1000 VA
Protections	overheating and overload	overheating	overheating and overload	overheating and overload
Housing	1-MODULE		6-MODULE	3-MODULE
Supply voltage (frequency)	AC 230 V (50 Hz)	AC 230 V (50 Hz)	AC 230 V (50 Hz)	AC 230 V (50 Hz)
Dimensions	90 x 17.6 x 64 mm (3.5˝ x 0.7˝ x 2.5˝)		90 x 105 x 65 mm (3.5˝ x 4.1˝ x 2.6˝)	90 x 52 x 65 mm (3.5˝ x 2˝ x 2.6˝)
Order code	4069	DIM-2: 1247 DIM-2-1h: 3574	3691	3910

MODULE on DIN rail

The type of light source is set with a switch on the front panel. Setting the minimum brightness with the potentiometer on the front panel eliminates the flickering of some types of energy-saving light bulbs (ESL) and LED.

The gradual increase of brightness, deceleration and duration of illumination can be set by potentiometers on the panel:
- rise and falling length: 1 - 40 s
- light duration: 0 - 20 min
- brightness: 10 - 100%

The dimmer can be controlled in several ways: with buttons, an external potentiometer, and an analog signal 0(1)-10 V or with the iNELS BUS system. Power expandable up to 10 kVA DIM6-3M-P modules.

Expansion module for DIM-6. 8 of these modules expand the power of the DIM-6 up to 10,000 VA.

DIMMERS - flush mounted - on DIN rail

universal dimmer 4-wires (with NEUTRAL) | dimmer 3-wires (without NEUTRAL) | lighting intensity controller, controls the source directly | lighting intensity controller, controls the 0-10 V ballast | universal dimmer 6-channels R - L - C - ESL - LED

Technical parameters	SMR-M	SMR-S	LIC-1	LIC-2	RFDEL-76M
Dimmable loads	R - L - C - ESL - LED	R - L - LED	R - L - C - ESL - LED	voltage output 0 (1) - 10 V	R - L - C - ESL - LED
Output	2x MOSFET	1x triac	2x MOSFET	1x NO, 16 A	12x MOSFET
Output loads	160 VA	R: 10-300 VA, L: 10-150 VA	300 VA	4000 VA	6x 150W (230V) / 6x 75W (120V)
Protections	overheating and overload	fuse	overheating and overload	-	overheating and overload
Housing	BOX		1-MODULE		6-MODULE
Supply voltage (frequency)	AC 230 V (50 Hz)	AC 230 V (50 Hz)	AC 230 V (50 Hz)	AC 100-250 V (50 Hz)	230 V (50 Hz) or AC 120 V (60 Hz)
Dimensions	49 x 49 x 21 mm (1.9˝x 1.9˝x 0.8˝)	49 x 49 x 13 mm (1.9˝x 1.9˝x 0.5˝)	90 x 17.6 x 64 mm (3.5˝ x 0.7˝ x 2.5˝)		90 x 105 x 65 mm (3.5˝ x 4.1˝ x 2.6˝)
Order code	4377	2351	4493	4531	8205

BOX flush mounted

The type of light source is set with a switch on the instrument panel.

3-wire connection (without NEUTRAL), but minimum load 10 W.

It automatically maintains the intensity of artificial lighting in the room according to an external outdoor light sensor.

As LIC-1, but at the output a continuous analog signal 0 (1)-10 V for controlling electric ballasts.

Universal 6-channel dimmer with an output of 900 VA. The outputs can be connected in parallel and multiply the power at the expense of the number of outputs. Control with wired buttons or wireless iNELS RF.

CONTROLLING AND SIGNALLING MODULES

USS-ZM
Basic module

USS

Designated for switching, control and signaling of auxiliary and power circuits.
USS - "Do-it-yourself" = various types of switching and signaling units can be "snapped" in the basic module.
Units are supplied separately, individual configurations are assembled by the user. It is possible to place up to two units into one MODULE (for example 2x switch, 2x signalling lights or combinations) = when compared with competitors it is saving place in a switch board.
Operating temperature -20 to +55°C.

Example of combinations

USS-01 + USS-03

USS-07 + USS-11

USS-11 + USS-01

USS-10 + USS-00

USS-10 + USS-11

USS-07 + USS-00

Types of controlling and signalling units

Switch

Alternation switch

Switch with central position

Switch + push button with central position

Push button with central position

Push button NO

Push button NC

Name	USS-01	USS-02	USS-03	USS-04	USS-05	USS-06/S	USS-06/R
Order code	2462	2463	2464	2465	2466	2467	3637

Switch with glow lamp (red)

Switch with glow lamp (green)

Switch with glow lamp (yellow)

Signalling LED (red)

Signalling LED (green)

Signalling LED (yellow)

Signalling LED (white)

Name	USS-07	USS-08	USS-09	USS-10	USS-11	USS-12	USS-13
Order code	2468	2468	2470	2433	2434	2435	2436

Signalling LED flashing (red)

Signalling LED flashing (blue)

Used to fill an empty position in the front panel

Name	USS-14	USS-15	USS-0
Order code	2489	2437	2461

USS-ZM
2457

PROTECTION AND MONITORING RELAYS

Monitoring relays - overview

Type	Design	Supply from	Features				Phase			Setting			Description
			Phases	Monitored range	>U	<U	Failure	Sequence	Asymmetry	Delay	Hysteresis	Memory Errors	
HRN-33	1-M	monitored voltage	1	AC 48 - 276 V	●	●	x	x	x	●	x	x	For all types, the delay is adjustable from 0 - 10 seconds (to eliminate short-term outages or peaks). The lower voltage level (Umin) is set in % of the upper level (Umax).
HRN-63	1-M	monitored voltage	1	AC 48 - 276 V	●	●	x	x	x	●	x	x	
HRN-35	1-M	monitored voltage	1	AC 48 - 276 V	●	●	x	x	x	●	x	x	
HRN-34	1-M	monitored voltage	1	DC 6 - 30 V	●	●	x	x	x	●	x	x	
HRN-37	1-M	monitored voltage	1	AC 24 - 150 V	●	●	x	x	x	●	x	x	
HRN-67	1-M	monitored voltage	1	AC 24 - 150 V	●	●	x	x	x	●	x	x	
HRN-34	1-M	monitored voltage	1	DC 6 - 30 V	●	●	x	x	x	●	x	x	
HRN-64	1-M	monitored voltage	1	DC 6 - 30 V	●	●	x	x	x	●	x	x	
HRN-41/230 V HRN-41/400 V HRN-41/24 V	3-M	AC 230 V AC 400 V AC/DC 24 V	1	AC/DC 50 V AC/DC 160 V AC/DC 500 V	●	●	x	x	x	●	●	●	Second relay function (independent or parallel). Galvanically separated power supply from measuring inputs.
HRN-42/230 V HRN-42/24 V	3-M	AC 230 V AC/DC 24 V	1	AC/DC 50 V AC/DC 160 V AC/DC 500 V	●	●	x	x	x	●	●	●	
HRN-55	1-M	monitored voltage	3	AC 3 x 300 - 500 V	x	x	●	●	x	●	x	x	Power supply from all phases, i.e. the relay function is preserved even if one phase fails.
HRN-55N	1-M	monitored voltage	3	AC 3 x 172 - 287 V	x	x	●	●	x	●	x	x	Power supply L1-N, i.e. the relay also monitors the neutral wire interruption.
HRN-57	1-M	monitored voltage	3	AC 3 x 300 - 500 V	●	●	●	x	x	●	x	x	Power supply from all phases, i.e. the relay function is preserved even if one phase fails.
HRN-57N	1-M	monitored voltage	3	AC 3 x 172 - 287 V	●	●	●	x	x	●	x	x	Power supply L1-N, i.e. the relay also monitors the neutral wire interruption, replacement for HRN-52.
HRN-54	1-M	monitored voltage	3	AC 3 x 300 - 500 V	●	●	●	●	x	●	x	x	If the supply voltage falls below 60% of Un (OFF lower level), the relay will immediately disconnects with no delay. Power supply from all phases, i.e. the relay function is preserved even if one phase fails.
HRN-54N	1-M	monitored voltage	3	AC 3 x 172 - 287 V	●	●	●	●	x	●	x	x	If the supply voltage falls below 60% of Un (OFF lower level), the relay will immediately disconnects with no delay. Power supply L1-N, i.e. the relay also monitors the neutral wire interruption.
HRN-43/230 V HRN-43/400 V HRN-43/24 V	3-M	AC 230 V AC 400 V AC/DC 24 V	3	AC 3 x 84 - 480 V	●	●	●	●	●	●	●	●	2 output relays, functions of the second relay may be selected (independent/parallel). Galvanically separated power supply.
HRN-43N/230 V HRN-43N/400 V HRN-43N/24 V	3-M	AC 230 V AC 400 V AC/DC 24 V	3	AC 3 x 48 - 276 V	●	●	●	●	●	●	●	●	
HRN-56/208 HRN-56/240 HRN-56/400	1-M	monitored voltage	3	AC 3 x 125 - 276 V AC 3 x 144 - 276 V AC 3 x 240 - 460 V	x	●	●	●	x	●	x	x	Thanks to the power supply from all three phases, the relay is operational even if one phase fails.
HRN-56/480 HRN-56/575	3-M	monitored voltage	3	AC 3 x 228 - 550 V AC 3 x 345 - 660 V	x	●	●	●	x	●	x	x	
HRN-100	2-M	monitored voltage	3	U_{LN} = 3 ~ 155 - 500 V U_{LL} = 3 ~ 90 - 288 V	●	●	●	●	●	●	●	●	Configurable 3 or 4-wire connection. Extensive setting options. Each output can be configured individually.

MONITORING RELAYS - voltage, 1-phase, AC

1-phase, mains voltage 48-276 V overvoltage and undervoltage = 1x output

1-phase, mains voltage 48-276 V overvoltage = 1x output undervoltage = 1x output

1-phase, mains voltage 24-150 V overvoltage and undervoltage = 1x output

WINDOW | **HYSTERESIS**

Technical parameters	HRN-33	HRN-63	HRN-35	HRN-37	HRN-67
Type of monitored voltage	AC		AC	AC	
Monitored levels	undervoltage and overvoltage		undervoltage and overvoltage	undervoltage and overvoltage	
Functions	WINDOW	HYSTERESIS	WINDOW	WINDOW	HYSTERESIS
Monitoring range	48-276 V		48-276 V	24-150 V	
Output	1x CO, 16 A		2x CO, 16 A	1x CO, 16 A	
Housing	1-MODULE				
Power supply	from monitored voltage				
Dimensions	90 x 17.6 x 64 mm (3.5˝ x 0.7˝ x 2.5˝)				
Order code	1563	3062	1565	3061	3064

1x common output contact for overvoltage and undervoltage.
Adjustable delay 0 - 10 s to eliminate short-term peaks in the network.

2x independent output contacts, separately for overvoltage and undervoltage.
Adjustable delay 0 - 10 s to eliminate short-term peaks in the network.

1x output contact for overvoltage and undervoltage.
Adjustable delay 0 - 10 s to eliminate short-term peaks in the network.

MONITORING RELAYS - voltage, 1-phase, DC

DC voltage 6-30 V batteries and accumulators overvoltage and undervoltage = 1x output

DC voltage 6-30 V batteries and accumulators overvoltage and undervoltage = 1x output

- voltage, 1-phase, AC or DC

with three input ranges for AC / DC monitoring in 1-phase network

with three input ranges for AC / DC monitoring in 1-phase network

Technical parameters	HRN-34	HRN-64	HRN-41	HRN-42
Type of monitored voltage	DC		AC / DC	
Monitored levels	undervoltage and overvoltage		undervoltage and overvoltage	
Functions	WINDOW	HYSTERESIS	WINDOW	HYSTERESIS
Monitoring range	6-30 V		3 inputs: 10-50 V; 32-160 V; 100-500 V	
Supply voltage	1x CO, 16 A		2x CO, 16 A	
Housing	1-MODULE		3-MODULE	
Power supply	from monitored voltage		AC/DC 24 V, 230 V, 400 V	AC/DC 24 V, 230 V
Dimensions	90 x 17.6 x 64 mm (3.5˝ x 0.7˝ x 2.5˝)		90 x 52 x 65 mm (3.5˝ x 2˝ x 2.6˝)	
Order code	**HRN-34:** 1564	**HRN-64:** 3063	**HRN-41/24V:** 4041 **HRN-41/230V:** 4721 **HRN-41/400V:** 4722	**HRN-42/24:** 4723 **HRN-42/230V:** 4725

1x output contact for overvoltage and undervoltage.
Adjustable delay 0 - 10s.

Independent supply voltage galvanically separated from the measured one, optional function of the 2nd relay, optional hysteresis 5% / 10%, Memory function.

MONITORING RELAYS - voltage, 3-phases

3 x 300-500 V **without NEUTRAL**

3 x 172-287 V **with NEUTRAL**

3 x 300-500 V **without NEUTRAL**

3 x 172-287 V **with NEUTRAL**

3 x 300-500 V **without NEUTRAL**

3 x 172-287 V **with NEUTRAL**

3 x 84 - 480 V **without NEUTRAL**

3 x 48 -276 V **with NEUTRAL**

Technical parameters	HRN-55	HRN-55N	HRN-57	HRN-57N	HRN-54	HRN-54N	HRN-43	HRN-43N
Phase failure	●	●	●	●	●	●	●	●
Phase sequence	●	●	x	x	●	●	●	●
Overvoltage	x (fixed)	x (fixed)	●	●	●	●	●	●
Undervoltage	x (fixed)	x (fixed)	●	●	●	●	●	●
Asymmetry	x	x	x	x	x	x	●	●
Monitored range	AC 3 x 300-500 V	AC 3 x 172-287 V	AC 3 x 300-500 V	AC 3 x 172-287 V	AC 3 x 300-500 V	AC 3 x 172-287 V	AC 3 x 84 - 480 V	AC 3 x 48 -276 V
Supply voltage	1x CO, 8 A						2x CO, 16 A	
Housing	1-MODULE						3-MODULE	
Power supply	from monitored voltage						AC/DC 24 V, AC 230 V, AC 400 V	
Dimensions	90 x 17.6 x 64 mm (3.5˝ x 0.7˝ x 2.5˝)						90 x 52 x 65 mm (3.5˝ x 2˝ x 2.6˝)	
Order code	7512	7513	7514	7515	7498	7511	**24V:** 4731 **230V:** 4729 **400V:** 4730	**24 V:** 4731 **230 V:** 4733 **400 V:** 4734

MONITORING RELAYS - voltage, 3-phases

3 x 125-276 V

3 x 144-276 V

3 x 240-460 V

3x 228-550 V

monitors 3 phases (without NEUTRAL) with adjustable undervoltage level

3 x 345-660 V

voltage monitoring relay with LCD display

Technical parameters	HRN-56/208	HRN-56/240	HRN-56/400	HRN-56/480	HRN-56/575	HRN-100
Phase failure	●	●	●	●	●	●
Phase sequence	●	●	●	●	●	●
Overvoltage	x	x	x	x	x	●
Undervoltage	●	●	●	●	●	●
Asymmetry	x	x	x	x	x	●
Monitored range	AC 3x 125-276 V	AC 3x 144-276 V	AC 3x 240-460 V	AC 3x 228-550 V	AC 3x 345-660 V	U_{LL} = 3 ~ 155-500 V U_{LN} = 3 ~ 90-288 V
Supply voltage	1x CO, 8 A					
Housing	1-MODULE			3-MODULE		2-MODULE
Power supply	from monitored voltage					
Dimensions	90 x 17.6 x 64 mm (3.5˝ x 0.7˝ x 2.5˝)			90 x 52 x 65 mm (3.5˝ x 2˝ x 2.6˝)		90 x 36 x 64 mm (3.5˝ x 1.5˝ x 2.6˝)
Order code	3710	3711	3712	3018	3019	7122

MONITORING RELAYS - current, 1-phase, AC

monitors the overcurrent of the conductor through the hole in the front panel

monitors undercurrent connected to measuring inputs

monitors overcurrent on measuring terminals in 7 ranges

monitors the overcurrent of the conductor through the hole in the body of the device

Technical parameters	PRI-32	PRI-50	PRI-51	PRI-52
Voltage type	AC	AC	AC	AC
Monitored levels	overcurrent	undercurrent	overcurrent	overcurrent
Monitored range	1 - 20 A (50/60 Hz)	2 - 6 A (50/60 Hz)	0.05 - 16 A (50/60 Hz) in 7 ranges	0.5 - 25 A (50/60 Hz)
Output type	1x CO, 8 A	1x CO, 8 A	1x CO, 8 A	1x CO, 8 A
Housing	1-MODULE			
Supply voltage (frequency)	AC 24-240 V, DC 24 V (AC 50/60 Hz)	AC/DC 24-240 V (AC 50/60 Hz)	AC 24-240 V, DC 24 V (AC 50/60 Hz)	AC 230 V (50/60 Hz)
Dimensions	90 x 17.6 x 80.5 mm (3.5˝ x 0.7˝ x 3.2˝)	90 x 17.6 x 64 mm (3.5˝ x 0.7˝ x 2.5˝)		
Order code	**PRI-32:** 2196	**PRI-50:** 4208	Choose from 7 ranges:	**PRI-52:** 3655

Monitor current level in single-phase AC circuits. The device has also in-built current transformer on the front panel.

It is used, for example, to monitor the operation of pumps, interrupts of radiators or lighting.

PRI-51/0.5A: 7037 (AC 0.05-0.5A)
PRI-51 /1A: 7038 (AC 0.1-1A)
PRI-51/2A: 7039 (AC 0.2-2A)
PRI-51/5A: 7040 (AC 0.5-5A)
PRI-51/8A: 7041 (AC 0.8-8A)
PRI-51/0.1-10A: 7072 (AC 0.1-10A)
PRI-51/16A: 7045 (AC 1.6-16A)

Used to indicate the current flow, e.g. to monitor wire heating cables, rod heating elements, to monitor the consumption of engines… Hole for threaded conductor passes through the body of device.

MONITORING RELAYS - current, 3-phases, AC - current, 1-phase, AC or DC

monitors overcurrent and undercurrent in 3-phases circuits
2x output contacts

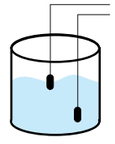
monitors overcurrent or undercurrent in AC or DC circuits in 3 ranges, 2x independent output contacts
WINDOW HYSTERESIS

Technical parameters	PRI-53		PRI-41	PRI-42
Voltage type	AC		AC / DC	
Monitored levels	overcurrent and undercurrent		overcurrent and undercurrent	overcurrent and undercurrent
Function	-		WINDOW	HYSTERESIS
Monitored range	0.4-1,2 (50/60 Hz)	2-6 A (50/60 Hz)	3 inputs: 0.1-1.6 A, 0.3 -5 A, 1-16 A (AC 50/60 Hz)	3 inputs: 0.32-1.6 A, 1-5 A, 3.2-16 A (AC 50/60 Hz)
Output type	2x CO, 8 A		2x CO, 16 A	
Housing	6-MODULE		3-MODULE	
Voltage range	AC/DC 24 - 240 V (AC 50/60 Hz)		AC 110 V; AC 230 V; AC 400 V; AC/DC 24 V (AC 50/60 Hz)	
Dimensions	90 x 105 x 64 mm (3.5˝ x 4.1˝ x 2.6˝)		90 x 52 x 65 mm (3.5˝ x 2˝ x 2.6˝)	
Order code	4213	4214	**24V:** 4741 **230V:** 4743	**24V:** 4747 **230V:** 4745

AC/DC 24-240 V power supply galvanically separated from the circuit of the monitored current. Adjustable function: UNDER or OVER current.
2 types according to the rated current In (1A, 5A).

Independent supply voltage galvanically separated from the measured one, optional function of the 2nd relay, optional hysteresis 5% / 10%, Memory function.

LEVEL MONITORING RELAY



for monitoring one or two levels

for monitoring one or two levels in IP65 protection

for checking one or two levels, or pumping of tanks

for monitoring 6-levels each probe has its own output contact

Technical parameters	HRH-5	HRH-7	HRH-8	HRH-9
Output	1x CO, 8 A	1x CO, 16 A	2x CO, 16 A	6x NO, 10 A
Sensitivity	5-100 kΩ	5-100 kΩ	5-100 kΩ	10-470 kΩ
Number of functions	2	2	8	10
Housing	1-MODULE	BOX	1-MODULE	6 -MODULE
Supply voltage (frequency)	24-240 V AC/ DC (AC 50/60 Hz)	24-240 V AC/DC (AC 50/60 Hz)	AC/DC 24 V; AC 110 V; AC 230 V; AC 400 V (AC 50/60 Hz)	AC/DC 24-240 V (AC 50/60Hz)
Dimensions	90 x 17.6 x 64 mm (3.5˝ x 0.7˝ x 2.5˝)	139 x 139 x 56 mm (5.5 x 5.5 x 2.2˝)	90 x 52 x 65 mm (3.5˝ x 2˝ x 2.6˝)	90 x 105 x 65 mm (3.5˝ x 4.1˝ x 2.6˝)
Order code	8093	4947	**230V:** 5542 **24V:** 5556	8133

The relay is designed for monitoring the level of conductive fluids with the option of selecting functions: pump-up or pump-down. Optionally set configurations: single-level or double level switch.

Suitable to operate/work in harsh conditions due to the high degree of protection IP65. The same functions as for HRH-5.

Within one device, the following configurations can be selected:
- 2x one-level monitoring (in separate tanks)
- 1x two-level monitoring (in one tank)
- pumping from one tank to another.

Each of the six probes has its own output contact.
Optional function of each probe independently:
- pump-up
- pump-down
- including optional delay.
Automatic and manual calibration.

LEVEL MONITORING RELAY

for controlling five levels in IP65 protection

Technical parameters	HRH-6/DC	HRH-6/AC
Output type	1x NO, 10 A	
Sensitivity	10 - 200 kΩ	
Number of functions	2	
Housing	box IP65	
Voltage range (frequency)	DC 12-24 V or AC 230 V (AC 50/60 Hz)	
Dimensions	110 x 130 x 72 mm (4.3˝ x 5.1˝ x 2.8˝)	
Order code	3740	3699

Device monitors 5 levels by using six probes (one probe is common). Level indication by six LED's on the front panel of the device.

LEVEL MONITORING SETS

set of HRH-5 relay and contactor

set of HRH-5, contactor and motor starter

HRH-4

HRH-4/230V 209970800023

It is a complete unit consisting of HRH-5 level relay and VS425 contactor.
Designated for an automatic operation in 1-phased and 3-phased pumps.

HRH-5 VS425 contactor

HRH-MS-VS-4A

There are Level sets placed in switchboard with IP65 protection (protected against dust and against water jets).

HRH-MS-VS-4A: 5071

Level switch HRH-5 with installation contactor VS425-40 (25 A contact) and with motor starter MS18 2.5-4 A.

HRH-5 VS425 contactor Motor starter

PROBES AND CABLES

ACCESSORIES

SHR-1-M: 209970800002 brass sensor.
SHR-1-N: 209970800001 stainless steel sensor.
SHR-2: 209970800003 Stainless steel sensor in PVC housing with hanging cord. Seal with IP67 grommet.
SHR-3: 209970800004 Stainless steel sensor. for use in harsh and industrial environments.

D03VV-F 3x0.75/3.2: 209970500106 Cable for probes SHR-1 and SHR-2, 3x 0.75 mm2 with a certification for drinking water.

D05V-K 0.75/3.2: 6594 Wire for probes SHR-1 and SHR-2, 1x 0.75 mm2 with a certification for drinking water.

THERMOSTATS - on DIN rail

single-level thermostats

double thermostat

thermostat for monitoring temperature of motor winding

digital thermostat with time switch clocks

Technical parameters	TER-3A	TER-3B	TER3-C	TER-3D	TER-3E	TER-3H	TER-3F	TER-3G	TER-4	TER-7	TER-9
Monitored ranges	-30 to 10°C	0 to 40°C	30 to 70°C	0 to 60°C	0 to 60°C	-15 to 45°C	0 to 60°C	0 to 60°C	optional: -40 to 110°C	1.8 - 3.3 kΩ	-40 to 110°C
Thermosensor type	external, TC/TZ						built-in	Pt100	external, NTC	external, PTC	external, TC/TZ
Output	1x NO, 16 A								2x CO, 16 A	2x CO, 8 A	2x CO, 8 A
Housing	1-MODULE								3-MODULE	1-MODULE	2-MODULE
Supply voltage (frequency)	AC/DC 24-240 V (AC 50/60 Hz)								AC/DC 24 V, AC 230 V (AC 50/60 Hz)	AC/DC 24 V-240 V (AC 50/60 Hz)	AC/DC 24 V, AC 230 V (AC 50/60 Hz)
Dimensions	90 x 17.6 x 64 mm (3.5˝ x 0.7˝ x 2.5˝)								90 x 52 x 65 mm (3.5˝ x 2˝ x 2.6˝)	90 x 17.6 x 64 mm (3.5˝ x 0.7˝ x 2.5˝)	90 x 35 x 64 mm (3.5 x 1.4 x 2.5˝)

Temperature sensors TC/TZ

more on page 23

TER-3A 3839
TER-3B 3840
TER-3C 3841
TER-3D: 3842
TER-3E: 3843
TER-3F: 3844
TER-3G: 3845
TER-3H: 3846

Simple thermostat for monitoring and regulating the temperature in 8 ranges from -30 to + 70 ° C. Possibility of setting the "heating" / "cooling" function. Choice of external temperature sensors TC/TZ with double insulation in standard lengths of 3, 6 and 12 m.
TER-3F: the sensor is part of the device.

TER-4/230V: 5539
TER-4/24V: 4749
Double thermostat for monitoring and regulating the temperature. 2 inputs for NTC sensor. Galvanically isolated power supply.

TER-7: 3716
It monitors motor winding temperature. PTC sensor in-built in motor winding is used as a sensing element.

TER-9/230V: 4698
TER-9/24V: 4699
Digital thermostat with 6 functions and in-built time switch.

THERMOSTATS - with IP65 protection

two-level thermostat in IP65 protection

one-level thermostat in IP65 protection

one-level thermostat in IP65 protection

one-level thermostat for outdoor use with IP65 protection

Technical parameters	TEV-1	TEV-2	TEV-3	TEV-4
Monitored range	-20 to +20°C	-20 to +20°C	+5 to +35°C	-30 to +60 °C
Thermosensor type	external TC/TZ			built-in
Output	1x CO, 16 A			1x NO, 12 A
Housing	enclosure IP65			IP65
Supply voltage (frequency)	AC 230 V (50/60 Hz)			AC 230 V (50/60 Hz)
Dimensions	110 x 135 x 66 mm (4.33 ˝x 5.3 ˝x 6.6 ˝)			153 x 62 x 34 mm (6˝ x 2.4˝ x 1˝)
Order code	2912	2925	2926	4057

THERMOSTATS, HYGROSTATS

programmable multifunction chronothermostat

multifunction thermostat

hygrothermostat optional functions

hygrostat

Technical parameters	21235	21236	RHT-1	RHV-1
Monitored temperature range	-9 to +35°C	-9 to +35°C	0 to +60°C	-
Monitored humidity range	-	-	50 to 90°C	0 to 90 %
Output	1x CO, 16 A	1x CO, 16 A	1x NO, 16 A	1x NO, 12 A
Housing	LOGUS^{90}	LOGUS^{90}	1-MODULE	IP65
Supply voltage (frequency)	AC 100-240 V (50/60 Hz)	AC 100-240 V (AC 50/60 Hz)	AC/DC 24-240 V (AC 50/60 Hz)	AC 230 V (50/60 Hz)
Dimensions	KU68 box	KU68 box	90 x 17.6 x 64 mm (3.5˝ x 0.7˝ x 2.5˝)	153 x 62 x 34 mm (6˝ x 2.4˝ x 1.3˝)
Order code	21235	21236	5045	4058

Allows you to manually or automatically control heating or air conditioning in relation to the daily or weekly program and the set temperature.

Controls heating or air-conditioning systems depending on the selected temperature. It is possible to connect a floor temperature sensor to automatically detect and connect to it.

Hygro-thermostat for temperature monitoring and control - range 0 to +60 °C and relative humidity - range 50..90 %. Sensor is part of device - designated for measuring in switchboard.

A basic hygrostat to monitor and control the relative humidity 0-90 %. Outdoor version IP65, box for wall mounting, removable lid without screws.

Thermo-valves

energy saving digital radiator thermo-valve

thermo-drive

Temperature sensors

for range 0 to 70°C PVC insulation

for range -40 to +125°C silicone insulation

for range -30 to +200°C double isolation

ATV-1

ATV-1: 6088

This energy-saving digital radiator thermo-valve is a programmable regulation device for various heaters, but mainly radiators. Intervals of heating and energy-saving operation can be set using a freely adjustable time program.

8 individually programmable switching times per day:
- 4 heating intervals
- 4 energy-saving intervals.

The device features very quiet operation and long battery life (up 5 years). Quick and easy installation.

TELVA-2

TELVA-2 230V, NO: 8196
TELVA-2 230V, NC: 8197
TELVA-2 24V, NO: 8198
TELVA-2 24V, NC.: 8199

Thermodriver Telva-2 is a suitable control unit for a wide range of thermostatic valves. Visual indicator of valve position.
Design:
NO - without voltage open
NC - without voltage closed

TC

NTC thermistor 12 kΩ.
4 cable lenghts: 10 cm, 3 m, 6 m and 12 m.

TC-0: 209970800010
TC-3: 209970800011
TC-6: 209970800012
TC-12: 209970800013

TZ

NTC thermistor 12 kΩ.
4 cable lenghts: 11 cm, 3 m, 6 m and 12 m.

TZ-0: 209970800014
TZ-3: 209970800015
TZ-6: 209970800016
TZ-12: 209970800017

Pt100

PTC sensor.
3 cable lenghts: 3 m, 6 m and 12 m.

PT100-3: 3613
PT100-6: 3614
PT100-12: 3615

MONITORING RELAYS - special

optical signalization
of 3-phase network

for power factor monitoring
in two levels

for frequency monitoring
in two levels

Technical parameters	MPS-1	COS-2	HRF-10
Circuit monitoring	3-phase	3/1-phase	1-phase
Adjustable range	fixed levels, indicated by coloured LED: yellow: 50-207 V, green: 207-265 V, red: 265-276 V	COS φ 0.1-0.99	40-60 Hz, 48-72 Hz, 320-480 Hz
Output	-	2x CO, 16 A	2x CO, 8 A
Housing	1-MODULE	3-MODULE	
Power supply	AC 3x400/230 V (50/60 Hz)	AC/DC 24 V, AC 230 V, AC 400 V (50/60 Hz)	AC 161-500 V (50/60/400 Hz)
Dimensions	90 x 17.6 x 64 mm (3.5˝ x 0.7˝ x 2.5˝)	90 x 52 x 65 mm (3.5˝ x 2˝ x 2.6˝)	

MPS-1: 4597

Used for optical signaling of the voltage level in 3-phases. 4-wire connection - L1, L2, L3, N. Monitors phase voltages against neutral wire. LED indicator - for every phase 1 LED.

COS-2/24V: 5544
COS-2/230V: 5543
COS-2/400V: 5236

Relay monitors phase off-set between current and voltage in 3-phase or also 1-phase networks - it evaluates cos-φ.
The relay is predestined for motor overloading / relief monitoring.

HRF-10: 5011

The relay is designed for monitoring the frequency of AC voltage, eg in photovoltaic power plants and generators.

WIRELESS ELECTRO-INSTALLATION iNELS RF

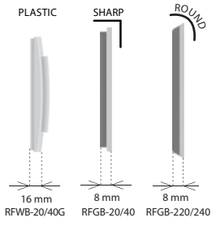
CONTROLLERS - a wall switch design

Wireless wall controllers 2 buttons | 4 buttons

Glass touch controllers 2 or 4 buttons (SHARP edges)

Glass touch controllers 2 or 4 buttons (ROUND edges)

Technical parameters	RFWB-20/G	RFWB-40/G	RFGB-20	RFGB-40	RFGB-220	RFGB-240
Number of channels	2	4	2	4	2	4
Power supply	3 V battery CR 2032		2x 3 V batteries CR 2032		2x 3 V batteries CR 2032	
Design	LOGUS^{90}		glass - sharp		glass - round	
Colour	in LOGUS^{90} variations		W - white, B - black		W - white, B - black	
Dimensions	85 x 85 x 16 mm		94 x 94 x 8 mm		100 x 100 x 8 mm	
Protocol	RFIO2		RFIO2		RFIO2	
Order code	8136	8098	**20/B:** 7679 **20/W:**7678	**40/B:**7681 **40/W:** 7680	**220/B:** 7684 **220/W:** 7683	**240/B:** 7686 **240/W:** 7685



Wireless controller in LOGUS^{90} design.
Standard BASE design (white plastic), but can be combined with glass, wood, metal or stone in the frame design.

RFWB enables communication (RFIO2) and can thus communicate with the CU3-02M.

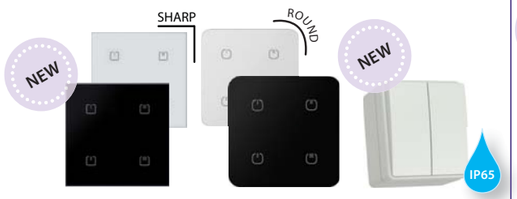
RFGB-20/B: 2-buttons, black glass
RFGB-40/B: 4-buttons, black glass
RFGB-20/W: 2-buttons, white glass
RFGB-40/W: 4-buttons, white glass

Glass touch controllers with 2 or 4 buttons, in black or white glass with sharp edges.

RFGB-220/B: 2-buttons, black glass
RFGB-240/B: 4-buttons, black glass
RFGB-220/W: 2-buttons, white glass
RFGB-240/W: 4-buttons, white glass

Glass touch controllers with 2 or 4 buttons, in black or white glass with round edges.

CONTROLLERS - with dimmer - outdoor - keychains



Glass controller with dimmer SHARP edges | ROUND edges

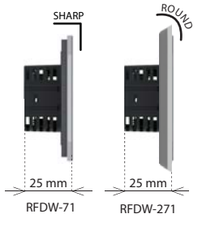
Outdoor 2-buttons controller

Key fob - 4 buttons black | white

Key fob - 6 buttons black | white

Controller with display anthracit | white

Technical parameters	RFDW-71	RFDW-271	RFOWB-20	RF KEY-40		RF KEY-60		RF PILOT	
Number of channels	4		2	4		6		40	
Power supply	AC 230 V or 120 V AC		3 V battery CR 2032	3 V battery CR 2032				2x batteries 1.5 V AAA/R03	
Design	glass sharp	glass round	IP65	key fob				remote controller	
Colour	W - white, B - black		white	B - black	W - white	B - black	W - white	A - anthracit	W - white
Dimensions	94 x 94 x 36 mm	100 x 100 x 36 mm	64 x 74 x 44 mm	64 x 25 x 10 mm				130 x 41 x 18 mm	
Protocol	RFIO2		RFIO2	RFIO2				RFIO	
Order code	**71/B:** 4178 **71/W:** 5983	**271/B:** 8042 **271/W:** 7695	8147	8075	8074	8077	8076	4516	4376



Glass controller with integrated dimmer R - L - C - ESL - LED for loads up to to 160 VA (for 230 V). 4 buttons can control the dimmer or other iNELS RF wireless units. Flush mounted in the installation box.

Wireless pushbutton controller with IP65 protection designed for outdoor and humid environments.

Controller in the size of a keychain comes in black and white colour. 4 or 6 buttons allows you to control an unlimited number of units.

Remote controller with OLED display allows to control up to 40 units. Provides the ability to divide elements into Rooms, Favourites or Scenes.

SWITCHES - flush mounted

Single function 1-channel | Multifunction 1-channel | Lighting control unit with detectors | Multifunction 2-channels | With external button inputs, 2-channels

Technical parameters	RFSA-11B	RFSA-61B	RFSAI-161B		RFSA-62B	RFSAI-62B
Output	1x NO, 16 A		1x NO, 12 A		2x NO, 8 A	
Supply voltage (frequency)	AC/DC 12-24 V (50/60 Hz), AC 120 V (60Hz) or AC 230 V (50/60 Hz)		AC 230 V (50/60 Hz)	AC 120 V (60 Hz)	AC/DC 12-24 V (50/60 Hz), AC 120 V (60Hz) or AC 230 V (50/60 Hz)	
Design	BOX					
Dimensions	49 x 49 x 21 mm					
Protocol	RFIO2					
Order code	**24V:** 5139 **120V:** 4302 **230V:** 5000	**24V:** 5146 **120V:** 5740 **230V:** 4995	4934	3404	**24V:** 5189 **120V:** 5182 **230V:** 4996	**120V:** 7494 **230V:** 4999

BOX flush mounted

- switch on/off
- 1 output

- 6 functions
- 1 output

As RFSA-161B, but with a pre-set algorithm for lighting control (e.g. hotel room) based on upstream wireless detectors. Input for connecting a wire button. Part of the HRESK system.

- 6 functions
- 2 outputs

- 6 time functions
- 2 outputs 3 A
- 2 inputs for wired buttons

SWITCHES - shutters - on DIN rail

Switch unit for shutters

Multifunction 1-channel | Multifunction 6-channels | Fancoil controller 6-channels

Technical parameters	RFJA-32B			RFSA-61MI RFSA-61M	RFSA-66MI RFSA-66M	RFSA-166M
Output	2x NO, 8 A		contactless	1x CO, 16 A	3x CO / 3x NO, 8 A	3x CO / 3x NO, 8 A
Supply voltage (frequency)	230 V AC (50/60 Hz)	120 V AC (60 Hz)	5-24 V DC	110-230 V AC (50/60 Hz)	AC 110-230 V (50/60 Hz), or AC/DC 12-24 V SELV	AC 110-230 V (50/60 Hz)
Design	BOX			1-MODULE	3-MODULE	3-MODULE
Dimensions	49 x 49 x 21 mm		49 x 49 x13 mm	90 x 17.6 x 64 mm	90 x 52 x 65 mm	90 x 52 x 65 mm
Protocol	RFIO2			RFIO2	RFIO2	RFIO2

MODULE on DIN rail

RFJA-32B/24V: 5768
RFJA-32B/120V: 7492
RFJA-32B/230V: 7466

2 independent outputs for control of two-way motors: garage doors, gates, blinds, shutters, ...
Inputs for connecting external control wired buttons.

RFSA-61MI: 8154
RFSA-61M: 5234

MI - integrated antenna
M - SMA connector for external antenna.
AN-I antenna is part of the unit.

RFSA-66MI/24V: 8156
RFSA-66MI/110-230V: 8155

RFSA-66M/24V: 5291
RFSA-66M/110-230V: 7723

MI - integrated antenna
M - SMA connector for external antenna.
AN-I antenna is part of the package.

RFSA-166M/230V: 3432

Fancoil control:
- heating / cooling mode
- 3 speed levels

The last channel can be switched by any appliance (e.g. lights).
It is controlled by the RFTC-150/G thermostat.
It can have detectors in front (window / door openers (RFWD-100).

DIMMERS - flush mounted - on DIN rail

Analog controller 0(1) - 10V

Universal dimmer 1x 160 VA

Universal dimmer 1x 600 VA

Dimmer for LED (RGB strips) 3-channels

Universal dimmer 6x 150 VA

Technical parameters	RFDAC-71B	RFDEL-71B		RFDEL-71M		RFDA-73M/RGB	RFDEL-76M	
Output	0(1) - 10 V contact 1 VA	R - L - C - LED - ESL 160 VA	80 VA	R - L - C - LED - ESL 600 VA	300 VA	3x 5 A	R - L - C - LED - ESL 6x 150 VA	6x 75 VA
Supply voltage (frequency)	AC 110-230 V (50/60 Hz)	AC 230 V (50 Hz)	AC 120 V (60 Hz)	AC 230 V (50 Hz)	AC 120 V (60 Hz)	DC 12-24 V stabilized	AC 230 V (50 Hz)	AC 120 V (60 Hz)
Design	BOX			3-MODULE			6-MODULE	
Dimensions	49 x 49 x 21 mm			90 x 52 x 65 mm			90 x 105 x 65 mm	
Protocol	RFIO2			RFIO2			RFIO2	
Order code	4993	4994	5222	4897	5304	4916	8205	8209
	Used to control devices with analog control voltage 0 (1) -10V. Included is a relay contact to turn off the ballast light.	The light source is selected by a switch on the front panel, potentiometer for minimum brightness, input for wired button.		As version "RFDEL-71B", but DIN rail designed inputs for external control by potentiometer or analog voltage 0 (1) - 10 V.		The dimmer for LED strips is used for independent control of 3 single-colour LED strips or one RGB LED strip.	Universal six-channels dimmer with an output of 150 VA / 75 VA channel. The outputs can be connected in parallel and multiply the power at the expense of the number of outputs (up to 900 VA / 230 V) when connecting all 6 outputs together.	

SOCKETS - dimming - switching

Dimming socket-plug

Switching socket-plug

Switching socket with increased protection

Switching unit for outdoor use

Technical parameters	RFDSC-71	RFSC-61	RFOSC-61	RFUS-61
Type of load	R - L - C - LED - ESL max. 300 W/150 W	1x NO, 16 A/AC	1x NO, 16 A/AC	1x CO, 12 A/AC1
Supply voltage (frequency)	AC 230 V (50/60 Hz) or AC 120 V (60 Hz)	AC 230-250 V or AC 120 V (50/60 Hz)	AC 230-250 V or AC 120 V (50/60 Hz)	AC 230-250 V or AC 120 V (50/60 Hz)
Design	socket-plug	socket-plug	socket IP65	IP65
Dimensions	60 x 120 x 80 mm	60 x 120 x 80 mm	64 x 74 x 53 mm	136 x 62 x 34 mm
Protocol	RFIO	RFIO	RFIO2	RFIO2
	French: 4594 **Schuko:** 4595 **British:** 4546	**French:** 4560 **Schuko:** 4562 **British:** 4544	**RFOSC-61:** 8062 Switching socket in IP65 design is intended for installation in an outdoor environment.	**RFUS-61/120V:** 5256 **RFUS-61/230V:** 5853 Switching component with 1 output channel in a box with increased coverage for outdoor environments.

DETECTORS

Flood

Twilight

Magnetic (Window/door)

Motion

Technical parameters	RFSF-100	RFSOU-1	RFWD-100	RFMD-100
Battery power	2x batteries 1.5 V AAA	2x batteries 1.5 V AAA	1x 3 V battery CR 2032	2x batteries 1.5 V AAA
Design	disc box	IP65	interior	interior
Dimensions	Ø 89 x 23 mm	72 x 62 x 34 mm	25 x 75 x 16 mm / 15 x 75 x 14 mm	72 x 62 x 34 mm
Protocol	RFIO2	RFIO	RFIO2	RFIO2
Order code	7682	4707	5027	5029
	The flood detector is used to detect water leaks - activation occurs when the contacts located on the bottom of the detector are flooded.	**2 functions in 1 unit:** **Twilight switch** for range 1-1.000 lx or **Light switch** for the range 100-100,000 lx Setting the values of the potentiometers inside. Enclosure with increased IP65 protection for demanding environments.	Main device (wider part) and Magnet (narrower part) glued to the moving parts (door, window, gate ...). Activation occurs when the detector is moved away from the magnet.	The motion detector PIR is used to detect persons moving inside the building interior. Detection angle 105° Detection distance max: 12 m Working height: 2.4 m Integrated light sensor and tamper against unwanted opening of the cover.

LEVEL SWITCHES

Level switch

Liquid probe

DRY CONTACTS CONVERTERS

2 contacts converter - permanent switching

4 contacts converter - button switching

1 contact converter - permanent switching

Technical parameters	RFSF-1B	FP-1	RFIM-20B	RFIM-40B	RFSG-1M
Battery power	1x 3 V battery CR 2477		1x 3 V battery CR2477	2x 3 V batteries CR2032	AC 10-230 V (50/60 Hz)
Design	BOX		BOX		1-MODULE
Dimensions	49 x 49 x 13 mm		49 x 49 x 13 mm		90 x 17.6 x 64 mm
Protocol	RFIO		RFIO	RFIO2	RFIO2
Order code	4860	6563	4175	8134	4284
	Conductivity probes (recommended FP-1) can be connected to the INPUT terminals to monitor flooding or the level in the tank. When activated, it sends a command to the actuator or eLAN.	External probe designed for Level sensor RFSF-1B for flood monitoring. 1 m cable can be extended by 30 m.	Converts 2 potential-free inputs that can be permanently closed (switch, relay contact) to RF signal.	Converts 4 potential-free inputs that can be permanently closed (switch, relay contact) to RF signal. Thanks to bidirectional communication should work with CU3-02M or eLAN-RF-103.	This wireless contact converter is especially appropriate for wireless transmission of information on switching HDO. Thanks to the network supply, it can also be used for partial transmission of information for control of an appliance or device. Bidirectional communication RFIO2.

TEMPERATURE CONTROL - thermostats

Simple temperature controller

Autonomous temperature controller

Thermostat for fancoil control via RFSA-166M

Covers:

AL - aluminium

GE - ice

IS - gray

MF - ivory

PE - pearl

Technical parameters	RFTC-10/G	RFTC-50/G	RFTC-150/G
Battery power	2 x 1.5 V battery AAA		
Design	LOGUS^{90}		
Dimensions	85 x 85 x 16 mm / 94 x 94 x 16 mm		
Protocol	RFIO		
Order code	RFTC-10/G/BR/BR	RFTC-50/G/BR	RFTC-150/G/BR

RFTC-10/G: design BASE, white cover, white frame, **order code:** RFTC-10/G/BR/BR"
- used for temperature measurement (in the range of 0 to 55 ° C) and correction of the pre-set temperature in RF Touch or eLAN-RF system devices in the range of ± 5 ° C.

RFTC-50/G: design BASE, white cover, white frame, **order code:** RFTC-50/G/BR
- is a separate thermostat that allows wireless control of up to 4 switching elements, eg. RFSA-6x / RFUS-61 / RFSTI-11B.

RFTC-150/G: design BASE, white cover, white frame, **order code:** RFTC-150/G/BR
- thermostat for controlling the RFSA-166M switching component for fan coil control.

Thermostat **covers** are available in: Pearl (PE), Ivory (MF), Gray (IS), Ice (GE) and Aluminium MF(AL) colour. It is thus possible to combine them with all LOGUS^{90} frames.

Compatibility control

	RFTC-10/G	RFTC-50/G	RFTC-150/G
RF Touch	✓	×	×
eLAN-RF	✓	×	×
RFSA-6x	✓	✓	×
RFSTI-11B	×	✓	×
RFSA-166M	×	×	✓

TEMPERATURE CONTROL - sensors and actuators

Switching unit with temperature sensor

Temperature sensor

Overheating/overcooling switch unit with advanced functions

Thermo-drive

Technical parameters	RFSTI-11B	RFTI-10B	RFSTI-111B		TELVA-2	
Supply voltage (frequency)	AC 230 V, AC 120 V, AC/DC 12-24V (AC 50/60 Hz)	1x 3 V battery CR 2477	AC 230 V (50/60 Hz)	AC 120 V (60 Hz)	AC 24 V	AC 230 V (50/60 Hz)
Design	BOX	BOX			valve thread	
Dimensions	49 x 49 x 21mm	49 x 49 x 13 mm	49 x 49 x 21 mm		63 x 42 x 45 mm	
Protocol	RFIO2	RFIO	RFIO2		wired	
Order code	**24V:** 5241 **120V:** 5239 **230V:** 5235	3175	4915	3409	**24V/NO:** 8199 **24V/NC:** 8198	**230V/NO:** 8196 **230V/NC:** 8197

Temperature sensors TC/TZ
more on page 23

Switching component (16 A relay contact) with input for external temperature thermosensors TC / TZ.
It can be combined with units: eLAN-RF, RF Touch and RFTC-50/G.

The internal or external TC / TZ sensor measures the temperature in the range -20 to + 50 °C and sends it to the system device (eLAN-RF or RF-Touch) at regular intervals (5 min).

Most suitable for hotel rooms. The components support communication with RF detectors. Range 160 m.

The thermal actuator is designed to open or close valves in heating, cooling or air conditioning systems. It is maintenance free and works completely silently.

Options:
- open without voltage (NO)
- closed without voltage (NC).

SYSTEM UNITS

Wireless touch unit on the wall

Wireless touch unit flush mounted

Smart RF Gateway with LAN

Smart RF Gateway with WiFi & LAN

Repeater (socket-plug)

Technical parameters	RF TOUCH/W	RF TOUCH/B	eLAN-RF-103	eLAN-RF-Wi-103	RFRP-20
Number of connectable components*	40	40	70	70	20
Supply voltage (frequency)	AC 100–230 V (50-60 Hz) or 12 V DC adapter	AC 100–230 V (50-60 Hz)	adapter 5V DC / 1A		AC 230-250 V (50-60 Hz) or 120 V (60 Hz)
Design	on the wall	flush mounted	aluminum box		socket-plug
Dimensions	94 x 94 x 24 mm	94 x 94 x 36 mm	90 x 52 x 65 mm		60 x 120 x 80 mm
Protocol	RFIO2		RFIO2		RFIO
Order code	available at the price list		8044	8084	**French:** 4510 **Schuko:** 4547 **British:** 4548

* allow to control the units independently

A wireless control unit with a 3.5 "touch screen (as well as applications for telephones) which is the superior, but not mandatory controller for wireless components and detectors of the iNELS RF system.
It includes simple automation functions, such as temperature and time programs, control of RGB strips and light bulbs, quick control and more.

The RF Smart box is a gateway between iNELS RF components and applications: smartphone, tablet, watch, television, voice assistants (Google Home & Alexa) and other third party devices. Allows remote control: direct or via Cloud. It is available in two versions:
a) eLAN-RF-103: LAN communication
b) eLAN-RF-Wi-103: LAN communication with WiFi in AP mode or in Client mode.

The signal repeater is used to increase the range between the controller and the component by up to 200 meters. It is designed for signal transmission to up to 20 components.

Colour options

black/white

chrome/gray

white/ice

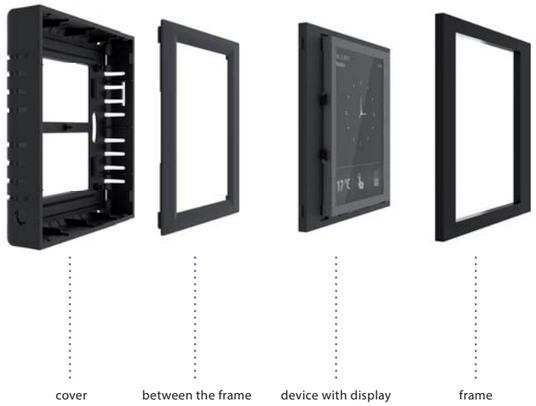
glass/gray

red/aluminium

aluminium/gray

titan/ice

Exploded view



Accessories

Service Key

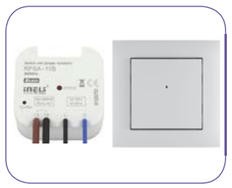
Internal antenna with SMA connector

External antenna with magnetic base

External antenna with magnetic base and IP67 protection

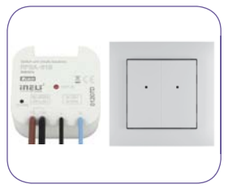
RFAF/USB	AN-I	AN-E	AN-E3	Extension cable
RFSAF/USB: 4503 The RFAF / USB Service Key (in conjunction with the RF_analyzer) is designed for iNELS RF Control system partners.	**AN-I:** 6186 Polarization: vertical Gain: 2.1 dBi Dimensions: 17 x 44 x 8,5 mm Impedance: 50 Ω Colour: black	**AN-E:** 6056 Cable length: 3 m Polarization: vertical Gain: 5 dBi Impedance: 50 Ω Colour: black Dimensions: Ø 30 x 280 mm	**AN-E3:** 8219 Cable length: 3 m Polarization: vertical Gain: 3 dBi Impedance: 50 Ω Colour: black Dimensions: Ø 50 x 88 mm	**EC-10:** 8191 SMA connectors (male/female) Cable length: 10 m Colour: white

RF SETS Combination of controllers and units



RFSA-11B RFWB-20/G

RFSA-11B RF Key/B



RFSA-61B RFWB-40/G

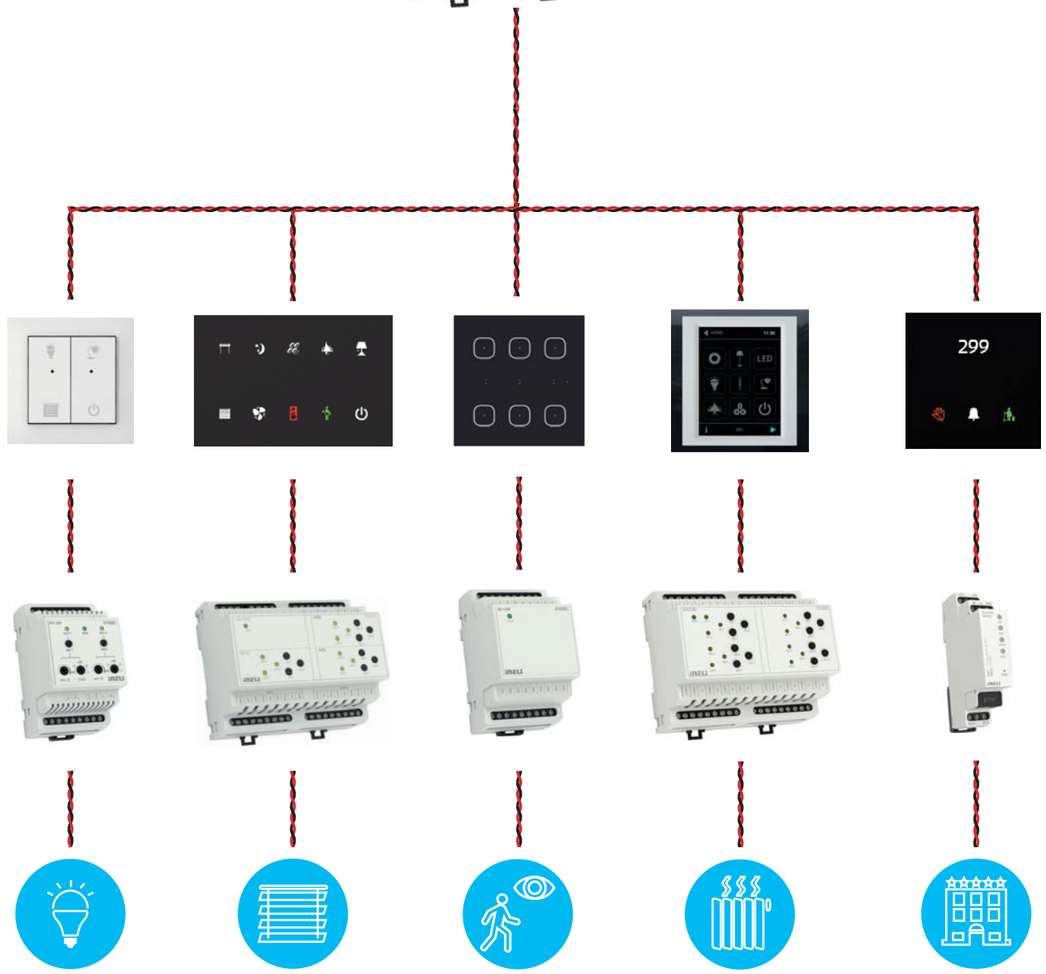
RFSA-61B RF Key/B

RFSA-61M (A-NI) RF Key/B

RFSET-SW2-Z1	RFSET-SK-Z1	RFSET-SW-F1	RFSET-SK-F1	RFSET-SMK-F1
RFSET-SW2-Z1: 4155 EN/CZ	**RFSET-SK-Z1:** 4156 EN/CZ	**RFSET-SW-F1:** 4165	**RFSET-SK-F1:** 4166	**RFSET-SMK-F1:** 4180
Basic sets, indicated as RFSET-xxxx-Z1, are designed to satisfy the most common user requirements. Basic RF sets are combined with receivers: RFSA-11B.		Multifunction sets, under the designation RFSET-xxxx-F1, provide the user with comfort in the form of rich options in functions and selection of from up to seven preset programs of actuators. Multifunctional sets are combined with the receivers: RFSA-61B, RFSA- 61M.		

WIRED ELECTRO-INSTALLATIONS iNELS BUS

iNELS® BUS System



CENTRAL UNITS

Central units are the brain of the iNELS BUS system, a "mediator" between user's programming environment and controllers, units and actuators connected to the BUS.

CU3-01M	CU3-02M	CU3-05M	CU3-06M	CU3-07M
Order code CU3-01M: 3222 **Order code CU3-02M:** 3239		**Order code CU3-05M:** 8118 **Order code CU3-06M:** 7611		**Order code:** 8010
• CU3-01M and CU3-02M are central units of the iNELS system and mediators, between user software interface and controllers, units and actuators connected to the BUS. • It's possible to directly connect up to 2 lines of BUSes in to CU3-01M and CU3-02M, and on each BUS we can connect up to 32 iNELS3 units. • The main difference between CU3-02M and CU3-01M is that CU3-02M is moreover equipped by RF module which enables communication with selected units from iNELS RF Control system. • User´s project and retentive data are stored in a non-volatile internal memory hereby data are backed up without the supply voltage. Real time clock (RTC) backup for 10 days. • Power supply controlling system - network voltage and the status of the backup battery. • Possibility of setting time synchronization via NTP server. • The RJ45 Ethernet port's connector is located on the front panel of the unit, the transmission speed is 100 Mbps. • For CU3-01M (02M) it is possible to use 4 potential-free inputs for connecting external controllers (buttons, switches, sensors, detectors, etc.) and 2 analog inputs 0 - 30 V. • CU3-01M (02M) comes with OLED display that shows the current status and enables settings (network settings, date, time, service) of the central unit CU3-01M (02M). • Movement in the menu CU3-01M (02M) using arrows on the front panel. • CU3-01M (02M) in 6-MODULE are designed for mounting into a switchboard on the EN60715 DIN rail.		• CU3-05M and CU3-06M are new and more powerful central units of the iNELS system. They are an intermediary between the user program, controllers, units and actuators. With new, faster processors, you can handle even the most complex tasks literally instantly. • Up to two BUS lines can be connected directly to the CU3-05M and CU3-06M. Each BUS line can take up to 32 iNELS3 units. • Additional units can be connected to the system via expansion unit MI3-02M, which is connected to the CU3 via the EBM system bus. • CU3-06M is additionally equipped with an RF module enabling communication with selected units from iNELS RF Control system. This is how you can extend your existing installation without cutting into the wall. • Possibility to set time synchronization via NTP server. • The RJ45 Ethernet port connector is located on the bottom of the unit, the transfer rate is 100 Mbps.		• MiniCU CU3-07M is a small central unit for managing small projects such as a hotel room, small apartment or cottage. • Configuration is performed by software iNELS Designer and manager - iDM3. • The unit can work as a stand-alone master for installation or as a slave for the superior CU3-0xM. • You can connect up to 32 iNELS3 units on the CU3-07M. • iNELS BUS units can be connected.

SYSTEM UNITS

Power supply 30 W with BUS separator | **Power supply 100 W** | **External master BUS** | **BUS separator from power supply** | **GSM communicator**

Technical parameters	PS3-30/iNELS	PS3-100/iNELS	MI3-02M	MI3-02M/ETH	BPS3-01M	BPS3-02M	GSM3-01M
Output	27 V / 1A	27.6 V / 3.6 A, 12.2 V / 0.35 A	2x BUS iNELS3	2x BUS iNELS3	1x BUS	2x BUS	-
Supply voltage (frequency)	100-250 V AC (50/60 Hz)	100-250 V AC (50/60 Hz)	BUS 27 V DC		BUS 27 V DC		BUS 27 V DC
Rated current	-	-	25 mA (at 27 V DC)	75mA (at 27 V DC)	8 mA (at 27 V DC)	15 mA (at 27 V DC)	250 mA (at 27 V DC)/max.1A
Dimensions	90 x 52 x 65 mm	90 x 105 x 65 mm	90 x 17.6 x 64 mm		90 x 17.6 x 64 mm		90 x 52 x 65 mm
Order code	8011	4889	3241	3489	3244	3243	3242
	PS3-30/iNELS: power 30 W, integrated bus separator BPS3-01M. **PS3-100/iNELS:** power 100 W, inputs for connecting backup batteries 2x12 V and the possibility of recharging them with adjustable current.		**MI3-02M:** expands the system by 2 bus, i.e. by 2x 32 units, connection to CU3 via EBM bus. **MI3-02M/ETH:** expands the system by 2 bus, i.e. by 2x32 units, connection to CU3 via ethernet.		This separator serve for impedance separation of BUS from supply voltage power. **BPS3-01M:** allows you to connect one BUS with max. load 3 A. **BPS3-02M:** allows you to connect two separate BUS1 and BUS2 with max. load 1 A for each line.		It serves for communication with the iNELS system via commands sent in short SMS messages from mobile phone GSM. Communicator connects to the central unit CU3 via the EBM system BUS.

SWITCHING ACTUATORS

Switching actuator 1-channel | **Switching actuator 2-channels** | **Switching actuator 4-channels** | **Switching actuator 6-channels** | **Switching actuator 12-channels**

Technical parameters	SA3-01B	SA3-02B	SA3-04M	SA3-06M	SA3-012M	
Number of contacts	1x NO, 16 A	2x CO, 8 A	4x CO, 16 A	6x CO, 8 A	12x NO, 8 A	
Switching current	16 A / AC1	8 A / AC1	16 A / AC1	8 A / AC1	8 A / AC1	
Switching output	4000 VA	2000 VA	4000 VA / AC1, 384 W/DC	2000 VA / AC1, 192 W/DC	2000 VA	
Supply voltage (frequency)	BUS 27 V DC	BUS 27 V DC	BUS 27 V DC	BUS 27 V DC	230 V AC (50/60 Hz)	120 V AC (60 Hz)
Rated current from BUS	30 mA (at 27 V DC)	50 mA (at 27 V DC)	70 mA (at 27 V DC)	60 mA (at 27 V DC)	5 mA (at 27 V DC)	
Housing	BOX		3-MODULE		6-MODULE	
Dimensions	49 x 49 x 21 mm		90 x 52 x 65 mm		90 x 105 x 65 mm	
Order code	3235	3236	3238	3287	3246	3302
	1-channel/2-channel switching actuator for switching appliances, e.g. lighting, thermo drives and sockets. 1x temperature input TC / TZ.		4-channel switching actuator for switching appliances and controlling blinds, 4x changeover contact 16 A, LED signalling of relay status, manual control.	6-channel switching actuator for switching appliances, lighting and thermo drives, 6x changeover contact 8 A, LED signalling of relay status, manual control.	12-channel switching actuator for switching appliances, lighting and thermo drives, 12x switching contact 8 A, LED signalling of relay status, manual control.	

SWITCHING ACTUATORS

SHUTTER ACTUATORS

Switching actuator, 22-channels
with control and indication components | **without control and indication components**

Shutter actuator 2-channels | **Shutter actuator for 9 motors**

Technical parameters	SA3-022M	EA3-022M	JA3-02B/DC	JA3-018M
Number of contacts	20x NO + 1x CO with blocking (for shutters)		DC 1x 12-24 V	9x CO with blocking
Switching current	according to the output (6 A/10 A)		0.85 A	4 A/AC15
Switching output	according to the output		-	1000 VA
Supply voltage (frequency)	BUS 27 V DC		BUS 27 V DC	100-250 V AC (50/60 Hz)
Rated current from BUS	100 mA (at 27 V DC)		60 mA (at 27 V DC)	5 mA (at 27 V DC)
Housing	6-MODULE		BOX	6-MODULE
Dimensions	90 x 105 x 65 mm		49 x 49 x 13 mm	90 x 105 x 65 mm
Order code	3526	3523	3271	7446
	Actuator for controlling light circuits, appliances, thermo drives and 1 shutter (2 relays with blocking). Unit is equipped with 20x switching outputs and 1x changeover contact for controlling blinds or shutters.		Actuator for controlling blinds, rollers, shutters and other motors powered by 24 V DC. Unit has 2x analog or 2x digital input.	Actuator designed for controlling rollers, shutters, blinds, awnings, garage door on entrance gates. This unit can control up to 9 motors.

DIMMING ACTUATORS

Dimming actuator 2-channels

Dimming actuator 6-channels

Dimming actuator for electronic ballasts 2-channels

Technical parameters	DA3-22M		DA3-66M		LBC3-02M
Output	R - L - C - LED - ESL 400 VA (230 V) / 200 VA (120 V)		R - L - C - LED - ESL 150 VA (230 V) / 75 VA (120 V)		2x 0(1)-10 V 2x CO, 16 A
Input	2x wire buttons, 1x temperature		6x wire buttons		-
Supply voltage (frequency)	230 V AC (50/60 Hz)	120 V AC (60 Hz)	230 V AC (50 Hz)	120 V AC (60 Hz)	BUS 27 V DC
Rated current from BUS	5 mA (at 27 V DC)		100 mA (at 27 V DC)		60 mA (at 27 V DC)
Housing	3-MODULE		6-MODULE		3-MODULE
Dimensions	90 x 52 x 65 mm		90 x 105 x 65 mm		90 x 52 x 65 mm
Order code	3262	3303	8206	7445	3268
	2-channel actuator for dimming ESL, LED and RLC loads, 2x 400 VA, 2x input for wired button, 1x input for temperature sensor TC/TZ.		Output power 150 VA / channel. The outputs can be connected in parallel and multiply the power at the expense of the number of outputs (up to 900 VA when all 6 inputs for wired buttons.		Analog 2-channel actuator for dimming electronic ballasts. This unit has 2x analog output 0(1)-10 V, 2x changeover contacts 16 A, LED signalization of relay status.

LIGHTING CONTROL

Gateway iNELS-DALI/DMX

Combined detector

Luminescence sensor

Technical parameters	EMDC-64M	DMD3-1	DLS3-1
iNELS BUS/EBM	EBM	BUS	BUS
DALI/DMX BUS	64 channels / 64 channels	yes/no	yes/no
Supply voltage	AC 230 V (50/60 Hz), max. 100 mA	BUS 27 V DC	BUS 27 V DC
Rated current from BUS	-	18 mA (at 27 V DC)	12 mA (at 27 V DC)
Housing	3-MODULE	ceiling mounting	IP65 box
Dimensions	90 x 52 x 65 mm	Ø 76 x 73 mm	96 x 62 x 34 mm
Order code	5030	5751	5750
	The converter supplies the DALI BUS - 16 V, 250 mA. The EMDC-64M unit is designed to control electronic DALI ballasts and DMX receivers from the iNELS system. It allows controlling of up to 64 independent electronic DALI ballasts or 64 independent DMX receivers.	The motion detector is used to detect movement in the area using the passive infrared scanning spectrum for detection. Integrated luminescence sensor can be used for sensing current luminescence at the point of installation of the unit. This unit can be installed also on DALI BUS.	DLS3-1 is for sensing the current luminescence in the place of installation the unit. The DLS3-1 is supplied in IP65 protection box and can be installed outdoors. The unit supports DALI BUS.

THERMO INPUTS AND CONVERTERS

Binary input unit 4-channels

Binary input unit 8-channels

Binary input unit 14-channels

Temperature input 4-channels

Temperature input 6-channels

Technical parameters	IM3-40B	IM3-80B	IM3-140M	TI3-40B	TI3-60M
Number of inputs	4x binary	8x binary	14x binary	4x temperature	6x temperature
Temperature sensors	1x TC/TZ		-	TC, TZ, Ni1000, Pt1000, Pt100	TC, TZ, Ni1000, Pt1000, Pt100
Supply voltage	BUS 27 V DC		BUS 27 V DC	BUS 27 V DC	BUS 27 V DC
Rated current from BUS	20 mA (at 27 V DC)		25 mA (at 27 V DC)	20 mA (at 27 V DC)	45mA (at 27 V DC)
Housing	BOX		3-MODULE	BOX	3-MODULE
Dimensions	49 x 49 x 13 mm		90 x 52 x 65 mm	49 x 49 x 13 mm	90 x 52 x 65 mm
Order code	3231	3232	3245	3269	3289
	This unit is designed for connection of 4 or 8 devices with potential-free contacts (PIR, button, etc.), 1x temperature input for TC/TZ sensor, output for powering detectors by 12 V DC/75 mA.		This input module connects up to 14 devices with potential-free contact (PIR, button etc.). 14x binary input, output for powering detectors by 12 V DC/ 150 mA.	Temperature input unit TI3-40B is designed for connecting 4x temperature sensors TC, TZ, Ni1000, PT1000 or PT100.	Temperature input unit TI3-60M is designed for connecting 6x temperature sensors TC, TZ, Ni1000, PT1000 or PT100.

THERMO INPUTS AND CONVERTERS

Combined actuator 10 inputs, 8 outputs

Analog - digital converter 6 inputs

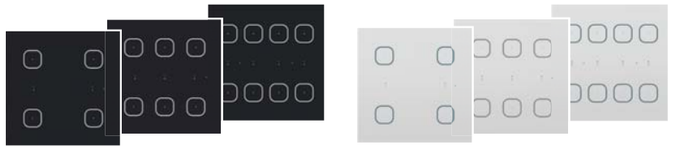
Digital - analog converter 4 inputs

Fan coil control actuator

Technical parameters	IOU3-108M	ADC3-60M	DAC3-04M	FA3-612M
Output	8x switching, 10 A	-	4x 0(1) - 10 V / 10 mA	4x (0)-10V, 4x switching, 4x SSR
Input	1x temperature, 8x digital	1x temperature, 6x analog.; 0-10 V; 0-20 mA	1x temperature	3x analog, 3x digital
Supply voltage	BUS 27 V DC	BUS 27 V DC	BUS 27 V DC	BUS 27 V DC
Rated current from BUS	110 mA (at 27 V DC)	100 mA (at 27 V DC)	50 mA (at 27 V DC)	5 mA (at 27 V DC)
Housing	6-MODULE	3-MODULE	3-MODULE	6-MODULE
Dimensions	90 x 105 x 65 mm	90 x 52 x 65 mm	90 x 52 x 65 mm	90 x 105 x 65 mm
Order code	8188	3301	3256	3257
	Actuator can switch the appliances, light circuits, thermodrives, etc., possibility of connecting wired buttons and temperature sensors. Outputs supports zero-crossing mode.	Analog signal converter is iNELS3 device which converts analog to digital signal (e.g. for weather station connection), 6x analog input, 2x temperature input for TC or TZ sensor.	Converter from a digital signal to an analog voltage signal 0(1)-10 V, for controlling electronic ballasts, thermo drives, etc, 4-channel, 1x temperature input for TC/TZ sensor.	Actuator is designed to control fan coil units using analog/digital inputs and analog/relay outputs. The unit has 3 analog inputs and 3 galvanically separated digital inputs.

WALL UNITS AND CONTROLLERS

Control unit
with touch screen



Glass switch button controllers
(SHARP edges)

Technical parameters	EST3	GSB3-40 4 buttons	GSB3-60 6 buttons	GSB3-80 8 buttons
Number of buttons	2x2 / 2x3 / 3x3 / 3x4	4	6	8
Supply voltage	BUS 27 V DC	BUS 27 V DC		
Rated current from BUS	150 mA (at 27 V DC)	25-40 mA (at 27 V DC)		
Internal temp. sensor	-	yes		
Inputs	-	2x temperature or 2x digital		
Dimensions	94 x 94 x 36 mm	94 x 94 x 36 mm		
Order code	in the pricelist	**40/B:** 3290 **40/W:** 3295	**60/B:** 3291 **60/W:** 3298	**80/B:** 3292 **80/W:** 3299

EST3 is equipped with a 3.5" color touch screen. On the screen you can have 2x2, 2x3, 3x3 or 3x4 buttons for controlling anything. In Logus[90] design.

The glass switch with touch buttons in series GSB3 is a design element (controller) in the system iNELS3 with elegant and comfortable control options.
Controllers are available in black (e.g. GSB3-40/B, 60/B and 80/B) and white (e.g. GSB3-40/W, 60/B and 80/B) variants.

WALL UNITS AND CONTROLLERS

Wall switch button
2 buttons

Wall switch button
4 buttons

Digital room
thermo-regulator

Wall card reader
2 buttons

Glass wall card reader
6 buttons

Technical parameters	WSB3-20, WSB3-20H	WSB3-40, WSB3-40H	IDRT3-1	WMR3-21	GMR3-61
Number of buttons	2	4	2 (for temperature correction)	2	6
Supply voltage	BUS 27 V DC	BUS 27 V DC	BUS 27 V DC	BUS 27 V DC	BUS 27 V DC
Rated current from BUS	25 mA (at 27 V DC)	25 mA (at 27 V DC)	20 mA (at 27 V DC)	50 mA (at 27 V DC)	50 mA (at 27 V DC)
Internal temp. sensor	yes	yes	yes	-	yes
Inputs	2x temperature or 2x digital	2x temperature or 2x digital	2x temperature or 2x digital	-	-
Dimensions plastic	85.6 x 85.6 x 42 mm	85.6 x 85.6 x 42 mm	85.6 x 85.6 x 42 mm	85.6 x 85.6 x 42 mm	94 x 94 x 36 mm
Dimensions other materials	94 x 94 x 36 mm	94 x 94 x 36 mm	94 x 94 x 50 mm	94 x 94 x 36 mm	
Order code - electronics*	**20:** 3234* **20H:** 3247*	**40:** 3233* **40H:** 3304*	**device + cover:** IDRT3-1/BR**	3275*	**61/B:** 5585 **61/W:** 5579

* Covers and frames for the devices must be ordered separately
** Frame must be ordered separately.

Order code of all color combinations are available in the price list.

Wall controllers, 2x button, built-in temperature and humidity sensor (version H), 1x LED indication. In LOGUS[90] design.

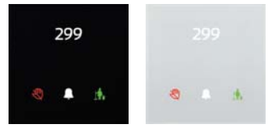
Wall controllers, 4x button, built-in temperature and humidity sensor (version H), 2x LED indication. In LOGUS[90] design.

Control unit for heating/cooling. Temperature correction ±5 °C or direct input of requested temperature. Built-in temperature sensor. In LOGUS[90] design

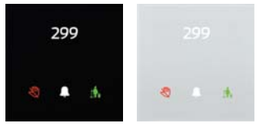
Wall reader with RFID can read chip cards, key fobs and control the entrance. Available in black and white color in Logus[90] design.

Glass wall reader with RFID and buttons can read chip cards, key fobs and control the entrace. Available in black and white color in Logus[90] design.

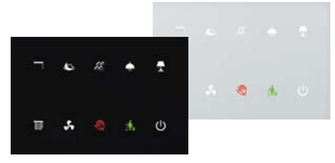
HOSPITALITY SOLUTION - GRMS



Glass card
reader



Glass door
bell



Glass switch panel
10 buttons

Technical parameters	GCR3-11	GDB3-10	GSP3-100
Number of buttons	3	1	10
Supply voltage	BUS 27 V DC	BUS 27 V DC	BUS 27 V DC
Rated current from BUS	100-130 mA (at 27 V DC)	100-130 mA (at 27 V DC)	100-130 mA (at 27 V DC)
Inputs	internal temperature and brigtness sensor	internal temperature sensor, 1x external input for TC/TZ	internal temperature sensor, 1x external input for TC/TZ
Dimensions	94 x 94 x 36 mm	94 x 94 x 36 mm	142 x 94 x 36 mm
Order code	**11/B:** 5747 **11/W:** 5748	**10/B:** 5726 **10/W:** 5727	**100/B:** 5628 **100/W:** 5632

Glass card reader GCR3-11 is designed for reading smart cards, which are intended to enter the hotel room or any other part of the building. The GCR3-11 unit is a design component of the iNELS system and is available in elegant black (GCR3-11/B) and white (GCR3-11/W) variants.

Glass info panel GDB3-10 is part of a comprehensive series of glass iNELS control units for guest room management system (GRMS), and is used to indicate the requested status of guest room - "Do Not Disturb" and "Make Up Room".
It is available in elegant black (GCR3-11/B) and white (GCR3-11/W) variants.

The GSP3-100 is equipped with ten touch buttons whose functions can be easily adjusted. Button symbols can be changed and adapted to the client's requirements upon a request. The buttons can be backlit in red, green, blue, yellow, pink, turquoise and white. The panel is available in elegant black (GSP3-100/B) and white variants (GSP3-100/W).

HOSPITALITY SOLUTION - GRMS

Glass switch button with symbols
2 buttons

Glass switch button with symbols
4 buttons

Glass switch button with symbols
6 buttons

Technical parameters	GSB3-20/S	GSB3-40/S	GSB3-60/S
Number of buttons	2	4	6
Supply voltage	BUS 27 V DC	BUS 27 V DC	BUS 27 V DC
Rated current from BUS	27-35 mA (at 27 V DC)	27-35 mA (at 27 V DC)	27-35 mA (at 27 V DC)
Inputs	internal temperature and brightness sensor, 1x external input for TC/TZ	internal temperature and brightness sensor, 1x external input for TC/TZ	internal temperature and brightness sensor, 1x external input for TC/TZ
Dimensions	94 x 94 x 36 mm	94 x 94 x 36 mm	94 x 94 x 36 mm
Order code	**20/SB:** 5621 **20/SW:** 5622	**40/SB:** 5623 **40/SW:** 5624	**60/SB:** 3291 **60/SW:** 3298

The glass switch with touch buttons in series GSB3 is a design element (controller) in the system iNELS3 with elegant and comfortable control options.
Controllers are available in black (e.g. GSB3-40/B, 60/B and 80/B) and white (e.g. GSB3-40/W, 60/B and 80/B) variants.

The glass switch with touch buttons with symbols in GSB3 series are equipped with two, four or six touch buttons, the functions of buttons can be easily adjusted. Button symbols can be changed and adapted to the client's requirements upon a request. The buttons can be backlit in red, green, blue, yellow, pink, turquoise and white. Touch panels are a design components of the iNELS3 system and are available in elegant black (GSB3-20/SB, GSB3-40/SB, GSB3-60/SB) and white variants (GSB3-20/SW, GSB3-40/SW, GSB3-60/SW).

HOSPITALITY SOLUTION - GRMS

Glass bedside panel - right and left

Technical parameters	GBP3-60R	GBP3-60L
Number of buttons	6	
Supply voltage	BUS 27 V DC	
Rated current from BUS	25-50 mA (at 27 V DC)	
Measurement	1x external input for TC/TZ or 1x digital, brightness sensor	
	Order code: 5728	**Order code:** 3533

GBP3-60 is available in several designs and is very flexible and efficient solution for a wide range of projects.
The following variants are available:
- Left / right design providing the same comfort of control from both sides of the bed.
- Accessories like power sockets, network sockets, HDMI or USB can be easily added in the bedside panel by changing the VIMAR modules.
- Black / white elegant design suitable for almost any interior.

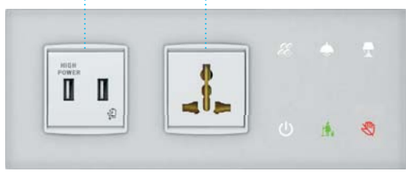
GBP3-60 can be equipped with a number of modules, eg:
- AC power sockets: UNI, Schuko, French, British.
- other types of modules: 2xUSB, USB, LAN, HDMI

GBP3 variants

Configure bedside panel according to your request.

L (left option)

position 2 position 1



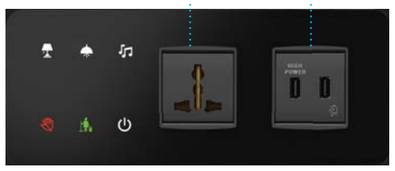
GBP3-60/WL/2F-26W-20W

position 1

GBP3-60/WL/1F-21W45W

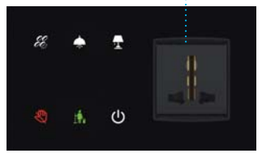
R (right)

position 1 position 2



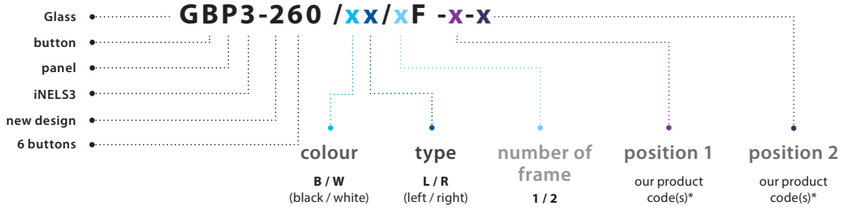
GBP3-60/BR/2F-26B-11B44B

position 1



GBP3-60/BR/1F-26B

Part number



* In case of 1-MODULE choice it is necessary to pick 2x 1-module to fi ll up the 1 position, for example GBP3-60/WL-**21W45W**.

HOSPITALITY SOLUTION - GRMS

Hotel control unit with touch screen

Glass room thermo-regulator

Glass card holder

Technical parameters	EHT3	GRT3-50		GCH3-31	
Input	-	-		1x changeover, 8 A	
Number of buttons	touch screen	7		3	
Supply voltage	BUS 27 V DC	BUS 27 V DC		BUS 27 V DC	
Rated current from BUS	150 mA (at 27 V DC)	85 mA (at 27 V DC)		100-120 mA (at 27 V DC)	
Measurement	-	internal thermometer and humidity sensor, 1x external input for TC/TZ or 1x digital		brightness sensor	
Dimensions	94 x 94 x 36 mm	94 x 94 x 36 mm		142 x 94 x 36 mm	
Order code	available in the price list	**50/B:** 5630	**50/W:** 5634	**31/B:** 5627	**31/W:** 3494

The control unit with touch screen EHT3 is a suitable control element for iNELS3 in places where it is required to control multiple devices. The unit replaces multiple controllers and reduces the number of switches on the wall. In LOGUS^{90} design.

Glass room thermo-regulator GRT3-50 is part of a comprehensive range of glass iNELS3 control units for guest room management system (GRMS) and serves to regulate the temperature in the room. Thermo-regulator is also equipped with 3 symbols for controlling fancoil speed.

GCH3-31 serves for inserting the RFID card into the holder, whereby the system acquires the information about whether the hotel guest is present in the room. With this information it is possible to ensure for example exit function with relation to energy savings in the absence of a guest in the room.

Touch panel

iTP 10"

Order code: 3538

- 10" touch panel designed to control iNELS.
- Black aluminum frame chassis in combination with glass.
- Integrated speakers and microphone are primarily designed for intercom operation.
- Connection to the local area network can be done via Ethernet connection with PoE power supply - Active PoE (IEEE 802.3af).
- Android for iHC (iNELS Home Control).
- Update of applications is managed online.
- The panel also includes a cover that also serves as a mounting frame.

System units

eLAN-IR-003

Order code: 3283

- The applications iHC-MAIR and iHC-MIIR provide universal control for all audio/video devices (including air conditioning).
- The application directly control the eLAN-IR over the network.
- The intuitive application environment makes it simple for anyone to control.
- What all can you control? Home theater, TV, DVD or Blue-ray player, amplifier, set-top box, satellite receiver, air-conditioning, projector and more.
- It can control up to 100 arbitrary commands with various controllers that you normally have at home.
- The scenes function - you can perform multiple functions simultaneously by a single command (e.g. you are going to bed you and switch off all AV appliances in the entire home with a single press).
- It is possible to integrate into a single application an unlimited number of IR boxes, meaning that in one application you can have eLAN-IR in the living room, children's rooms, etc.
- It is also possible to control remotely from anywhere using a Wi-Fi network (e.g. from work or vacation).
- Thanks to auto-IP acquisition from the DHCP server, you don't need to set up a network configuration again.
- You can connect three IR lenses to the smart IR box eLAN-IR-003 for three directions of controlling.

System units

eLAN-RS-485/232

Order code: 7026

- The eLAN-RS485/232 allows you to control air-condition from your smart phone, tablet, or it can read a data from electronic security systems (Jablotron, Paradox).
- The eLAN-RS485/232 is connected to the router or switch and communicates with a smartphone over the network.
- Intuitive application environment offers centralized control from one place.
- If you don't have a fixed IP address, the converter will automatically get it from the DHCP server.
- Power converter with 10-27 V DC adapter is included
- Possibility of PoE 24 V DC.
- You need a Connection Server (to communicate with the application) to install.
- Set up via web interface.

Connection Server

Order code: 5803

- The connection server is providing a communication between iNELS BUS System with the third party devices, smartphone or tablet.
- The iHC application's environment enables us to control all these technologies from just one app.
- If Connection server is present in the installation, you can control your household with the smartphone app, check your CCTV system, regulate the air-conditioning, control Miele appliances or control recuperation.
- It also allows the communication with the domestic voice intercom 2N. It can also arrange the information from the weather station GIOM or data from energy meters (electricity, water, gas), which is visualized in clear graphs.
- Connection server uses the Raspberry Pi hardware and the apps requires a license which is paired with the MAC address of the device.
- As a part of the package, we also included SD card where we previously installed Linux OS and its needed software equipment.
- The configuratution is happening on its own web interface, where the default IP address is not fixed. (The IP address is assigned from the DHCP server and it's needed to be known when we're connected to the network).

LARA

Music and internet radio player

Music and internet radio player with intercom and videophone features

Technical parameters	LARA Radio	LARA Intercom
Power supply	Passive PoE 24 V DC/1.25 A	Passive PoE 24 V DC/1.25 A
Min. /max. input	1.4 W / 26 W (peak at maximum playback performance)	1.4 W / 26 W (peak at maximum playback performance)
Display	Color OLED, Resolution: 128 x 128 pixels	Color OLED, Resolution: 128 x 128 pixels
Microphone	no	yes

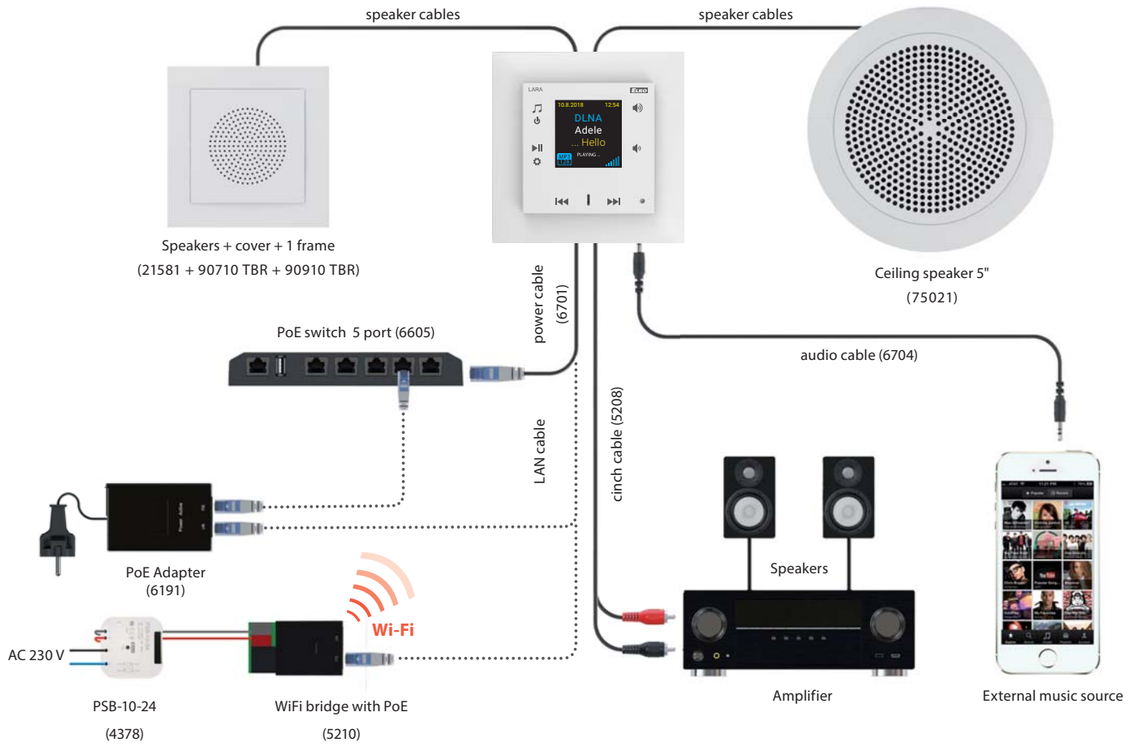
Order code: LARA-R

- Music and internet radio player - all in the dimension of a switch and a luxurious LOGUS^{90} design.
- LARA Radio - when connected to the Internet, it can play streaming radio stations and you can store up to 40 of them. But you can also select from thousands of radio stations from across the globe, which provide data for correct connection.
- LARA Radio can play content from an external music source, which can be an smart phone or e.g. an MP3 player. These devices are connected to a 3.5mm stereo jack audio input, located underneath the front panel.
- LARA Radio can also play audio files from central data storage.

Order code: LARA-IC

- LARA Intercom offers users 5 different functions and expands even more options to LARA Radio - music players and internet radio stations within the range of LOGUS^{90} switch designs.
- LARA Intercom provides an extra functionality and videophone intercom.
- Thanks to videophone function, now it is possible to have a voice communication between LARA and IP intercoms. So if someone ring the doorbell, you can see the picture of the visitor on the screen. Controlling of electronic door lock from LARA is the easiest thing.
- LARA Intercom is equipped with an OLED colored display with the size of 1.5", which is used to transfer images and sounds from the door camera properly.

Wiring example

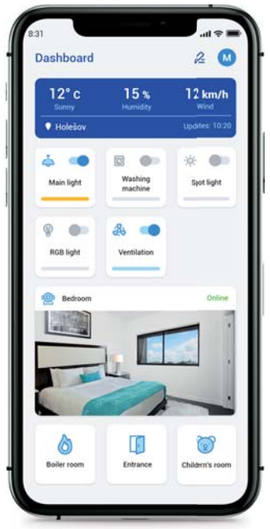


iNELS app: "ALL in ONE"

Replaces the original application:
- iNELS Home Control Mobile and iNELS Home Control Tablet (for CU3 series and Connection Server)
- iNELS Home RF Control (for eLAN-RF)
- iNELS Home Control IR Mobile (for eLAN-IR)
- LARA Dio (for LARA player)

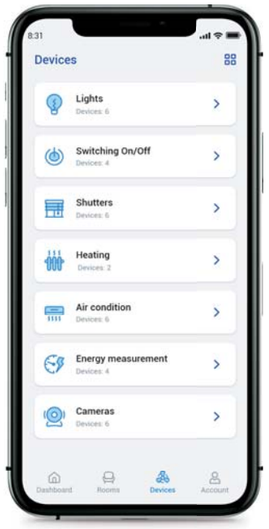
and combines them into one.
This revolutionary application allows not only the control of all the above devices and elements, but also the setting of simple events (scenes) directly by the user - across iNELS systems.
It also integrates the control of 3rd party devices (cameras, intercoms, home appliances). Allows direct connection to the device or connection via iNELS.Cloud, including voice assistant control.
New features are configurable notifications, an optional dashboard or definable roles (rights) for individual users.

		Silver	Gold	Platinum
Electroinstallation	Lighting control	✓	✓	✓
	Garage doors and gates	✓	✓	✓
	Switching appliances	✓	✓	✓
	RGB bulbs and LED strips	✓	✓	✓
	Scenes	✓	✓	✓
	Detectors/sensors	✓	✓	✓
HVAC	Heating	✓	✓	✓
	Air conditioning	✗	✓	✓
	Recuperation	✗	✓	✓
Audio	LARA	✗	✓	✓
	NAS	✗	✗	✓
3rd party	Cameras	✓	✓	✓
	Weather station	✗	✓	✓
	Intercoms	✗	✓	✓
	Home appliances	✗	✗	✓
Energy management	Energy dashboard	✗	✓	✓
	History report (charts & graphs)	✗	✗	✓
Voice assistants	Google Home	✓	✓	✓
	Amazon Alexa	✓	✓	✓
Others	Automation	✗	✓	✓
	Notification	✓	✓	✓
	Widgets	✓	✓	✓
	Favourites/overview	✓	✓	✓
	Log history	✗	✓	✓
	eLAN-IR	✗	✓	✓
	Geolocation	✗	✓	✓
	Weather data	✗	✓	✓
	Conrad Connect	✓	✓	✓
	Users management	✓	✓	✓



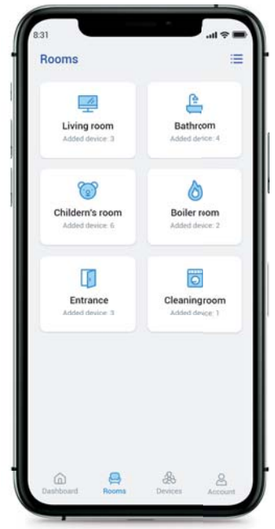
Overview

Dashboard of the state of all devices.



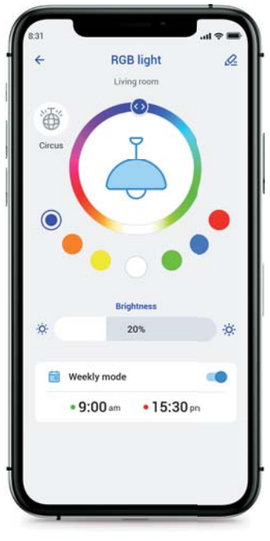
Device list

Control the device from anywhere.



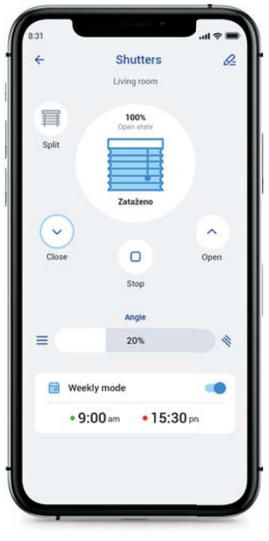
Rooms management

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.

Switches and sockets

Luxurious design for any interior

www.elkoep.com

LOGUS90

DESIGN LINES

We offer you switches, sockets and accessories in standard design, plastic or metallic, but you are also sure to be enchanted by the luxurious designs of frames made from natural materials: solid wood, metal, granite or hardened glass - crystal.

The frame is complemented by a button cover in the shades of pearl, aluminum or e.g. dark gray or ice - where many combinations come alive based on the customer's wishes and personal taste. Not just their refined design, but also long service life and resilience are the hallmarks of these switches.

You will see quality not only in the visible parts of the covers, but also in the switch mechanism itself. The mechanisms excel for their many features that make installation quick and easy, and guarantee safe operation. Thanks to their special design, they can even deal with potential wall unevenness.

BASE
Smart finish. Discrete shape of function.

BR - White
MF - Ivory

AQUARELLA
Distinct colors.
Shades that characterize the space.

GE - Ice
PE - Pearl
AL - Aluminium
IS - Gray
PM - Black
DU - Gold

ANIMATO
Large selection of colors,
modern design and pleasant price.

BB - White/White
MM - Ivory/Ivory
RG - Yellow/Ice
DG - Green/Ice
ZG - Blue/Ice
JG - Orange/Ice
VG - Red/Ice

EE - Ice/Ice
PP - Pearl/Pearl
TS - Brick/Gray
BS - Wine/Gray
AA - Aluminium/ Aluminium
AS - Aluminium/ Gray
SS - Gray/Gray

PG - Black/Ice
PA - Black/ Aluminium
PS - Black/Gray
RR - Black/Černá
UG - Gold/Ice
UU - Gold/Gold

CRYSTAL
Brightness and clarity.
Shades that bring the shine of crystals into a honed experience.

CG - Cristal/Ice
CP - Cristal/Pearl
CA - Cristal/ Aluminium
CS - Cristal/Gray
EC - Glass-black/ Pearl
EG - Glass-black/Ice
EA - Glass-black/ Aluminium
ES - Glass-black/ Gray
EP - Glass-black/ Black

METALLO
Distinction and modern feel.
The refi nement and brightness of metal enhance the value of the surroundings, and lend inspiration to great moments.

TP - Titan/Pearl
IA - Inox/Aluminium
OP - Gold/Pearl
QS - Nikl/Gray
US - Aluminium/ Gray
RS - Chrome/Gray
OU - Gold/Gold

ARBORE
Selection of natural materials.
Warm shades of wood with their varying structures create a room full of happiness and sincere comfort.

FP - Beech Wood/ Pearl
JP - Cherry Tree/Pearl
MS - Mahogany/ Gray
NA - Walnut Tree/ Aluminium

PETRA
The beauty and stability of nature.
Stone with its uneven patterns, shaped by time and nature, represent the sense of firm and unending existence.

GG - Granite/Ice
GP - Granite/Pearl
GA - Granite/ Aluminium
GS - Granite/Gray

The entire design series are available from 1 frame up to 4 frames.
The BASE and AQUARELLA series are available from 1 frame up to 5 frames.
Horizontal or vertical position of the frame is possible thanks to their symmetrical shape.

Device covers in red, orange, green for hospital environments.

DEVICES OVERVIEW

Switch one-pin

Switch two-pin

Switch three-pin

Rotary dimmer

Movement detector

Card switch

Button with LED lamp symbol KEY

Blinds

Switch

UNITS OF THE iNELS SYSTEM IN LOGUS⁹⁰ DESIGN

Wall-mounted controller

Multifunction unit

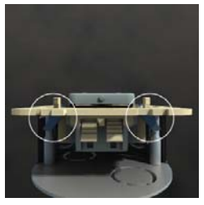
Digital room temperature controller

DEVICES OVERVIEW

- switches
- switches with lock
- time switches
- over-switches
- rotary switches
- dimming switches
- two-pole switch
- pushbuttons
- switch, pulling switch
- orientation lighting
- shutters controllers
- shutters controllers with IR sensor
- digital time switch motion detectors
- card switch
- standard socket
- sockets Schuko, EURO-USA
- RJ45 connectors
- data sockets Cat 5, Cat 6
- sockets radio, TV, satellite, data
- telephone sockets
- double button (2NO+2NC)
- programmable thermostat (space/floor)
- simple thermostat (space/floor) with infrared control automatic relay for controlling blinds
- multimedia sockets

ADVANTAGES MECHANISMS

Mechanism are made of special alloy of non-flammable plastics that prevent in destruction or damage of device body thanks to their strenght and elasticity. The plastic design of the mechanism simultaneously ensures safe insulation from conductive parts of installation. The mounting frame is an integral part of the device. The device is compact, lightweight and enables easy and quick installation without using any tools.


Quick Clips allow installation to adjust the frame on an uneven wall (two positions for the "snap" frame). Inequality walls will allow the deal and floating fingerboard.

Ability to test electrical functionality of your device without disassembly.

Shaped edge of the body mechanism to align the mounting multiple devices.

Depth 20 mm only alows mounting to instrumentation device / box.

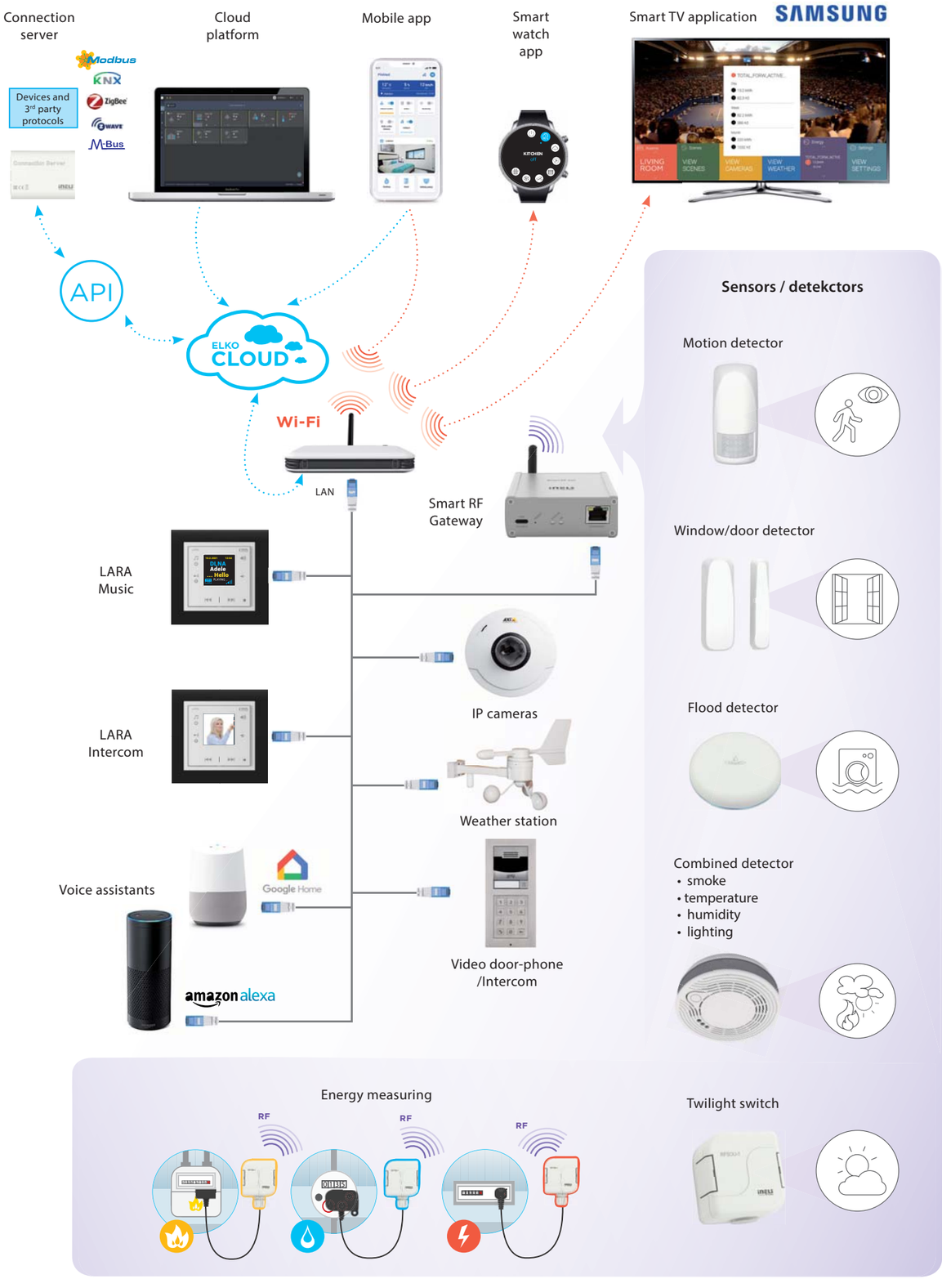
Screwless terminals provide fast and quality connection without need of instrument usage. Double terminals on every pole provide multiple connection withoutneed of extra terminals usage.

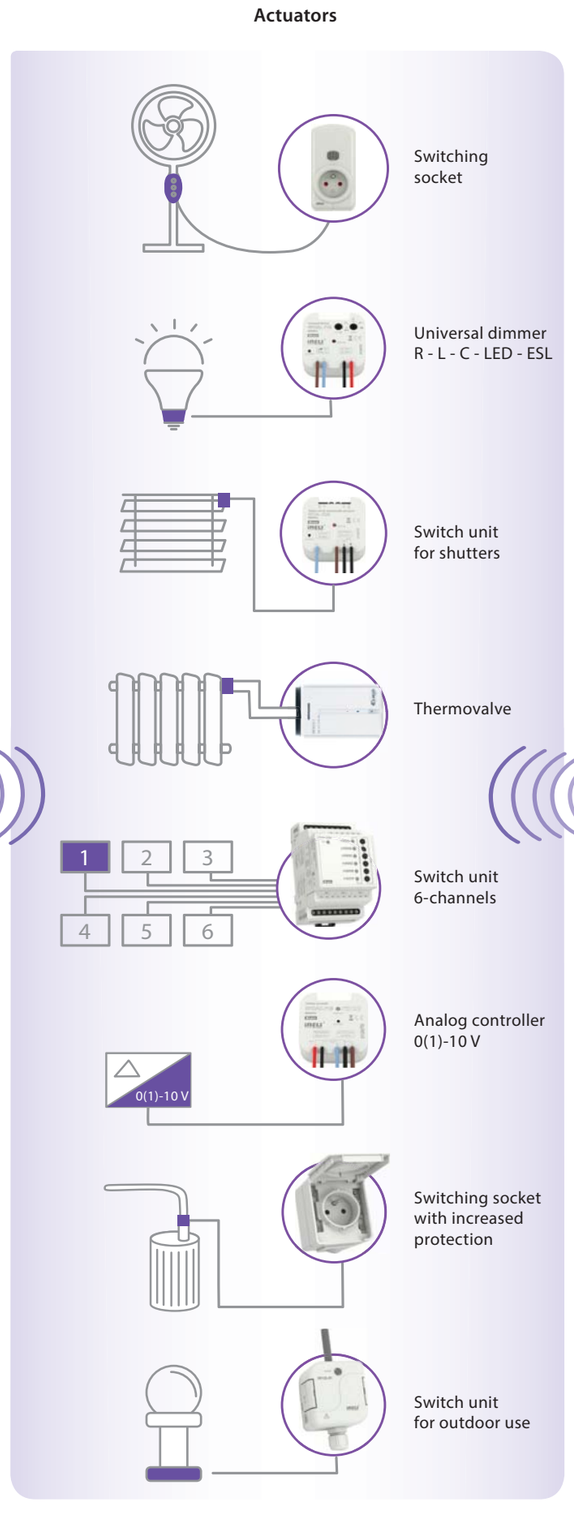
Ability to test electrical functionality of your device without disassembly.

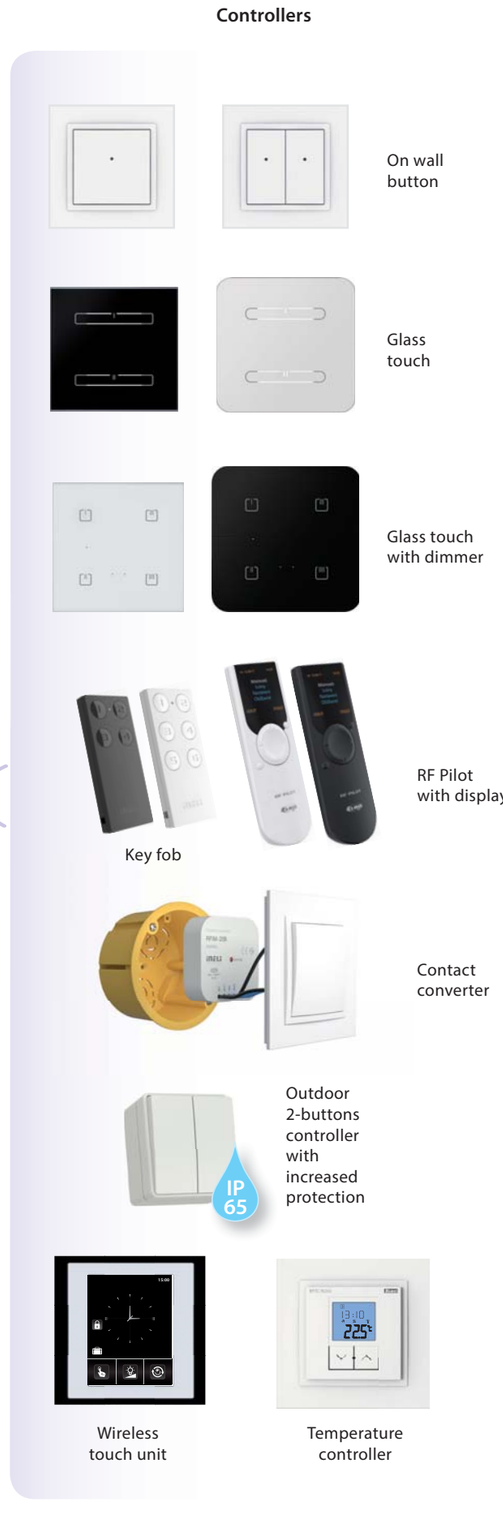
		Order code	Box (Un)
	Card-System Timer Switch 16 A - 100-240 V~	21033	1
	Timer Switch 16 A - 100-240 V~	21040	1
	Motion Detector - Wall Installation 1000 W - Power: 100-240 V~ - 50/60 Hz; - Compatible with any kind of load - Possibility of two external inputs: ON/AUTO and Timed	21403	10
	Motion Detector - Wall Installation 400 W - Power: 100-240 V~ - 50/60 Hz; - Compatible with any kind of load - Possibility of two external inputs: ON/AUTO and Timed.	21404	10
	Rotary Thermostat - Power: 100-240 V~ - 50/60 Hz; - Maximum load: 16A (3680W, cosφ =1); - Compatible with any kind of load - Systems Control: Heating and/or Cooling; - Temperature settings: 5˚C to 30˚C; - Possibility of connecting theTC-03	21234	1
	RLC Dimmer Press Switch 100-240 V~	21218	1
	White Orientation Light - Two lighting levels: L1 - 0,2 W; L2 - 0,4 W - 230 V ~ - 50/60 Hz	21388	10
	White Orientation Light with battery - Two operating functions - 230 V ~ - 50/60 Hz	21389	10
	Double USB Charger Type A with Output at 20º - Voltage: 100-240 V~. - Frequency: 50-60 Hz. - Output voltage: 5 V. - Output current: 2.4 A. - Two USB type A outlets.	21384	1

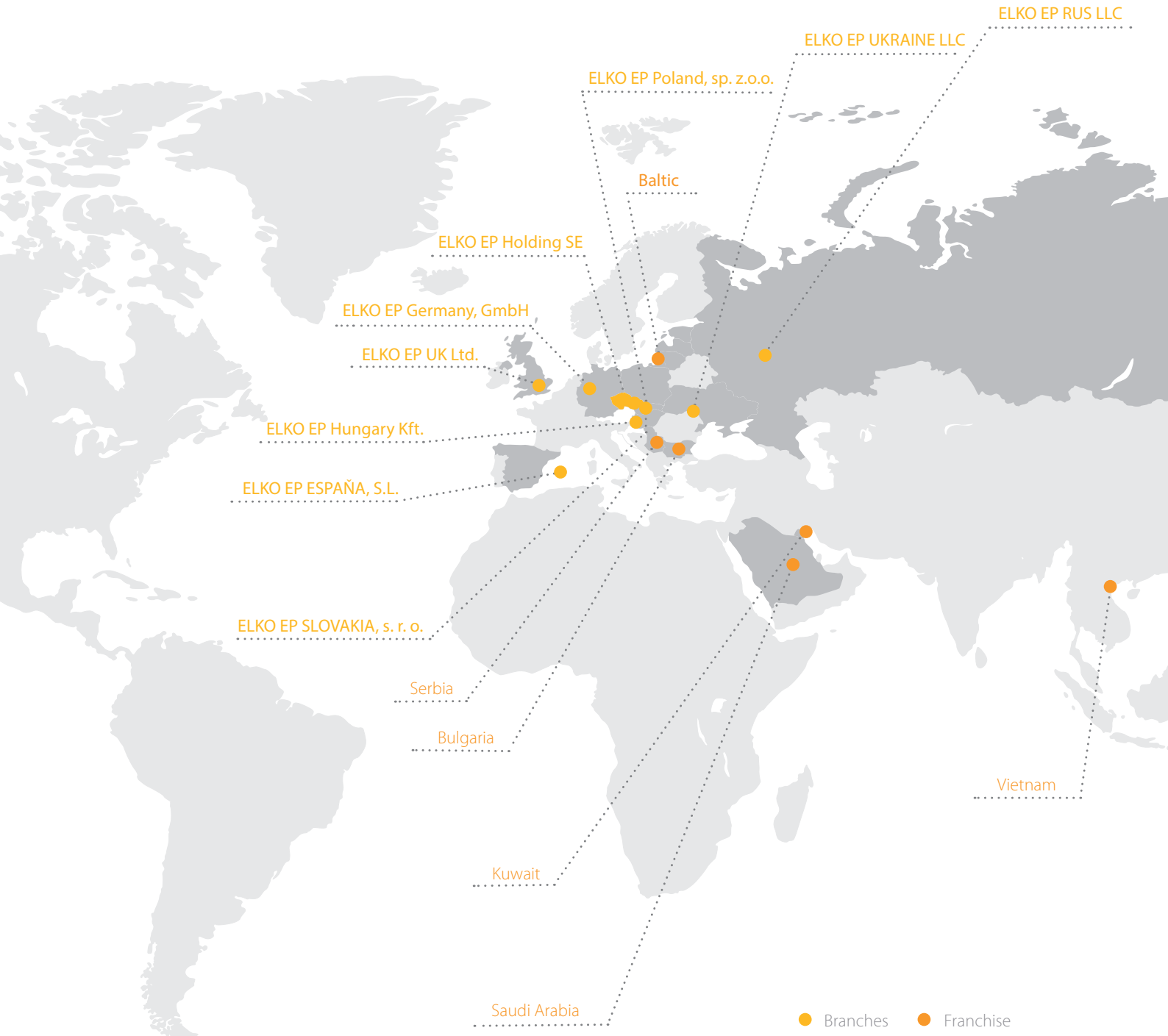
		Order code	Colour	Box (Un)
	Cover Plate for Card-System Timer Switch	90733 T	BR MF GE PE AL IS PM DU	1
	Rocker for Timer Switch	90745 T	BR MF GE PE AL IS PM DU	1
	Cover Plate for Motion Detector - Wall Installation	90403 T	BR MF GE PE AL IS PM DU	1
	Cover Plate for Rotary Thermostat	90746 T	BR MF GE PE AL IS PM DU	1
	Rocker for RLC Dimmer Press Switch	90747 T	BR MF GE PE AL IS PM DU	1
	Cover Plate for Orientation Light	90782 T	BR MF GE PE AL IS PM DU	20 2
	Cover Plate for Double USB Charger Type A with outlets at 20º	90673 T	BR MF GE PE AL IS DU PM	1

Scope architecture









ELKO EP, s.r.o. | Palackeho 493 | 769 01 Holesov, Vsetuly | Czech Republic
phone: +420 573 514 221 | fax: +420 573 514 227 | elko@elkoep.com | www.elkoep.com

Published: 02/2021 | Modifications or amendments reserved | © Copyright ELKO EP, s.r.o. | 1st edition