

PRODUCT OVERVIEW









ELKO EP have been your partner in the field for 30 years, developing and manufacturing the highest quality Electronic devices for Electroinstallation as well as Smart System for Residential and Building automation.

ELKO EP employs more than 330 people across 15 foreign branches and exports its products to more than seventy countries. Company of the Year, Visionary of the Year, Superbrands and Global Exporter of the Year are just some of the awards we have received throughout the years as we consistently strive to move forward in the field of innovation and development.

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

Facts and stats



30 %

40 %

30 %

Czech

export

branches







30 000 +



WORLDWIDE

11 branches 5 franchises 70 export countries 330

employees

in holding

iNELS installations 30 000 000 +

S manufactured ions products







R&D

continuosly innovative

MANUFACTURER

fully automated complete proces

SUPPORT

24 / 7 / 365

World leader

in DIN rail relays production

Timers/Relays

www.elkoep.com/relays

Time relays, auxiliary relays, installation contactors, memory and bistable relays, staircase switches, time switches, twilight and light switches, dimmers and light intensity controllers, power supplies and bell transformers, controlling and signalling



Monitoring/Protection relays

www.elkoep.com/monitoring

Voltage relays 1-phase and 3-phase (undervoltage, overvoltage, phase failure, phase asymmetry and phase sequence), current relays, liquid level relays, thermostats, voltage indicator, power factor and frequency monitoring relays.





Wireless electro-installation iNELS

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 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.



Smart kits

elkoep.com/smart-kits

Smart Kits are pre-packaged sets of our most popular wireless control devices from the iNELS Wireless product range. The devices in the set are paired and ready for immediate assembly. Kits are divided according to their main functions, so customers can easily choose from the following categories: Wireless switch, Wireless dimming, Wireless shutter control and others.





Wired electro-installation iNELS

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).



Integration

www.elkoep.com/building

The new IP infrastructure and MQTT protocol enables the connection of iNELS central units for third-party integration and control. With the help of iNELS Bridge, It is possible to integrate almost the entire iNELS portfolio, including third-party devices that can be connected using the open Home Assistant platform. This help in connection to other protocols that the technology brings in the building (Modbus, Bacnet, KNX, etc.).





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 OPTIONS

1-MODULE 2-MODULES 3-MODULES 4-MODULES 6-MODULES



BOX - flush mounted

BOX-SL - screw-less terminals





BOX - into the cover



into 8/11-Pin socket

into the panel

outdoor housing (IP65 protection)



plug

63 x 110 x 74 mm

0









interior

















BASE



in LOGUS90 design

METALLO











	CRM-181J	CRM-183J	CRM-161	CRM-91H	CRM-93H	CRM-111H	CRM-113H	CRM-2T
Туре	Single-f	unction	Multi-function - ECONOMY	Multi-function	BESTSELLER	Multi-function with Inhibit delay		Star/delta timer
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
2 nd (3 rd) 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 ZN - INTE BL - FLASHE	RVAL ON	ON DELAY, INTER- VAL ON, FLASHER ON first, OFF DELAY, ON/OFF delay, ME- MORY 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, INTER- VAL ON, FLASHER ON/OFF first, MEMORY LATCH, OFF DELAY, SINGLE SHOT, PULSE GENE- RATOR 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
New functions	OD - OF	= DELAY	-	-	-	WATCHDOG, INTERVAL ON/OFF, MEMORY LATCH WITH DELAY	WATCHDOG, INTERVAL ON/OFF	-

General information

Mounting				35 mm DIN ra	il (IEC 60715)						
Temperature Range				Operating: -20°C to Storing: -30°C to +7							
Lifetime		Electrical: 100,000 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	90 x 17.6 x 64 mm	90 x 17.6 x 64 mm	90 x 17.6 x 64 mm	90 x 17.6 x 64 mm	90 x 17.6 x 64 mm	90 x 17.6 x 64 mm	90 x 17.6 x 64 mm			
Dimensions	3.5" x 0.7" x 2.5"	3.5" × 0.7" × 2.5"	3.5" x 0.7" x 2.5"	3.5" x 0.7" x 2.5"	3.5" x 0.7" x 2.5"	3.5" x 0.7" x 2.5"	3.5" x 0.7" x 2.5"	. 3.5″ x 0.7″ x 2.5″			

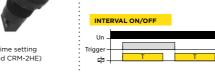
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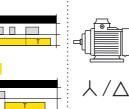




GOOD DEAL





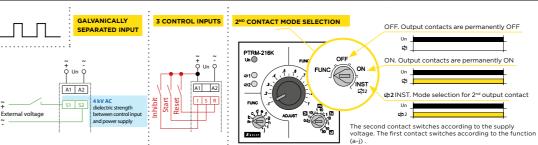


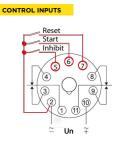


AC/DC 12-240V or AC 230V only (AC 50-60 Hz)	AC/DC 12-240V (AC 50-60 Hz)							
0.1 s - 100 days	0.05 s - 30 days	0.05 s - 30 days	0.05 s - 30 days	0.05 s - 30 days	0.05 s - 30 days	0.05 s - 30 days	0.05 s - 30 days	0.05 s - 30 days
SPDT (1x C/O) 16 A/250 V	SPDT (1x C/O) 16 A/250 V	SPDT (1x C/O) 16 A/250 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

2	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	WITH CONTROL SIGNAL: ON DELAY, INTERVAL ON, FLASHER-ON first, OFF DELAY, SINGLE SHOT, PULSE GENE- RATOR O.5 s, ON/ OFF DELAY	ON DELAY, INTERVAL ON, FLASHER - ON/ OFF first, OFF DELAY, SINOFLE SHOT, PULSE GENERATOR 0.5 s, ON/OFF DELAY, MEMORY LATCH		ON DELAY, INTERVAL OFF first, OFF DELAY, GENERATOR 0.5 s, ON LAT	SINGLE SHOT, PULSE	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	WATCI INTERVAL	,	WATC INTERVAI		WATC INTERVAL	

3	5 mm DIN rail (IEC 6071	5)			11 Pin Oct	al Socket		
		Operating: -20°C to +55°C (-4°F to 131°F) Storing: -30°C to +70°C (-22°F to 158°F)						
Electrical: 100,000 operations Mechanical: 10,000,000 operations								
Between pow	er supply and output co	ntact: 4 kV AC		Bei	ween 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 (3.85 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 90 x 17.6 x 64 mm 90 x 17.6 x 64 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	48 x 48 x 79 mm
3.5" x 0.7" x 2.5"	3.5" x 0.7" x 2.5"	3.5" x 0.7" x 2.5"	1.7° x 1.7° x 3.5°	1.7° x 1.7° x 3.1°	1.7° x 1.7° x 3.5°	1.7″ x 1.7″ x 3.1″	1.7″ x 1.7″ x 3.5″	1.7" x 1.7" x 3.1"















	15 16 19	15 16 18 BES	15 18 E	15 18 18	31 14 18
	multifunction, economy version of CRM-91H	multifunction 1x output contact	multifunction 3x output contacts	multifunction with external potentiometer	multifunction 1x solid state output
Technical parameters	CRM-161	CRM-91H	CRM-93H	CRM-91HE	CRM-9S
Output	1x CO, 8 A	1x CO, 16 A	3x CO, 8 A	1x CO, 16 A	1x triac, 1.5 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 12-240 V (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)	0.1 s - 10 days (10 ranges)
Number of functions	6	10	10	10	10
Dimensions		90	2.5″)		
Order code	8161	UNI: 7521 230V: 7078	UNI: 7561 230V: 7562	8145	8506
	Economy 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.	use in automation, control a stallations. 10 functions, 10	onal time relay for universal nd regulation or in house in- time ranges, multifunctional ver supply in a wide range of	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.	Same as CRM-91H only with non-contact output (triac). The advantage of contact- less output is noiselessness and extreme durability.
MODULE on DIN rail					

TIME RELAYS multifunction, on DIN rail











	1				
	multifunction with Inhibit (delay) 1x output contact	multifunction 3x output contacts 2nd & 3rd contact selection	multifunction galvanically separated control input	multifunction 3 control inputs	TRUE OFF DELAY after power supply failure
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, except for the flasher function, can use the control input to inhibit the delay (pause).	All functions initiated by the supply voltage, except for the flasher function, can use the control input to in- hibit the delay (pause). 2nd & 3rd contact mode selection.	Galvanically separated control input (Power Trigger) for control with external voltage in the range at AC / DC 12-240 V.	Three control inputs – START, INHIBIT, RESET. All functions start with triggering of control input START.	Relay is timing after powe supply failure and is switched off after set time period. Two time functions: a - TRUE OFF DELAY e - ON DELAY
	■30 ■ 26 30 € ■30 5 €	■30 92,35 ■36,4	□\(\)(\)(\)(\)(\)(\)(\)(\)(\)(\)(\)(\)(\)		

TIME RELAYS single function, on DIN rail



4 functions

1x output contact CRM-181J



4 functions

3x output contacts

CRM-183J



STAR / DELTA

CRM-2T





CRM-2H

with two external

CRM-2HE

2-channel ON DELAY function 2x output contacts

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 (AC 50-60 Hz)	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 mn	n (3.5″ x 0.7″ x 2.5″)						

CRM-2T/UNI: 7669

Time t1 **\(\)** (star)

0.1 s do 100 days.

CRM-2T/230V: 8381

Time t2 (delay) **人**/▲



Technical parameters

ZR: ON 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



CRM-2H/UNI: 7668 CRM-2H/230V: 8395 independently adjustable output closing and opening time.

• asymmetric flasher - ON first • asymmetric flasher - OFF first.

2 time functions:

CRM-2HE/UNI: 8144 Asymmetric flasher with possibility of time control with external potenti-

2 time functions: • asymmetric flasher - ON first

• asymmetric flasher - OFF first.



SJR-2/UNI: 7670

SJR-2/230V: 8396

It is used for gradual

(cascade) switching. 2 x independent ON

DELAY outputs. Time

adjustable from 0.1 s to 100 days.

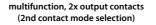
TIME RELAYS multifunction, PLUG-IN





into 11-pin octal socket





input to inhibit the delay (pause).



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		
Fine time setting	rotary potentiometer	knob	rotary potentiometer	knob	rotary potentiometer	knob		
Output			2x CO					
Housing			PLUG-IN, into 11	-pin octal socket				
Control input	line voltag	line voltage trigger control switch trigger 3 control inputs (START, INHIBIT, RESE						
Supply voltage (frequency)	AC/DC 12-240 V (50-60 Hz)							
Time range	50 ms - 30 days (10 ranges)							
Number of functions			1	0				
Dimensions	48 x 48 x 79 mm (1.9" x 1.9" x 3.1")	48 x 48 x 89 mm (1.9" x 1.9" x 3.5")	48 x 48 x 79 mm (1.9" x 1.9" x 3.1")	48 x 48 x 89 mm (1.9" x 1.9" x 3.5")	48 x 48 x 79 mm (1.9" x 1.9" x 3.1")	48 x 48 x 89 mm (1.9" x 1.9" x 3.5")		
Order code	7938	7861	7938	7557	7560	7559		
	All functions initiated by cept for the flasher funct		Three control inputs – All functions start with			y the supply voltage, ex- tion, can use the control		

input START.







input to inhibit the delay (pause).



TIME RELAYS digital, on DIN rail

STAIRCASE SWITCHES









3 or 4 wire connection.

	multifunction LCD display 1x output contact	multifunction since the control of t		standard 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 CC), 16 A	1x CO, 16 A	1x CO, 16 A	
Housing	1-MODULE	3-MC	DDULE	1-MODULE	1-MODULE	
Supply voltage (frequency)	AC/DC 24-240 V (AC 50-60 Hz)	AC/DC 12-240 V or A	C 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	
CRM-100	Control input B1 is controlled by the supply voltage. More accurate thanks to digital time setting.	LED display. It is used for appl to set the exact time (have a PDR-2A: optional second rela	ŕ	It is used for delayed switch- ing off of lighting on stairs, corridor, entrance It is controlled by the but- ton or several buttons from several places (connected in parallel).	Smart features: - extending time - premature shutdown - impulse relay - signalling before switching OFF. 3 or 4 wire connection.	

TIME RELAYS flush/cover mounted

BOX flush mounted









multifunction

2 wire (without NELITRAL)

multifunction A wire (with NELITRAL)

multifunction 4 wire (with NELITRAL)

	3-wire (without NEUTRAL) on input: LED bulb	3-wire (without NEUTRAL) on input: incandescent bulb	4-wire (with NEUTRAL) contactless output	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
	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 en- ergy saver can be connected, only other types of loads. Glow-lamps are supported.	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.







2-channels





1-channel

with Wi-Fi communication 1-channel 2-channels

Technical parameters	SHT-1	SHT-1/2	SHT-13	SHT-13/2			
Program	weekly	, yearly	weekly, ye	early, astro			
Replaceable battery	r	no	ye	es			
Output	1x CO, 16 A	2x CO, 16 A	1x CO, 16 A	2x CO, 16 A			
Housing		2-MO	DULE				
Supply voltage (frequency)	AC/DC 12-240 V or AC	C 230 V (AC 50-60 Hz)	AC/DC 24-240 V (AC 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	8907	8485			
	It is used to control various appliance weekly (SHT-1), and weekly and annu Power backup in case of battery power cover. Possibility of automatic summer functions: manual control, random sw	aly (SHT-3) program. rfailure. Backlit LCD display, sealable r / winter time transition. Additional	pulse / cycle output, PIN code protection and many more.				
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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					
Housing	1-MODULE		2-MODULE				
Supply voltage (frequency)	AC 230 V (50/60 Hz)						
Dimensions	90 x 17.6 x 64 mm	90 x 35 x 60 mm					
Order code	8217	8212	8218	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.























1x 16 A contact supply: AC 230 V	1x 16 A contact supply: AC 230 V	1x 16 A contact supply: UNI	3x 8 A contacts supply: AC 230 V	3x 8 A contacts supply: UNI	3x 16 A contact: supply: AC/DC 24 V	3x 16 A contacts supply: 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							
Supply voltage (frequency)	AC 230 V (50-60 Hz)	AC/DC 24V 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



							control	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	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

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-

with manual

with manual



1x NO, 16 A

contact

BR-216-10

BISTABLE (IMPULSE) RELAYS



2x NO/NC, 16 A

contacts

BR-216-11



2x NO, 16 A

BR-216-20







100	-		
2x NO, 20 A contacts rith remote cont	2x NO, 32 A contacts rol disconnection	electronic vers 1x CO, 16 A contact	sion - noiseless 2x CO, 16 A contacts
BR-220-20	BR-232-20	MR-41	MR-42
2x NO, 20 A	2x NO, 32 A	1x CO, 16 A	2x CO, 16 A

1x NO), 16 A	6 A 1x NO+1x NC, 16 A			, 16 A	2x NO, 20 A		2x NO, 32 A		1x CO, 16 A		2x CO, 16 A		
1 -MODULE											1-MODULE			
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)	
>	(X	(x		yes		yes		x		2	<	
6969	6885	6970	6887	6971	6886	6972	6888	6973	6889	8248	8224	8249	8225	
	AC 120 V (60 Hz)	(60 Hz) (50 Hz)	AC 120 V AC 230 V AC 120 V (60 Hz) X	AC 120 V AC 230 V AC 120 V AC 230 V (60 Hz) X X	AC 120 V AC 230 V AC 120 V AC 230 V (50 Hz) AC 120 V (50 Hz) X X	AC 120 V AC 230 V AC 120 V AC 230 V (50 Hz) AC 230 V (50 Hz) X X X X	AC 120 V AC 230 V AC 120 V AC 230 V (50 Hz) AC 230 V (50 Hz) X X X Y Ye	1-MODULE AC 120 V AC 230 V AC 120 V AC 230 V (50 Hz) AC 120 V AC 230 V (50 Hz) X X X X X Y yes	1-MODULE AC 120 V AC 230 V AC 120 V AC 230 V (50 Hz) (60 Hz) AC 230 V (50	1-MODULE AC 120 V AC 230 V AC 120 V AC 230 V (50 Hz) AC 230 V (50 Hz) AC 230 V (50 Hz) X X X X Y Yes Yes	1-MODULE AC 120 V AC 230 V AC 120 V AC 230 V (50 Hz) AC	1-MODULE 1-MOCULE 1-M	1-MODULE AC 120 V AC 230 V AC 120 V AC 230 V (50 Hz) (60 Hz) (50 Hz) (60 Hz) X X X X Y Yes Yes Yes 1-MODULE 1-MODULE	

The state of the output contacts changes with the coil pulse. They are 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

Technical parameters





with external sensor





with build-in time switch

and external sensor



for outdoor use

with built-in sensor



external photosensor

			and external sensor				
Technical parameters	so	U-1	SOU-2	SOU-3	SKS-100,	SKS-200	
Output	1x C0), 16 A	1x CO, 8 A	1x NO, 12 A	SKS-100: f	or use with	
Housing	1-M0	DDULE	2-MODULE	box with IP65	SOU-1, LIC-1		
Supply voltage (frequency)	AC/DC 12-240 V AC 230 V (AC 50-60 Hz)		AC 230 V (50-60 Hz)	AC 230 V (50-60 Hz)	SKS-200: for use with SOU-2		
Sensor	external	, SKS-100	external, SKS-200	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 mr	n (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	8046	7551	8234	4056	8073	8233	
	Twilight switch (1-100 lx) or (100- 50 000 lx), which closes the output when the level falls below the set level. External sensor SKS-100 inclu- ded in the package.		Digital twilight switch with timer, i.e. the lighting level can be blocked in real time. External sensor SKS-200 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 photosen- sor SKS-100 and SKS-200 for panel or wall mount- ing, via the included bracket.		















adjustable output for voltage drop compensation, high load in small design output voltage 12 or 24 V

flush/cover mounted regulated 12-24V output voltage 12 or 24 V

Technical parameters	PS	1M	PS	2M	PS	3M	PS	4M	PSE	3-10	PS-30-R	
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-MO	DULE	2-MC	DULE	3-MODULE 4-MODULE				В	XC	3-MODULE	
Supply voltage (frequency)		AC 100-240 V (50-60 Hz)								AC 110-250 V (50-60 Hz)		
Protective circuits			overlo		short circuit, current and temperature overload (from 120% of rated power)							
Dimensions		x 58 mm .7″ x 2.6″)		x 58 mm .4″ x 2.3″)	90 x 52.5 x 58 mm 90 x 70 x 58 mm (3.5" x 2.1" x 2.3") (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 Switching stabilized power supply with output vol High efficiency up to 90%. Low ripple and noise.				PS3M-54/12V: 8051 PS3M-60/24V: 8052 PS4M-85/12V: 8053 PS4M-92/24V: 8054 tage 12 or 24 V DC.				PSB-10-2		PS-30-R: 5158 Regulated out- put voltage in the range of 12-24 V.	
	回放 500% 120% 100%	迎		3.0 200 324		回 数 料	□ (d) 100 (d) 100 (d) 100 (d)	製	回			

POWER SUPPLIES analog AC & DC

BELL TRANSFORMERS











8 VA/DC 5-24 V

α ν/Δ

5-15VA

	8 VA/DC 5-24 V regulated	8 VA/24 V unregulated	8 VA AC 8 V	8 VA AC 12 V	4 V	5-15VA 8 V	12 V	
Technical parameters	ZSR-30	ZNP-10-24V	ZTR-8-8	ZTR-8-12	Z	ZTR-15-12		
Output voltage	DC 5-24 V, stabilized 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 W	8 VA/8 W	8 VA			10 VA	15 VA	
Housing	3-MODULE	3-MODULE	2-MO	DULE	3	B-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 mr	n (3.5" x 2" x 2.6")	90 x 36 x 64 mm	90 x 52 x 65 mm (3.5" x 2" x 2.6")				
Order code	8484	408	3680	3681		3928		
	Regulated output voltage in the range of DC 5-24 V.	Unregulated AC + DC output voltage.	For powering doorbells, doo	or locks, etc.				
	□ (%) □ (%) † (%) □ (%) † (%)							

DIMMERS on DIN rail









universal controlled dimmer 300 VA

staircase switch with dimming 500 VA

universal controlled dimme 2000 VA

expanding power module for DIM-6 1000 VA

		300 VA		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-MC	DULE	6-MODULE	3-MODULE	
Supply voltage (frequency)	apply voltage (frequency) AC 230 V (50 Hz)		AC 230 V (50 Hz)	AC 230 V (50 Hz)	
Dimensions	90 x 17.6 x 64 mn	n (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	
	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	The gradual increase of bright- ness, deceleration and duration of illumination can be set by po- tentiometers on the panel:	The dimmer can be controlled in several ways: with buttons, an external potentiometer, and an analog signal 0(1)-10 V or with	Expansion module for DIM-6. 8 of these modules expand the power of the DIM-6 up to 10,000 VA.	
TO A LA	eliminates the flickering of some types of energy-saving light bulbs (ESL) and LED.	 rise and falling length: 1 - 40 s light duration: 0 - 20 min brightness: 10 - 100% 	the iNELS BUS system. Power ex- pandable up to 10 kVA DIM6-3M-P modules.		

DIMMERS flush mounted

on DIN rail







3-wires (without NEUTRAL)



lighting intensity controller, controls the source directly



universal dimmer 6-channels 6x 150 VA (230 V)

Technical parameters SMR-M SMR-S LIC-1 RFDEL-76M Dimmable loads R-L-C-ESL-LED R - L - C - ESL - LED R-L-LED R-L-C-ESL-LED Output 2x MOSFET 1x triac 2x MOSFET 12x MOSFET Output loads 160 VA R: 10-300 VA, L: 10-150 VA 300 VA 6x 150 VA (230V) / 6x 75 VA (120V) Protections overheating and overload overheating and overload overheating and overload Housing 1-MODULE 6-MODULE Supply voltage (frequency) AC 230 V (50 Hz) AC 230 V (50 Hz) AC 230 V (50 Hz) 230 V (50 Hz) or AC 120 V (60 Hz) 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 2351 4493 230V: 8205 120V: 8209 The type of light source is 3-wire connection (with-It automatically maintains the intensity Universal 6-channel dimmer with an outset with a switch on the out NEUTRAL), but miniof artificial lighting in the room accordput of 900 VA. The outputs can be connect-



flush mounted



instrument panel.



mum load 10 W.









ed in parallel and multiply the power at the

CONTROLLING AND SIGNALING 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 1-MODULE (for example 2x switch, 2x signalling lights or combinations) = when compared with competitors it is saving place in a switch

Operating temperature -20 to +55°C.



Example of combinations







USS-01 + USS-03

USS-07 + USS-11









USS-13 + USS-10 USS-12 + USS-11

USS-07 + USS-00

Types of controlling and signaling units





Alternation



Switch with

central position



Switch + push

button with



Push button with

central position



Push button



Push button

	central position								
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



flashing (red)

USS-14

2489

Name

Order code



Signalling LED

flashing (blue)

USS-15













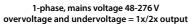
Voltage monitoring relays - overview

		_			Features			Phase Setting								
Туре	Design	Supply from	<u>*</u> 5	Phases	Monitored range	ň	ņ	n≷	Failure	Sequence	Asymmetry	Delay	Restart delay	Hysteresis	Memory	Description
HRN-31 HRN-31/2	1-M	monitored voltage	х	1	AC 48 - 276 V	•	•	•	х	х	х	•	х	•	•	All types have 9 functions in total. The delay is adjustable from
HRN-32/2	1-M	monitored voltage	x	1	AC 48 - 276 V	•	•	•	x	х	x	•	х	•	•	0 - 10 seconds (to eliminate short-term outages or peaks). The lower voltage level (Umin) is set in % of the upper level (Umax).
HRN-36 HRN-36/2	1-M	monitored voltage	х	1	DC 6 - 30 V	•	•	•	х	х	х	•	х	•	•	HRN-3x, PMR1-3x: 1x output contact HRN-3x/2, PMR1-3x/2: 2x output contact
HRN-39 HRN-39/2	1-M	monitored voltage	х	1	AC 24 - 150 V	•	•	•	х	х	x	•	х	•	•	Old types replacement: HRN-33 > HRN-31
PMR1-31 PMR1-31/2	8-PIN	monitored voltage	х	1	AC 48 - 276 V	•	•	•	х	х	х	•	x	•	•	HRN-34 > HRN-36 HRN-35 > HRN-32/2
PMR1-36 PMR1-36/2	8-PIN	monitored voltage	х	1	DC 6 - 30 V	•	•	•	х	х	х	•	x	•	•	HRN-37 > HRN-39 HRN-32/2: separated output contact for overvoltage and
PMR1-39 PMR1-39/2	8-PIN	monitored voltage	х	1	AC 24 - 150 V	•	•	•	х	х	х	•	х	•	•	undervoltage
HRN-41/UNI HRN-41/400 V	3-M	AC/DC 24-240 V AC 400 V	•	1	AC/DC 50 V AC/DC 160 V AC/DC 500 V	х	х	•	х	х	х	•	х	•	•	Second relay function (independent or parallel). Galvanically separated power supply from measuring inputs.
HRN-42/UNI HRN-42/400 V	3-M	AC/DC 24-240 V AC 400 V	•	1	AC/DC 50 V AC/DC 160 V AC/DC 500 V	х	х	•	х	х	x	•	x	•	•	 HRN-41: lower level for undervoltage (Umin) is set in % from the set upper level (Umax) HRN-42: lower level for undervoltage (Umin) is set in % of the nominal value of the selected input, as for the upper level (Umax)
HRN-55	1-M	monitored voltage	x	3	AC 3 x 300 - 500 V	х	х	• (fixed)	•	•	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	х	3	AC 3 x 172 - 287 V	х	х	• (fixed)	•	•	х	•	х	х	х	Power supply L1-N, i.e. the relay also monitors the neutral wire interruption.
HRN-57	1-M	monitored voltage	х	3	AC 3 x 300 - 500 V	х	х	•	•	х	х	•	x	х	х	Power supply from all phases, i.e. the relay function is preserved even if one phase fails.
HRN-57N	1-M	monitored voltage	x	3	AC 3 x 172 - 287 V	х	х	•	•	х	х	•	x	х	х	Power supply L1-N, i.e. the relay also monitors the neutral wire interruption, replacement for HRN-52.
HRN-54	1-M	monitored voltage	x	3	AC 3 x 300 - 500 V	x	х	•	•	•	x	•	x	х	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	x	3	AC 3 x 172 - 287 V	х	х	•	•	•	x	•	х	х	х	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/UNI HRN-43/400 V	3-M	AC/DC 24-240 V AC 400 V	•	3	AC 3 x 84 - 480 V	х	х	•	•	•	● (+ OFF)	•	x	•	•	2 output relays, functions of the second relay may be selected (independent/parallel).
HRN-43N/UNI HRN-43N/400 V	3-M	AC/DC 24-240 V AC 400 V	•	3	AC 3 x 48 - 276 V	х	x	•	•	•	● (+ OFF)	•	х	•	•	Galvanically separated power supply.
HRN-56/208 HRN-56/240 HRN-56/400	1-M	monitored voltage	x	3	AC 3 x 125 - 276 V AC 3 x 144 - 276 V AC 3 x 240 - 460 V	х	•	х	•	•	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	х	3	AC 3 x 228 - 550 V AC 3 x 345 - 660 V	х	•	х	•	•	х	•	х	х	х	operational even if one phase fails.
HRN3-70	3-M	monitored voltage	x	3	AC 3 x 190 - 500 V	x	х	• (o-fixed)	•	•	● (+ OFF)	•	•	x	•	Selectable nominal voltage from 190 to 500 V. Adjustable restart delay from 1 to 300 s. Two output contacts, changeover 16 A.
PMR3-70	8-PIN	monitored voltage	х	3	AC 3 x 190 - 500 V	х	х	• (o-fixed)	•	•	● (+ OFF)	•	•	x	•	(110% from selected range).
HRN3-80	1-M	monitored voltage	х	3	AC 3 x 208 - 480 V	x	•	х	•	•	• (+ OFF)	•	x	х	x	Selectable nominal voltage from 208 to 480 V.
HRN3-81	1-M	monitored voltage	х	3	AC 3 x 208 - 480 V	х	х	х	•	•	● (+ OFF)	•	х	х	х	Works in range from 208 to 480 V.
HRN-100	2-M	monitored voltage	х	3	U _{LL} = 3 ~ 155 - 500 V U _{LN} = 3 ~ 90 - 288 V	•	•	•	•	•	•	•	•	•	•	Configurable 3 or 4-wire connection. Extensive setting options. Each output can be configured individually.

^{*} Galvanically isolated suppy from monitored inputs









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



1-phase, mains voltage 24-150 V overvoltage and undervoltage = 1x/2x output

Technical parameters	HRN-31 HRN-31/2 PMR1-31 PMR1-31/2		HRN-32/2	HRN-39 HRN-39/2	PMR1-39 PMR1-39/2	
Type of monitored voltage	AC/	DC	AC/DC	AC/DC		
Monitored levels	multifu	nction	multifunction	multifu	unction	
Functions			nine, selectable by rotary switch			
Monitoring range	48-2	76 V	48-276 V	24-	150 V	
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	1x CO, 16 A 2x CO, 16 A	
Housing	1-MODULE	PLUG-IN (8-pin)	1-MODULE	1-MODULE	PLUG-IN (8-pin)	
Power supply			from monitored voltage			
Dimensions	48 x 48 x 79 mm ((1.9″ x 1.9″ x 3.15″)	90 x 17.6 x 64 mm (3.5" x 0.7" x 2.5")	48 x 48 x 79 mm	(1.9″ x 1.9″ x 3.15″)	
Order code	8494 8438	8865 8536	8539	8496 8493	8868 8869	
	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.	voltage.	overvoltage and unders to eliminate short-term	
8-pin octal socket						

VOLTAGE RELAYS 1-phase, DC







1-phase, AC or DC



DC voltage 6-30 V batteries and accumulators

monitoring in 1-phase network

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

	= 1x/2x output		% of set Umax	% of nominal input	
Technical parameters	HRN-36 HRN-36/2	PMR1-36 PMR1-36/2	HRN-41	HRN-42	
Type of monitored voltage	D	С	AC/DC		
Monitored levels	multifu	unction	undervoltage a	and overvoltage	
Functions	nine, selectable	by rotary switch	0	ne	
Monitored 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	1x CO, 16 A 2x CO, 16 A	2x C0	D, 16 A	
Housing	1-MODULE	PLUG-IN, into 8-pin octal socket	3-MC	DDULE	
Power supply	from monito	ored voltage	AC/DC 24-240 V, AC 400 V		
Dimensions	90 x 17.6 x 64 mm (3.5" x 0.7" x 2.5")	48 x 48 x 79 mm (1.9" x 1.9" x 3.15")	90 x 52 x 65 mm (3.5" x 2" x 2.6")		
	HRN-36: 8495 HRN-36/2: 8255	PMR1-36: 8866 PMR1-36/2: 8867	HRN-41/UNI: 8529	HRN-42/UNI: 8530 HRN-42/400 V: 4726	
	1x output contact for overvoltage a Adjustable delay 0 - 10 s to elimina peaks in the network.		Independent supply voltage galvanically separated from the measured one, optional function of the 2nd relay, optional hysteresis 5% / 10%, Memory function.		
			面粉/面		

















3 x 300-500 V 3 x 172-287 V without NEUTRAL with NEUTRAL

3 x 300-500 V

3 x 172-287 V

3 x 300-500 V

3 x 172-287 V 3 x 48 -276 V without NEUTRAL with NEUTRAL without NEUTRAL with NEUTRAL with NEUTRAL

Technical parameters	HRN-55	HRN-55N	HRN-57	HRN-57N	HRN-54	HRN-54N	HRN-43	HRN-43N
Phase failure	•	•	•	•	•	•	•	•
Phase sequence	•	•	х	х	•	•	•	•
Adjustable overvoltage	x (fixed)	x (fixed)	•	•	•	•	•	•
Adjustable undervoltage	x (fixed)	x (fixed)	•	•	•	•	•	•
Asymmetry	х	х	х	х	х	х	•	•
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
Output		1x CO, 8 A						
Housing		1-MODULE 3-MODULE						
Power supply			from monito	ored voltage			AC/DC 24-24	10 V, AC 400 V
Dimensions			90 x 17.6 x 64 mm	n (3.5″ x 0.7″ x 2.5″)			90 x 52 x 65 mn	n (3.5″ x 2″ x 2.6″)
Order code	7512	7513	7514	A 7515	7498	7511	UNI: 8531 400 V: 4730	UNI: 8532 400 V: 4734
							□ 3 \10 (4.00 (2.00)	

VOLTAGE RELAYS 3-phases















3 x 125-276 V

3 x 144-276 V

monitors 3 phases (without NEUTRAL) with adjustable undervoltage level 3 x 240-460 V

voltage/frequency 3 x 345-660 V 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	•	•	•	•	•	•
Adjustable overvoltage	х	х	х	x	x	•
Adjustable undervoltage	•	•	•	•	•	•
Asymmetry	х	х	х	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	$U_{LL} = 3 \sim 155-500 \text{ V}$ $U_{LN} = 3 \sim 90-288 \text{ V}$
Output			1x CO, 8 A			2x CO, 5 A
Housing		1-MODULE		3-M0	2-MODULE	
Power supply			from monito	ored voltage		
Dimensions		90 x 17.6 x 64 mm (3.5" x 0.7" x 2.5")			x 65 mm 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
		m:sm				











(without neutral)





selectable range 208-480 V (without neutral)

Technical parameters	HRN3-70	PMR3-70	HRN3-80	HRN3-81
Phase failure	•	•	•	•
Phase sequence	•	•	•	•
Adjustable overvoltage	x (fixed)	x (fixed)	x	х
Adjustable undervoltage	•	•	•	x
Asymmetry	● (+OFF)	● (+OFF)	• (+OFF)	● (+OFF)
Monitored range	190-500 V	190-500 V	208-480 V	208-480 V
Output	2x CO, 16 A	2x CO, 16 A	1x CO, 16 A	1x CO, 16 A
Housing	3-MODULE	PLUG-IN, into 8-pin octal socket	1-MODULE	1-MODULE
Power supply		from monito	ored voltage	
Dimensions	90 x 52 x 65 mm (3.5" x 2" x 2.6")	48 x 48 x 79 mm (1.9" x 1.9" x 3.1")	90 x 17.6 x 64 mm	n (3.5″ x 0.7″ x 2.5″)
Order code	8883	A 8528	8881	8882
	Selectable nominal voltage from 1901 1 to 300 s. Two output contacts, chan	to 500 V. Adjustable restart delay from geover 16 A.	Selectable nominal voltage from 208 to 480 V.	Works in range from 208 to 480 V.

SPECIAL RELAYS signalization

power factor

frequency







optical signalization

of 3-phase network (with NEUTRAL)





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 colored LED: ange yellow: 50-207 V, green: 207-265 V, COS φ 0.1-0.99 red: 265-276 V		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 (AC 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 frequer cy of AC voltage, eg in photovoltaic power plant and generators.		







of the conductor through the hole

in the front panel





using a connected current transformer X/5 A



on measuring terminals in 7 ranges



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

Technical parameters	PRI-32	PRI-35	PRI-51	PRI-52				
Voltage type	AC	AC	AC	AC				
Monitored levels	overcurrent	undercurrent	overcurrent	overcurrent				
Monitored range	1 - 20 A (50-60 Hz)	0.5-5 A (50-60 Hz)	0.05 - 16 A (50-60 Hz) in 7 ranges	0.5 - 25 A (50-60 Hz)				
Output	1x CO, 8 A	1x CO, 16 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")					
	PRI-32: 8278 Monitor current level in single-phase AC circuits. The device has also in-built current transformer on the front panel.	PRI-35: 8271 Serves to protect a motor of a pump (submersible pump) against dry running.	Choose from 7 ranges: 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)	PRI-52: 3655 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.				

CURRENT RELAYS 1-phase, AC

1-phase, AC & DC

3-phase, AC











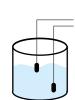
multifunction current monitoring, 8 functions selectable

with three input ranges for AC/DC current

monitors overcurrent or undercurrent in 3-phases circuits

	by rotary switch	% of set imax % of nominal input		2x output contacts		
Technical parameters	PRI-34	PRI-41 PRI-42		PRI-53		
Voltage type	AC	AC.	/ DC	A	С	
Monitored levels	multifunction	overcurrent an	d undercurrent	overcurrent or	undercurrent	
Function	eight, selectable by rotary switch	O	ne	tw	10	
Monitored range	0.1 - 16 A (50-60 Hz) in 5 ranges	3 inputs: 0.32-1.6 A, 1-5	A, 3.2-16 A (AC 50-60 Hz)	0.4-1,2 A (50-60 Hz)	2-6 A (50-60 Hz)	
Output	1x CO, 16 A	2x CO, 16 A		2x CC), 8 A	
Housing	1-MODULE	3-MODULE		6-MODULE		
Power supply	AC/DC 24 - 240 V (AC 50-60 Hz)	AC/DC 24-240 V (AC 50-60 Hz)		AC/DC 24 - 240	AC/DC 24 - 240 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 mn	n (3.5" x 2" x 2.6")	90 x 105 x 64 mm (3.5" x 4.1" x 2.6")		
Order code	1A: 8896, 2A: 8282, 5A: 8283, 8A: 8897, 16A: 8284	UNI: 8534	UNI: 8535	4213	4214	
	Measures true root mean square value - TRUE RMS. Option to select functions with error state memory (Latch). Possibility to extend the current range using an external CT. Power supply and monitoring circuits are not galvanically separated.	Independent supply voltage galvanically separated from the measured one, optional function of the 2nd relay, optional hysteresis 5% / 10%, Memory function.		AC/DC 24-240 V power supply galvanically separated from the circuit of the monitored current. Selectable function: UNDER or OVER current. 2 types according to the rated current In (1A, 5A).		
		回答(B 23% 23% 回答(\$5	回於(B) (2)(5)(A) (B)(3)(B)	回: [2] [2] [3]		

LIQUID LEVEL RELAYS













	for monitoring one or two levels	for monitoring one or two levels in IP65 protection	for monitoring one or two levels, or pumping of tanks	for monitoring up to 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	
Functions	2	2	8	10	
Housing	1-MODULE	BOX	3-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 50-60 Hz)	
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.	

LIQUID LEVEL RELAYS LIQUID LEVEL SETS





set of HRH-5 relay and contactor



	for controlling 5-levels in IP65 protection				
Technical parameters	HRH-6/DC	HRH-6/AC			
Output	1x NC), 10 A			
Sensitivity	10 - 2	00 kΩ			
Functions	:	2			
Housing	box IP65				
Supply voltage (frequency)	DC 12-24 V	AC 230 V (AC 50-60 Hz)			
Dimensions	110 x 130 x 72 mm	n (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 fron panel of the device.				

HRH-4/230V 209970800023

It is a complete unit consisting of HRH-5 level relay and VS425 contactor.

HRH-4

Designated for an automatic operation in 1-phased and 3-phased pumps.



HRH-5







PROBES AND CABLES





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

D05V-K

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,

D05V-K 0.75/3.2: 6594

Wire for probes SHR-1 and SHR-2, $1x 0.75 \text{ mm}^2$

All types (excluding SHR-3) meet the requirements for continuous contact with a drinking







thermostats





temperature

digital					
with build					
in time curitch					

										of motor winding	in time switch
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 range	-30 10°C	040°C	30 70°C	060°C	060°C	-15 45°C	060°C	060°C	-40 110°C	1.8 - 3.3 kΩ	-40 110°C
Thermosensor type			externa	I, TC/TZ			built-in	Pt100	external, TC/TZ	external, PTC	external, TC/TZ
Output				1x NO,	16 A				2x CO, 16 A	2x CO, 8 A	2x CO, 8 A
Housing				1-MOE	ULE				3-MODULE	1-MODULE	2-MODULE
Supply voltage (frequency)		AC/DC 24-240 V (AC 50-60 Hz)					AC/DC 24-240 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")		
	TER-3A 3839 TER-3B 3840 TER-3F: 3844 TER-3C 3841 TER-3D: 3842 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-4/UNI: 8533 Double thermostat for monitoring and regulating the temperature. 2 inputs for TC/TZ sensor. Galvanically isolated power supply.	TER-7: 3716 It monitors motor winding temperature. PTC sensor built-in in motor winding is used as a sensing element.	TER-9/230V: 4698 TER-9/24V: 4699 Digital thermostat with 6 functions.				
Temperature sensors TC/TZ/PT100 more on page 23											

THERMOSTATS with IP65 protection





two-level thermostat

in IP65 protection



single-level thermostat

in IP65 protection





single-level thermostat single-level thermostat for outdoor in IP65 protection use with IP65 protection

Technical parameters	TEV-1	TEV-2	TEV-3	TEV-4			
Monitored range	-20 +20°C	-20 +20°C	+5 +35°C	-30 +60 °C			
Thermosensor type		external TC/TZ		built-in			
Output		1x CO, 16 A					
Housing		enclosure IP65					
Supply voltage (frequency)		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			
	Window function = monitors temperature between two set levels	Transparent cover to see setting and wiring.	Selectable function: cooling/ heating. Setting of the monitored tem- perature on enclosure	Selectable function: cooling/ heating. Option of voltage or potential - free contact			









THERMOSTATS, HYGROSTATS











programmable multifunction multifunction thermostat chronothermostat

hygrothermostat optional functions

Technical parameters	21235	21236	RHT-1	RHV-1
Monitored temperature range	-9 +35°C	-9 +35°C	0 +60°C	-
Monitored humidity range	-	-	50 - 90°C	0 - 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	8208	8207
	Allows you to manually or auto- matically 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 5090 %. 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











for range -20 .. +80°C PVC insulation

TC





ΤZ

NTC thermistor 12 k Ω .

TZ-0: 209970800014

and 12 m.



silicone insulation

for range -30 .. +200°C double silicone insulation

Pt100

ATV-1: 6088
This energy-saving digital radiator thermo-valve is a
programmable regulation

ATV-1

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

TELVA-2

Thermodriver Telva-2 is a

Design:

suitable control unit for a wide range of thermostatic valves. Visual indicator of valve position.

NO - without voltage open NC - without voltage closed

NTC thermistor 12 k Ω . 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-3: 209970800015 **TZ-6:** 209970800016 **TZ-12:** 209970800017

PTC sensor. 4 cable lenghts: 11 cm, 3 m, 6 m 3 cable lenghts: $3\,\text{m}$, $6\,\text{m}$ and $12\,\text{m}$.

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









WIRELESS ELECTRO-INSTALLATION





















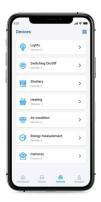
























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	٣	٥	

control up to 40 units.

Provides the ability to

divide elements into

Rooms, Favourites or

Scenes.

L □ GUS [®]	On-wall button 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 batter	ry CR 2032	2x 3 V batte	ries CR 2032	2x 3 V batte	eries CR 2032	
Design	LOG	iUS ⁹⁰	glass -	sharp	glass -	round	
Colour	in LOGUS ⁹⁰	o variations	W - white	, B - black	W - white	, B - black	
Dimensions	85 x 85 x	85 x 85 x 16 mm 94 x 94 x 8 mm			100 x 100 x 8 mm		
Protocol	PRO	PROG			RFIO2		
Order code	8502	8489	20/B: 8512 20/W: 8513	40/B: 8488 40/W: 8514	220/B: 8518 220/W: 8517	240/B: 8516 240/W: 8515	
Wireless controller in LOGUS® design. Standard BASE design (white plastic), but can glass, wood, metal or stone in the frame design		c), but can be combined with	RFGB-20/B: 2-bu RFGB-40/B: 4-bu RFGB-20/W: 2-bu RFGB-40/W: 4-bu Glass touch contr buttons, in black of sharp edges.	ttons, black glass uttons, white glass uttons, white glass collers with 2 or 4		uttons, black glass uttons, white glass	
6 mm 8 mm 8 mm B-20/40G RFGB-20/40 RFGB-220/240							

	with relays	with dimmer	outdoor	key fo	ob			pilot	
4	Glass touch controller with output relays	Glass controller with dimmer SHARP edges	Outdoor 2-buttons controller	Key fob- black	4 buttons white	Key fob- black	6 buttons white	Controller	with display white
Technical parameters	RFSW-62 262	RFDW-71 271	RFOWB-20	RF K	EY-40	RF KE	Y-60	RF P	ILOT
Number of channels	4	4	2		4	6		4	0
Power supply	230 V AC / 50-60 Hz	AC 230 V or 120 V AC	3 V battery CR 2032		3 V batter	CR 2032		2x batteries 1	.5 V AAA/R03
Design	glass sharp / round	glass sharp / round	IP65		key	fob		remote o	ontroller
Colour	W - white, B - black	W - white, B - black	white	B - black	W - white	B - black	W - white	A - anthracit	W - white
Dimensions	94 x 94 x 41mm	94 x 94 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		RFIC	2		RF	10
Order code	62/B: 8870 262/B: 8890 62/W: 8891 262/W: 8892	71/B: 8824 271/B: 8893 71/W: 8894 271/W: 8895	8147	8503	8504	8490	8505	4516	4376
SHARP	Possibility to set the memory of the output	Glass controller with in- tegrated dimmer R - L -	Wireless push but- ton controller with		er in the size and white co			Remote cor OLED displa	

IP65 protection de-

signed for outdoor

and humid environ-

ments.

allows you to control an unlimited num-

ber of units.

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 installa-

tion box.

state during a power

failure and subsequent

restoration of the pow-

er supply.

_____ 25 mm

RFDW-71













Screwless terminals	
for faster wiring	

1-channel

SWITCHES flush mounted

Multifunction

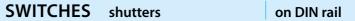
Single function 1-channel

Multifunction switching units with inputs for external buttons 1-channel 1-channel

2-channels

Lighting control unit with detectors

Technical parameters	RFSA-61B	RFSAI-11B-SL	RFSAI-61B-SL	RFSAI-61BPF-SL	RFSAI-62B-SL	RFSAI-161B		
Output	1x NO, 8 A	1x NO, 8 A	1x NO, 8 A	1x NO, 8 A	2x NO, 8 A	1x NO, 12A AC1		
Supply voltage (frequency)		AC 230 V (50-60 Hz)						
Design	BOX		BO	X-SL		BOX		
Dimensions	49 x 49 x 21 mm		43 x 44	x 22 mm		49 x 49 x 21 mm		
Protocol			RF	102				
Order code	4995	8375	8204	8910	8201	4934		
The state of the s	• 6 functions • 1 output	• switch on/off • 1 output	6 functions 1 output contact 8A 1 input for external button	6 ftasotjórhsfunkcí 1 orjátpupt&éntact 8A 1 inspup fjorceszternál tlátútkon galvanically separatec	6 time functions 2x output contacts 8A 2 inputs for wired buttons	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.		
BOX-SL flush mounted		□ ※ □ ※ 付 ○ ○ ※						











Switch unit

with external input

Multifunction 1-channel

Multifunction 6-channels

Fancoil controller 6-channels

HRESK

Technical parameters	RFJA-32B-SL	RFSA-61MI RFSA-61M	RFSA-66MI RFSA-66M	RFSA-166M
Output	2x NO, 8 A	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)	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-SL	1-MODULE	3-MODULE	3-MODULE
Dimensions	43 x 44 x 22 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





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

RFSA-61M: 7721 MI - integrated antenna M - SMA connector for external

RFSA-61MI: 8154

antenna. AN-I antenna is part of the unit.

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

age.

RFSA-66MI/24V: 8156

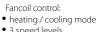
RFSA-66M/24V: 5291

RFSA-66MI/110-230V: 8906

RFSA-66M/110-230V: 8905







• 3 speed levels

RFSA-166M/230V: 3432

The last channel can be switched by any appliance (e.g. lights). It is controlled by the RFTC-150/G

It can have detectors in front (window / door openers (RFWD-



MODULE on DIN rail





Analog

controller



Universal







DALI controller 4 addresses 32 addresses



dimmer



(RGB strips)



-	ш	-	Ц	
	Uni	ivers	al	
	dir	mme	er	
	6x 1	۱50 ا	VA	

	0(1) - 10V	1x 300 VA			1x 600	O VA	3-channels	6x 15	60 VA
Technical parameters	RFDAC-71B	RFDEL-71B-SL	RFDALI-04B-SL	RFDALI-32B-SL	RFDE	L-71M	RFDA-73M/RGB	RFDEL	76M
Output	0(1) - 10 V contact 16 A	R-L-C-LED-ESL 160 VA	4x DALI units	32x DALI units	R - L - C - 600 VA	LED - ESL 300 VA	3x 5 A	R - L - C - I 6x 150 VA	LED - ESL 6x 75 VA
Supply voltage (frequency)	AC 110-230 V (50-60 Hz)	AC 230 V (50 Hz)	100-230 V (50 Hz)		AC 230 V (50 Hz)	AC 120 V (60 Hz)	DC 12-24 V stabilized	AC 230 V (50 Hz)	AC 120 (60 Hz)
Design	BOX	BOX-SL				3-MODULE		6-MODULE	
Dimensions	49 x 49 x 21 mm		43 x 44 x 22 mm			90 x 52 x	65 mm	90 x 105 >	65 mm
Protocol		RFIC)2			RFIO2			102
Order code	4993	8361	8527	8434	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		As version 718", but designed for exter trol by	DIN rail I inputs nal con- potenti-	The dimmer for LED strips is used for independent control of 3 single-colour LED strips or one RGB LED strip.	Universal six-ch with an outpu VA channel. The connected in p tiply the power of the number	t of 150 VA / 7 outputs can be parallel and mu r at the expens	

建	

last light.





switching







to 900 VA / 230 V) when con-

SOCKETS dimming



brightness, input

for wired button.





Switching socket-plug



Switching unit for outdoor use

	. ,	, ,	
Technical parameters	RFDSC-71N	RFSC-61N	RFUS-61
Type of load	R - L - C - LED - ESL max. 300 W/150 W	1x NO, 16 A/AC	1x CO, 12 A/AC1
Supply voltage (frequency)	AC 230 V (50-60 Hz)	AC 230-250 V (50-60 Hz)	AC 230 V (50-60 Hz)
Design	socket-plug	socket-plug	IP65
Dimensions	63 x 110 x 74 mm	63 x 110 x 74 mm	136 x 62 x 34 mm
Protocol	RFIO2	RFIO2	RFIO2
			DELIS_61/120V: 5256



French: 8359



Schuko: 8360



British: 8358







Schuko: 8250







Switching component with 1 output channel in a box with increased coverage for outdoor environments.





DETECTORS



Flood







Level switch

Twilight

Magnetic (Window/door)

Motion

Technical parameters	RFSF-1B	RFSF-100	RFSOU-1	RFWD-100	RFMD-100
Battery power	1x 3 V battery CR 2477	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	BOX	disc box	IP65	interior	interior
Dimensions	49 x 49 x 13 mm	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	RFIO	RFIO2	RFIO	RFIO2	RFIO2
Order code	4860	7682	4707	5027	5029
External probe designed for Level sensor RFSF-1B for flood monitoring. 1 m	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.	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.
cable can be extended by 30 m.		回城(B) 第26条 同数数			

DRY CONTACTS CONVERTERS



4 contacts converter

battery powered



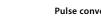


4 contacts converter

AC 230 V powered







1 contact converter
- permanent switching

Pulse converter

Technical parameters	RFIM-40B/BP-SL	RFIM-40B/230-SL	RFSG-1M	RFTM-1
Battery power	batterie CR2032	AC 230V (50-60 Hz)	AC 10-230 V (50-60 Hz)	2x 1.5 batteries AAA
Design	BOX-SL	BOX-SL	1-MODULE	BOX
Dimensions	43 x 44 x 22 mm	43 x 44 x 22 mm	90 x 17.6 x 64 mm	72 x 62 x 34 mm
Protocol	RFIO2	RFIO2	RFIO2	RFIO
Order code	8406	8407	8240	4315

Converts 4 potential-free inputs that can be closed for a short time (buttons) or permanently (switch, contact) on the

RFIM-40B / BP-SL: battery supply (CR 123A) RFIM-40B / 230-SL: mains supply (AC 230V) 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.

Allows conversion of pulses produced by energy meters. Via LS sensors (detects flashing LEDs on the meter) or MS (magnetic sensor for water meter handle or gas meter dial). It has a terminal for connecting the pulse output (open contact, S0 terminals of the electricity











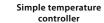






Covers:

Al - aluminium



Autonomous temperature controller

Thermostat for fancoil control via RFSA-166M



GE - ice

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	RFTC-50/G/BR	RFTC-150/G/BR		



RFTC-10/G: design BASE, white cover, white frame, order code: RFTC-10/G/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 \pm 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

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 LOGUS⁹⁰ frames.













PE - pearl

TEMPERATURE CONTROL sensors and actuators

Compatibility control









Switching unit with temperature sensor

Temperature sensor

Overheating/overcooling switch unit with advanced functions

Most suitable for hotel rooms.

The components support com-

munication with RF detectors.

Range 160 m.

Wireless thermal head

RFSTI-11B-SL	RFTI-10B RFSTI-111B		RFATV-2	
AC 230 V	1x 3 V battery CR 2477	AC 230 V (50-60 Hz)		battery 2x 1,5 V AA
BOX-SL	вох			thread on the valve
43 x 44 x 22 mm	49 x 49 x 13 mm	49 x 49 x 21 mm		52 x 52 x 70 mm
RFIO2	RFIO	RF	102	RFIO2
8404	3175	4915	3409	8259
	AC 230 V BOX-SL 43 x 44 x 22 mm RFIO2	AC 230 V 1x 3 V battery CR 2477 BOX-SL BOX-SL 49 x 49 x 13 mm RFIO2 RFIO	AC 230 V 1x 3 V battery CR 2477 AC 2 (50-6) BOX-SL BOX 43 x 44 x 22 mm 49 x 49 x 13 mm 49 x 49 RFIO2 RFIO RF	AC 230 V 1x 3 V battery CR 2477 AC 230 V (50-60 Hz) BOX-SL BOX 43 x 44 x 22 mm 49 x 49 x 13 mm 49 x 49 x 21 mm RFIO2 RFIO RFIO2



TC/TZ

more on page 23



contact) with input for external

temperature thermosensors TC /

TZ. It can be combined with units:

sensor measures the tempera-

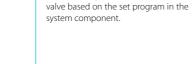
ture in the range -20 to + 50 $^{\circ}\text{C}$

and sends it to the system device

(eLAN-RF or RF-Touch) at regular

intervals (5 min).







The wireless thermal head measures

the room temperature with an internal

sensor, and opens / closes the radiator

SYSTEM UNITS









Wireless touch unit on the wall

Wireless touch unit flush mounted (eLAN-RF included)

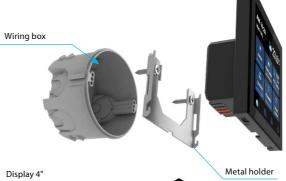
Smart RF Gateway with LAN

Repeater (socket-plug)

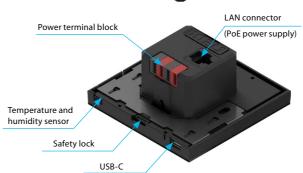
Technical parameters	RF Touch-W	RF Touch-2/B	eLAN-RF-103	RFRP-20N
Number of connectable components*	40	70	70	20
Supply voltage (frequency)	AC 100–230 V (50-60 Hz) or 12 V DC adapter	24 V DC (terminals) USB-C (external adapter) PoE (through LAN)	adapter 5V DC / 1A	AC 230 V (50-60 Hz)
Design	on the wall	flush mounted	aluminum box	socket-plug
Dimensions	94 x 94 x 24 mm	86 x 86 x 10 (37)mm	90 x 52 x 65 mm	63 x 110 x 74 mm
Protocol		RF	102	
Order code	5174	8266	8044	French: 8423 Schuko: 8424 British: 8425
* allow to control the units independently	It includes simple automation functions, such as temperature and time programs, control of RGB strips and light bulbs, quick control and more.	Like RF Touch-B with new display (diagonal 4", 480x480 px, multi touch). Communication: iNELS radio, wi-fi and LAN. Including eLAN-RF for direct or indirect (iNELS Cloud) control from iNELS app.	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: eLAN-RF-103: LAN communication	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.
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Device description

Screen preview





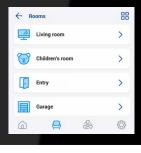














ACCESSORIES



Service Key



Internal antenna with SMA connector

AN-I



External antenna with magnetic base

AN-E



External antenna with magnetic base and IP67 protection

AN-E3



RFAF/USB

RFSAF/USB: 4503

The RFAF / USB Service Key (in conjunction with the RF_analyzer) is designed for iNELS RF

AN-I: 6180

Polarization: vertical Gain: 2.1 dBi Dimensions: 17 x 44 x 8,5 mm Impedance: 50Ω Control system partners. Colour: black



AN-E: 209930606056

Cable length: 3 m Polarization: vertical Gain: 5 dBi Impedance: 50Ω 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

Extension cable

SMA connectors (male/female) Cable length: 10 m Colour: white

EC-10: 8191







SMART KITS preprogrammed for easy installation

WIRELESS SWITCH



WIRELESS SWITCH - LUXURY

- Glass touch controller - SHARP design, white
- Switch unit with ON / OFF function (for lights, sockets, electric heating, gates,...)



2 WIRELESS SWITCHES - CLASSIC

- On-wall button controllers duo - plastic, white
- 2 pcs switching unit with ON / OFF function (for lights, sockets, electric heating, gates,...)



2 WIRELESS SWITCHES WITH KEY-FOB

- · Pocket wireless controller - 4-button, white
- 2 pcs switching unit with ON / OFF function (for lights, sockets, electric heating, gates....)



WIRELESS SWITCH **SOCKET - LUXURY**

- · Glass touch controller - ROUND design, black
- · Wireless switch socket-plug



WIRELESS SWITCH SOCKET - CLASSIC

- On-wall button controllers
- · Wireless switch socket-plug

DIMMERS KITS



WIRELESS LIGHT **DIMMER - LUXURY**

- Glass touch controller -4-button, ROUND design,
- · Universal dimmer for light source control (R, L, C, ESL,



2 WIRELESS LIGHT **DIMMERS - LUXURY**

- · Glass touch controller - 4-button, SHARP design,
- · 2 pcs universal dimmer for light source control (R, L, C, ESL, LED)



2 WIRELESS LIGHT **DIMMERS - CLASSIC**

- On-wall button controllers duo - plastic, white
- 2 pcs universal dimmer for light source control (R. L. C. ESL, LED)



WIRELESS LIGHT **DIMMER - LUXURY**

- 4-button, SHARP design,
- · Universal dimmer for light source control (R, L, C, ESL,



WIRELESS DIMMING **SOCKET - LUXURY**

- 4-button, ROUND design,
- Wireless dimmable socket-plug





WIRED ELECTRO-INSTALLATIONS INELS BUS





Central unit with 1x BUS, 1x EBM



Central unit with 2x BUS

CU3-08M



Central unit with 1x BUS, 1x DALI

CU3-09M/DALI



Central unit with 1x BUS, 1x MODBUS

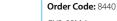
CU3-10M

CU3-07M

Order Code: 8010

Cu3-07M is one of the basic system control units of iNELS BUS installations. The unit can work independently, as an autonomous project, or it can be controlled by the cental software or MQTT as part of a larger project.

The unit is equipped with one BUS to The unit is equipped with two BUS, which it is possible to connect up to 32 to which it is possible to connect elements from the iNELS BUS portfolio. Ethernet connector is used for iNELS app or cloud communication or for communication with the superior unit app or cloud communication or for within the iNELS IP topology. The central unit is implemented with MQTT protocol for 3rd party communication.



CU3-08M is one of the basic system control units of iNELS BUS installations. The unit can work independently, as an autonomous project, or it can be controlled by the cental software or MQTT as part of a larger project.

a total of up to 64 elements (2x32) from the iNELS BUS portfolio.

Ethernet connector is used for iNELS communication with the superior unit within the iNELS IP topology. The central unit is implemented with MQTT protocol for 3rd party communication.



Order Code: 8465

CU3-09M/DALI is a special version of the minified central unit and is designed to control DALL electronic ballasts from the iNFLS system. The unit can work independently, as an autonomous project, or it can be controlled by the cental software or MQTT as part of a

larger project. The system unit is equipped with one BUS, one DALI bus and one RJ45 connector.

The DALI system bus allows the control of up to 64 independent DALI ballast addresses for fluorescent, LFD and other luminaires.

Ethernet connector is used for iNELS app or cloud communication or for communication with the superior unit within the iNELS IP topology. The central unit is implemented with MQTT protocol for 3rd party communication.



Order Code: 8521

CU3-10M is one of the basic system control units of iNELS BUS istallations. The unit can work independently, as an autonomous project, or it can be controlled by the cental software or MQTT as part of a larger project.

The unit is equipped with one BUS to swich it is possible to connect up to 32 elements from the iNELS BUS portfolio. The CU3-10M system unit is equipped with one Modbus system bus. The Modbus system bus allows control of modbus termostat and Air condition units

Ethernet connector is used for iNELS app or cloud communication or for communication with the superior unit within the iNELS IP topology. The central unit is implemented with MQTT protocol for 3rd party com-



SYSTEM UNITS



Power supply 30 W with BUS



Power supplies for iNFLS BUS



BUS separator from



BUS separator from power supply

	separator					
Technical parameters	PS3-30/iNELS	PSM3-30/iNELS, PSM3-60/iNELS, PSM3-100/iNELS			BPS3-01M	BPS3-02M
Output	27 V / 1A	27 V DC			1x BUS	2x BUS
Supply voltage (frequency)	100-250 V AC (50-60 Hz)	AC 100 - 240 V (50-60 Hz)			BUS 2	7 V DC
Rated current	-	30 W	60 W	92 W	8 mA (at 27 V DC)	15 mA (at 27 V DC)
Dimensions	90 x 52 x 65 mm	90 x 35 x 58 mm	90 x 52.5 x 58 mm	90 x 70 x 58 mm	90 x 17.6	x 64 mm
Order code	8011	8476 8477 8478			3244	3243
	Power 30 W, integrated bus sepa-	Used to supply central units and external master within intelligent electroinstallation iNELS.			This separator serve for impedar voltage power.	nce separation of BUS from supply



rator BPS3-01M.





Through BUS separators from the supply voltage BPS3-

-01M and BPS3-02M, it supplies BUS lines from which

iNELS peripheral units are also powered.





with max, load 1 A for each line.



BPS3-01M: allows you to connect one BUS with max. load 3 A.

BPS3-02M: allows you to connect two separate BUS1 and BUS2

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 / 32 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.		
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CONVERTERS



Analog - digital converter 6 inputs



Digital - analog converter 4 inputs

Technical parameters	ADC3-60M	DAC3-04M
Output	-	4x 0(1) - 10 V / 10 mA
Input	1x temperature, 6x analog.; 0-10 V; 0-20 mA 1x temperature	
Supply voltage	BUS 27 V DC	BUS 27 V DC
Rated current from BUS	100 mA (at 27 V DC)	50 mA (at 27 V DC)
Housing	3-MODULE	3-MODULE
Dimensions	90 x 52 x 65 mm	90 x 52 x 65 mm
Order code	3301	3256

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.















	Switching actuator 1-channel	Switching actuator 2-channels	Switching actuator 4-channels			actuator innels
Technical parameters	SA3-01B	SA3-02B	SA3-04M	SA3-06M	SA3-0)12M
Number of contacts	1x NO, 16 A	2x CO, 8 A	4x CO, 16 A	6x CO, 8 A	12x N	O, 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	ВС	OX	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-channels switchir pliances, e.g. lighting, thermo perature input TC / TZ.		4-channel switching actuator for switching appliances & controlling blinds, 4x changeover contact 16A, LED signalling of relay status, manual control.	6-channel switching actu- ator for switching app- liances, lighting and thermo drives, 6x changeover con- tact 8 A, LED signalling of relay status, manual control.	12-channel swi forswitchingapy and thermo driv contact 8 A, LED lay status, manu	oliances, lighting es, 12x switching signalling of re-
					回(透	

SWITCHING ACTUATORS











Switching actuator, 22 channels

or shutters.

Switching actuator, 22-channels without control and indication

or shutters.

Roller shutter (blind) actuator, 2-channels (1 controller)

Roller shutter (blind) actuator, 18-channels

		components	(1 controller)	(9 controllers)
Technical parameters	SA3-022M	EA3-022M	JA3-02B/DC	JA3-018M
Number of contacts	20x NO + 1x CO with blocking (for shutters)	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)	according to the output (6 A/10 A)	0.85 A	4 A/AC15
Switching output	according to the output	according to the output	-	1000 VA
Supply voltage (frequency)	27 V DC, -20/+10 %	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)	100 mA (at 27 V DC)	60 mA (at 27 V DC)	5 mA (at 27 V DC)
Housing	6-MODULE	6-MODULE	BOX	6-MODULE
Dimensions	90 x 105 x 65 mm	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	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	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 for RGBW strips

Dimming actuator 2-channels

Dimming actuator 6-channels

Dimming actuator for electronic ballasts 2-channels

Technical parameters	DA3-03M/RGBW	DA3-22M		DA3-6	LBC3-02M	
Output	LED strip 12 V, 24 V, 48 V; RGBW LED strip 12 V, 24 V, 48 V	load R - L - C - LED - ESL 2x 400 VA (230 V) / 200 VA (120 V)		load 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, 1	x temperature	6x wire b	uttons	-
Supply voltage (frequency)	27 V DC, -20/+10 %	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)	5 mA (at 27 V DC)		100 mA (at 27 V DC)		60 mA (at 27 V DC)
Housing	3-MODULE	3-MODULE		6-MODULE		3-MODULE
Dimensions	90 x 52 x 65 mm	90x52x6	55 mm	90 x 105 x 65 mm		90 x 52 x 65 mm
Order code	8463	3262	3303	8206 7445		3268
	The dimmer for LED strips is used for independent control of 12 channels, so it can be connected to, for example: 3 RGBW led strips, 3 RGB led strips + 2 single colour strips, 12 single colour LED strips	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.

INPUT UNITS













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 T	C/TZ	-	TC, TZ, Ni1000, Pt1000, Pt100	TC, TZ, Ni1000, Pt1000, Pt100
Supply voltage	BUS 2	7 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)	25 mA (at 27 V DC) 20 mA (at 27 V DC)	
Housing	вох		3-MODULE	3-MODULE BOX	
Dimensions	49 x 49 x	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 12VDC/ 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 connect- ing 6x temperature sensors TC, TZ, Ni1000, PT1000 or PT100.













Room controller with DALI dimmer



Combined actuator 10 inputs, 8 outputs



Fan coil control actuator

Technical parameters	RC3-610M/DALI	IOU3-108M	FA3-612M
Output	8x NO contacts (10 A), 2x analog (0-10 V), 16 DALI adress, DIN-4	8x switching, 10 A	4x (0)-10V, 4x switching, 4x SSR
Input	6x digital (NO/NC)	1x temperature, 8x digital	3x analog, 3x digital
Supply voltage	BUS 27 V DC	BUS 27 V DC	BUS 27 V DC
Rated current from BUS	110 mA (at 27 V DC)	110 mA (at 27 V DC)	5 mA (at 27 V DC)
Housing	6-MODULE	6-MODULE 6-MODULE	
Dimensions	90 x 105 x 65 mm	90 x 105 x 65 mm	90 x 105 x 65 mm
Order code	8466	8188	3257

The unit is designed to control hotel rooms. The unit is equipped with 6 binary inputs, of which 2 can be configured as temperature inputs and 8 independent relays with switch contacts. It also includes two analog outputs and a DALI bus for controlling up to 16 DALI ballasts.

Actuator can switch the appliances, light circuits, thermodrives, etc., possibility of connecting wired buttons and temperature sensors. Outputs supports zero-crossing mode.

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 switch button 2 buttons



Wall switch button 4 buttons



Digital room thermo-regulator



Wall card reader 2 buttons

	2 buttons	4 buttons	thermo-regulator	2 buttons
Technical parameters	WSB3-20, WSB3-20H	WSB3-40, WSB3-40H	IDRT3-1	WMR3-21
Number of buttons	2	4	2 (for temperature correction)	2
Supply voltage	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)
Internal temp. sensor	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
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*
* Covers and frames for the devices must be ordered separately ** Frame must be ordered separately.	Wall controllers, 2x button, built- in temperature and humidity sen- sor (version H), 1x LED indication. In LOGUS ⁹⁰ design.	Wall controllers, 4x button, built- in temperature and humidity sen- sor (version H), 2x LED indication. In LOGUS ⁹⁰ design.	Control unit for heating/cooling. Temperature correction ±5 °C or direct input of requested tempe- rature. Built-in temperature sensor. In LOGUS® design	Wall reader with RFID can read chip cards, key fobs and control the en- trace. Available in black and white color in Logus ⁹⁰ design.
Order code of all color combinations are available in the price list.				回溯回 深念 10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

GLASS TOUCH CONTROLLERS WITHOUT SYMBOLS



Glass wall card reader





9 buttons

6 buttons

Glass switch button controllers (SHARP edges)

4 buttons	6 buttons
7 DULLOIIS	U DULLUII3

Technical parameters	GMR3-61	GSB3-40	GSB3-60	GSB3-90		
Number of buttons	6	4	4 6			
Supply voltage	BUS 27 V DC					
Rated current from BUS	50 mA (at 27 V DC)	25-40 mA (at 27 V DC)				
Internal temp. sensor	yes	yes	yes	yes		
Inputs	-	1x temperature or 1x digital				
Dimensions		94 x 94 x 36 mm				
Order code	61/B: 5585 61/W: 5579	40/B: 8879 40/W: 8880	60/B: 8877 60/W: 8878	90/B: 8827 90/W: 8828		

Glass wall reader with RFID and buttons can read chip cards, key fobs and control the entrace. Available in black and white color in Logus90 design.

Glass touch controllers with symbols GSB3-40, GSB3-60 and GSB3-90 are part of a comprehensive range of glass iNELS $control\,units\,with\,four, six\,and\,nine\,touch\,buttons\,whose\,functions\,can\,easily\,modify\,by\,the\,software.\,The\,glass\,touch\,graph and the control units with four, six\,and\,nine\,touch\,graph and the control units with four, six\,and\,nine\,graph and the control units with four graph and the control units with the control units wit$ controllers is equipped with an integrated temperature sensor. It is also equipped with analog-to-digital input (AIN/DIN), which can be used to connect potential-free contact or external temperature sensor TC/TZ. Available in elegant black (GSB3-40/B, GSB3-60/B, GSB3-90/B) and white (GSB3-40/W, GSB3-60/W, GSB3-90/W) versions. The individual capacitive buttons are point-illuminated by a white LED indicating the status of the controlled output.









GLASS TOUCH CONTROLLERS WITH SYMBOLS



Glass switch button with symbols 4 buttons



Glass switch button with symbols 6 buttons



Glass switch panel 9 buttons

Technical parameters		GSB	GSB3-40/S			GSB3-60/S			GSB3-90/S			
Number of buttons			4		6			9				
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)			25-50 mA (at 27 V DC)					
Inputs	1 x e		perature for gital input	TC/TZ	1 x	1 x external temperature for TC/TZ or 1 x digital input			· · · · · · · · · · · · · · · · · · ·			C/TZ
Dimensions		94 x 94	x 94 x 36 mm 94 x 94 x 36 mm 94 x 94 x 36 mm			94 x 94 x 36 mm						
Order code	40/SB: 5623	40/SW: 5624	40/SBP:8888	40/SWP: 8889	60/SB : 8875	60/SW: 8871	60/SBP: 8886	60/SWP: 8887	90/SB: 8825	90/SBP: 8884	90/SW:8826	90/SWP: 8885

Glass touch controllers with symbols GSB3-40/SP, GSB3-60/SP and GSB3-90/SP are part of a comprehensive range of glass iNELS control units with four, six and nine touch buttons whose functions can easily modify by the software. Engraving of symbols on each button are possible upon a request. The glass touch controllers is equipped with an integrated temperature sensor. It is also equipped with analog-to-digital input (AIN/DIN), which can be used to connect potential-free contact or external temperature sensor TC/TZ . Available in elegant black (GSB3-40/B, GSB3-60/B, GSB3-90/B) and white (GSB3-40/W, GSB3-60/W, GSB3-90/W) versions. In addition to all the features in symbol models, The glass touch controllers are also coming in proximity variant. In the SBP/SWP version, controllers are equipped with a proximity sensor, which can light up the symbols by approaching the unit to approx. 0.25 m. Based on information $from \ the \ ambient \ light \ intensity \ sensor \ it \ can \ switch \ back \ light \ of \ symbols \ or \ perform \ various \ actions \ in \ the \ iDM3 \ software.$







HOTEL UNITS - GRMS









Hotel control unit with touch screen

touch screen Glass room thermo-regulator

Control unit with touch screen

				with touch screen
Technical parameters	EHT3	EHT3 GRT3-50		
Number of buttons	touch screen	7	7	2x2 / 2x3 / 3x3 / 3x4
Supply voltage	BUS 27 V DC	BUS 27	7 V DC	BUS 27 V DC
Rated current from BUS	150 mA (at 27 V DC)	85 mA (at 27 V DC)		150 mA (at 27 V DC)
Measurement	-	internal thermometer and humidity sensor, 1x external input for TC/TZ or 1x digital		-
Dimensions	94 x 94 x 36 mm	94 x 94 x 36 mm		94 x 94 x 36 mm
Order code	available in the price list	50/B: 5630	50/W: 5634	in the pricelist
	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 LOGUS90 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.		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 Logus90 design.
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HOTEL UNITS - GRMS









	Glass card reader		Glass door bell		Glass card holder		
Technical parameters	GCR3-11		GDB3-10		GCH3-31		
Number of buttons	3		1		3		
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)		100-120 mA (at 27 V DC)		
Inputs	internal temperature and brigtness sensor		internal temperature sensor, 1x external input for TC/TZ		brightness sensor		
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	31/B: 5627	31/W: 3494	
	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.		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.		
			24 24 25 187				





Glass bedside panel - right and left

Technical parameters	GBP3-60L 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.

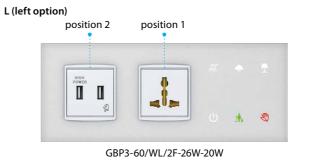
The following variants are available:

- 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

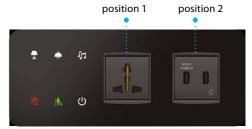
Configure bedside panel according to your request.





GBP3-60/WL/1F-21W45W



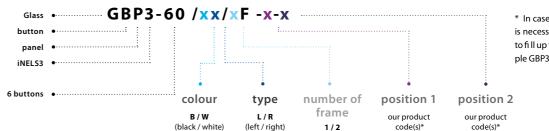


GBP3-60/BR/2F-26B-11B44B



GBP3-60/BR/1F-26B

Part number



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

INTEGRATION



converter IP =>3x infrared transmitter



Third-party integration gateway

iNELS Bridge

eLAN-IR-003

Order code: 3283

- \bullet The applications iHC-MAIR and iHC-MIIR provide universal control for all audio/ video devices (including air conditioning).
- $\bullet\,$ 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, settop 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).
- ${\boldsymbol \cdot}$ 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.
- \cdot It is also possible to control remotely from anywhere using a Wi-Fi network (e.g. from work or vacation).
- ullet 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 direc-
- tions of controlling.



Order code: 8509

- $\boldsymbol{\cdot}\,$ iNELS Bridge works as a gateway for connecting third party devices and integrating them into the iNELS environment.
- It is a one module hardware contain powerful linux based computer.
- The unit comes with an option of pre-installed Connection server, Home assistant with iNELS driver MQTT server and Asterisk.
- $\boldsymbol{\cdot}$ The server uses the open Home Assistant platform, which contains more than 1000 existing integrations.
- $\boldsymbol{\cdot}$ The connection server is providing a communication environment between iN-ELS BUS System with the third-party devices, for which their protocols are also translated and submitted.
- iNELS Bridge is equipped ethernet port for fast and easy communication.
- $\boldsymbol{\cdot}$ The configuration 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).



INTEGRATION



converter IP =>RS-485/232

eLAN-RS-485/232

- 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.



MULTIMEDIA



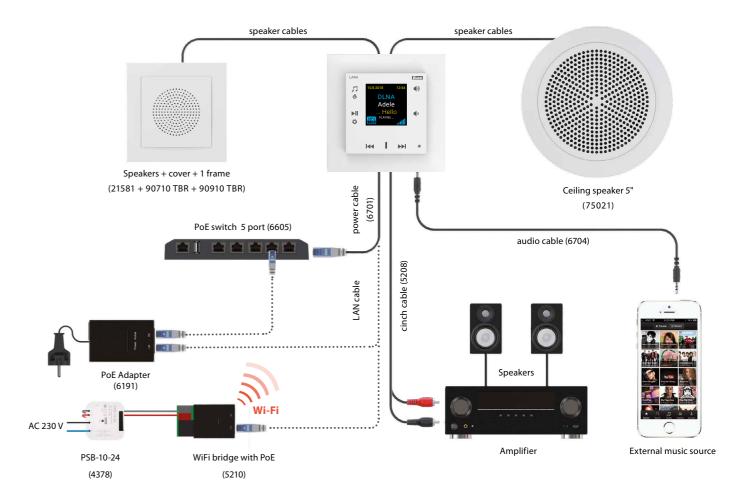
Music and internet radio player



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 LOGUS⁹⁰ 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. 	options to LARA Radio - music players and internet radio stations within the range of LOGUS® switch designs. LARA Intercom provides an extra functionality and videophone intercom or Thanks to videophone function, now it is possible to have a voice communication between LARA and IP intercoms. So if someone ring the door bell, you can see the picture of the visitor on the screen. Controlling of electronic door lock from LARA is the easiest thing.			
	■6x€■				

Wiring example



The application allows you to easily control connected devices in Wireless and BUS gateways such as socket switching, dimming of lights, control of blinds or garage doors, control of heating circuits and compatible air conditioning. Of course, the display of available values, such as temperature, the status of a motion, window, door or flood detectors, or the current status of all controlled devices.

It now brings a clear Dashboard, on which it is possible to display the most used devices, previews of connected cameras or created scenes. With one click, you can control several devices at once. It is also now possible to integrate sip enabled Intercoms and you will get call notification and unlock the door from anywhere in the world. As a new feature you will get notifications on event of units connected to the account. Enter a whole new stage with the new iNELS mobile application, expanding the functions and integration options of the iNELS 2023 system.

Electroinstallation

Wireless		Lighting control	•
	BUS	Garage doors and gates	•
		Switching appliances	•
()))		RGB bulbs and LED strips	•
		Scenes	•
		Detectors/sensors	•
		Heating	•
	HVAC	Air conditioning	•
		Recuperation	•
	3rd party	Cameras	•
		Weather station	•
		Intercoms	•
		Home appliances	•
(83)		Google Home	•
	Voice assistants	Amazon Alexa	•
	Others	Automation	•
		Notification	•
		Favourites/overview	•
		Log history	•
		Weather data	•
		Users management	•



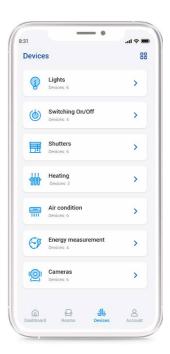
Dashboard

Absolute control over the state of all technologies.



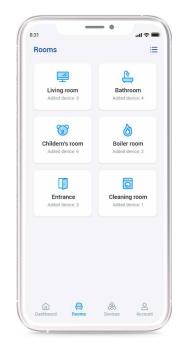
Colour setting

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



Device list

Control the device from anywhere.



Rooms management

Settings according to individual rooms.



Shutters/Blinds

Possibility of individual or joint control of shading technology.



Temperature

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











Luxurious design for any interior



SWITCHES AND SOCKETS

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.









AQUARELLA

Distinct colors. Shades that characterize the space.

















Large selection of colors, modern design and pleasant price.



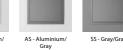




























CRYSTAL

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

















METALLO

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















ARBORE

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













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















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.

SWITCHES AND SOCKETS

DEVICES OVERVIEW



Switch one-pin







Switch three-pin



Rotary dimmer



Movement

detector

Card switch



lamp symbol KEY



Button with LED Blinds

Switch

.

UNITS OF THE INELS SYSTEM IN LOGUS⁹⁰ DESIGN



Wall-mounted controller



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 (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 multiple devices.



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



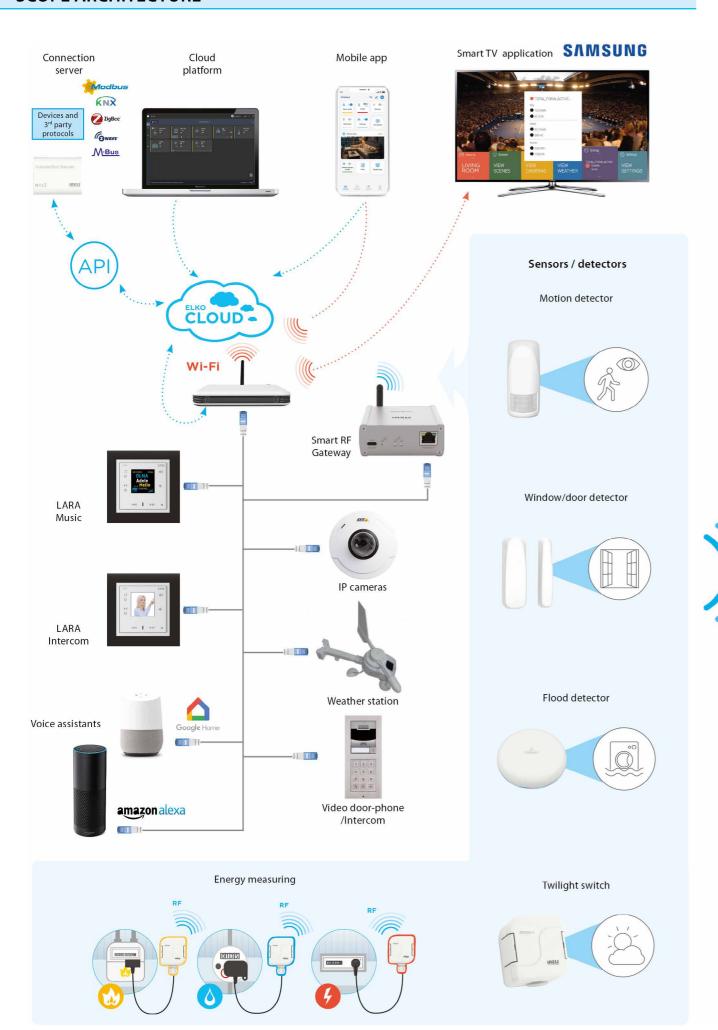
Screwless terminals provide fast and quality connection without need of instrument usage. Double terminals on every pole provide multiple connection withoutneed of extra terminals usage.



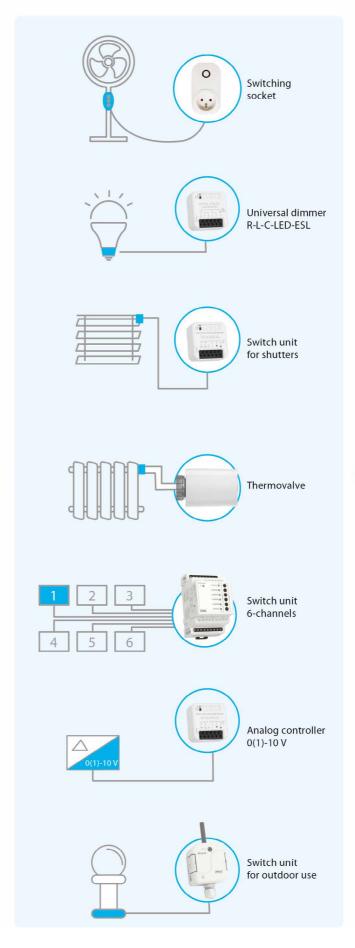
Ability to test electrical functionality of your device without disassembly.

SWITCHES AND SOCKETS

	Order code	Box (Un)			Order code	Colour	Box (Un)
Card-System Timer : 16 A - 100-240 V~	Switch ₂₁₀₃₃	1	CARD	Cover Plate for Card-System Timer Switch	90733 T	BR MF GE PE AL IS PM DU	1
Timer Switch 16 A - 100-240 V~	21040	1	⊕ ofF	Rocker for Timer Switch	90745 T	BR MF GE PE AL IS PM DU	1
Motion Detector - W Installation 1000 W - Power: 100-240 V~ - 50-6 - Compatible with any kind - Possibility of two externa ON/AUTO and Timed	0 Hz; 21403 d of load	10		Cover Plate for Motion	90403 T	BR MF GE PE AL IS PM DU	1
Motion Detector - W Installation 400 W - Power: 100-240 V~ - 50-6 - Compatible with any kind - Possibility of two externa ON/AUTO and Timed.	0 Hz; 21404 d of load	10		Detector - Wall Installation			
Rotary Thermostat - Power: 100-240 V~- 50-66 - Maximum load: 16A (368) - Compatible with any kind - Systems Control: Heating - Temperature settings: 5°C - Possibility of connecting to	0W, cosφ =1); I of load 21234 and/or Cooling; to 30°C;	1		Cover Plate for Rotary Thermostat	90746 T	BR MF GE PE AL IS PM DU	1
RLC Dimmer Press S 100-240 V~	switch 21218	1	0 0	Rocker for RLC Dimmer Press Switch	90747 T	BR MF GE PE AL IS PM DU	1
White Orientation L - Two lighting levels: L1 - 0,2 W; L2 - 0,4 W - 230 V ~ - 50-60 Hz	ight 21388	10	Cover Plate for Orientation Light		90782 T	BR MF GE PE AL IS	20 2
White Orientation L battery - Two operating functions - 230 V ~ - 50-60 Hz	21200	10			PM DU	•	
Double USB Charge Type A with Output at 20° - Voltage: 100-240 V~ Frequency: 50-60 Hz Output voltage: 5 V Output current: 2.4 A Two USB type A outlets.		1	L- 80, L1	Cover Plate for Double USB Charger Type A with outlets at 20°	90673 T	BR MF GE PE AL IS DU PM	1



Actuators



Controllers











Glass touch controller





Glass touch with dimmer





Input contacts converter

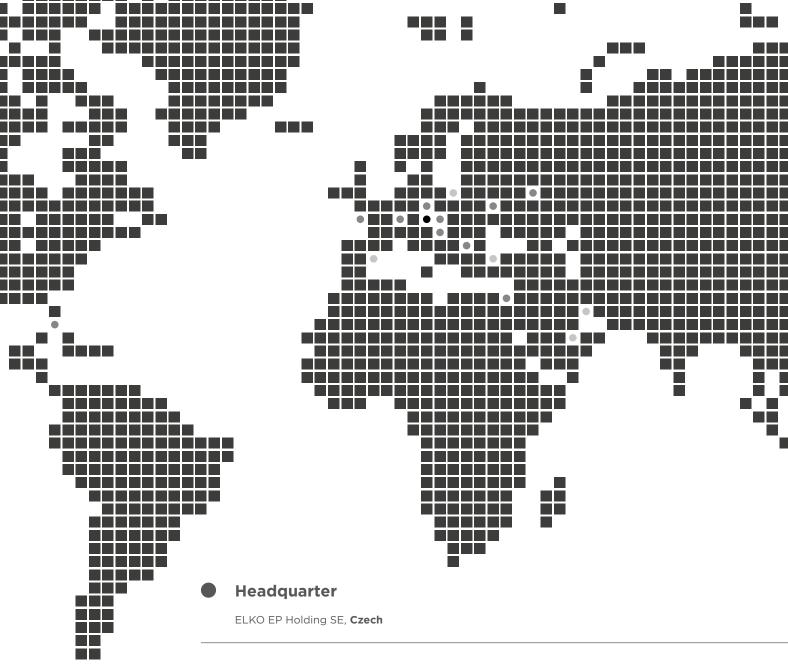






Control unit

Temperature controller



Branches

ELKO EP Egypt, **Egypt**ELKO EP Germany, GmbH, **Germany**ELKO EP Hungary Kft., **Hungary**ELKO EP Kuwait, **Kuwait**ELKO EP Poland, sp. z.o.o., **Poland**ELKO EP BALKAN doo, **Serbia**

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ELKO EP MEA, United Arab Emirates
ELKO EP UK, United Kingdom
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