

PRODUCT OVERVIEW

RELAYS
iNELS RF Control
iNELS BUS System
Audio/Video
LOGUS90
Lighting















Presentation of ELKO EP Company

The company ELKO EP is enjoying its twenty-third year on the tough and rapidly accelerating electronics market. It maintains its position thanks to its own development, precise production and distribution of devices, which make your day easier at home, and in industry, they reliably provide for a fluid process of automation technology.

A dynamic time requires fast-developing solutions. We can fortunately say that our work begins with our in-house development of such devices that you - our customers - are now demanding. We do not hesitate and we react flexibly. We are modernizing the production environment, last year automated production expanded to include the (faster, latest) SMD technology, which can handle producing up to 1,000,000 products per month. Our internal testing laboratory and a two-phase final inspection ensure oversight of quality of our manufactured products.



For several years now, we have been working intensively on developing intelligent electrical installations - in both bus and wireless design. The intelligent electrical installation (iNELS), by the way we designed it, does not just mean control of ordinary electrical elements such as light bulbs or sockets, but includes control of all technologies in the home including multimedia. And that ranks iNELS amongst the top in its field thanks to the complex concept and control of applications.

Our mission is to bring customers modern wiring solutions that make everyday life easier, facilitate work and save money. While others merely sell, we develop and produce. ELKO EP, always something more.

ELKO EP in numbers

 $\label{thm:leadquarters-production} \mbox{Headquarters-production facility: Holešov, Czech Republic}$

Year founded: 1993

Number of employees: 194 in Holešov, 254 in ELKO Holding

Branches: Slovakia, Poland, Hungary, the Ukraine, Russia, Germany, Spain,

Austria, Dubai

Consolidated revenue: > 20 mil. EUR

Export countries: > 66

Important OEM customers: Schneider Electric, Eaton, Siemens, ETI, TYCO, GE

Certification of processes: ISO 9001, ISO14001

Certification of products: CE (EU), UL (USA), GOST (RU), Ukrstandart (UA) a.j.

Attained awards



AWARDS GOLDEN PRODUCT FOR THE SMR-T

Super-multifunction relay SMR-T won the GOLDEN PRODUCT Award at the electrical fair in Ostrava.



AWARDS JIŘÍ KONEČNÝ ENTREPRENEUR OF THE YEAR 2004

In 2004 Jiří Konečný won the Entrepreneur of the year award.



COMPANY OF THE YEAR 2012 VODAFONE

In 2012, ELKO EP became Vodafone Company of the Year of the Zlín Region and placed second nationwide.



THE HONORABLE MENTION "VISIONARIES" FOR "WIRELESS SYSTEM"

In 2013 ELKO EP Ltd. company received the honorary mention of the jury ChechInfo.



AWARDS RF TOUCH BOHEMIAN-MORAVIAN ASSOCIATIONS

The company ELKO EP s.r.o. won the prestigious GOLDEN AMPERE Award for the product RF Touch.

Product Lines ELKO EP



RELAYS - Modular electronic devices

www.elkoep.com

A wide range of electronic modular devices, which bring new possibilities to home and office control, monitoring and security, as well as to industrial process control: time relays, installation contactors, staircase automatic switches, time switches clocks, dimmers, thermostats, power supplies units, control and signalling devices, GSM gates, etc.



iNELS RF Control - Wireless control

www.inels.com

A unique wireless control system providing you perfect control over your home! The RF Control system enables you to control functions such as heating, lighting, electrical appliances and window shutters, all with a single touch. No wall cutting, fast and easy installation, exclusive design of wireless wall switch buttons and other components.



Smart home kits

www.inels.com/kits

Smart kit is a starter kit for Smart Home or House with intelligent electro-installation. After Smartphones and Smart TV, Smart house is the next step in the development of modern technology and housing.



iNELS BUS SYSTEM - Intelligent electro-installation system

www.inels.com

iNELS will transform your house into a timeless intelligent household. It will take charge of heating and air-conditioning, regulation, lighting control and home appliance switching, while also providing perfect security for your home. Enjoy controlling your entire house via a TV screen thanks to iNELS Multimedia (iMM) or use the App for your smartphone or tablet.



AUDIO/VIDEO

www.elkoep.com

In this group you can find products, which brings you a new dimension of controlling music, video and home appliances. These are not just ordinary controllers but products which can be a pefrect part of your electro-installation.



LOGUS90 – Home switches and sockets

www.elkoep.com

We offer you exclusive switches, sockets and accessories in a standard plastic or metallic design. However, there are also charming luxury frames from purely natural materials such as genuine wood, metal, granite or hardened glass. Be especial!





www.elkoeo.com

We don't only supply LED light sources to the market, but also we bring a complex lighting solution. Our goal is to supply quality and affordable LED light sources and provide a high-level of service - always to satisfy our customers!

Attained awards



GOLDEN AMPER AWARDS FOR "RF Touch"

RF Touch – wireless touch control unit won the GOLDEN AMPER.



AWARD OF CZECH AND MORAVIAN ELECTRICAL AND ELECTRONIC ASSOCIATION

The ELKO EP product "LARA" has gained the award – Innovative Product of the Year 2014.



AWARD FOR THE SMART RF BOX "eLAN-RF-003"

In the competition Top Energie 2014, the product "Smart RF box eLAN-RF-003" won third place.



CZECH TOP 100 AWARD

ELKO EP ranked among the best 100 Czech companies.

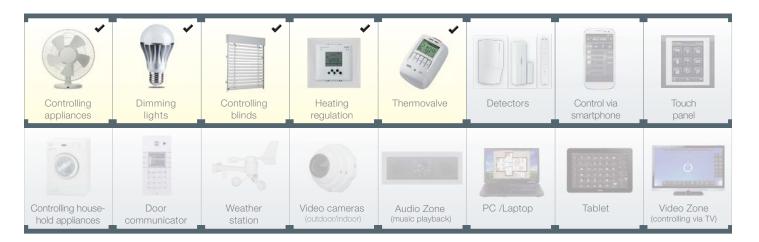


FINALIST OF THE COMPETITION "MANAGER OF THE YEAR 2014"

Mr. Jiří Konečný was granted the title "Manager of the year 2014" by the National Commission.

Choose the right one!

CLASSIC ELECTRO-INSTALLATION



WIRELESS ELECTRICAL INSTALLATIONS



BUS ELECTRICAL INSTALLATIONS



Wireless kits to control your household



THE GAME OF LIGHTS

Kit to control lights via smartphone.



REMOTE HEATING

Kit to control heating via smartphone.



HEATING WITH SAVINGS

Kit to control heating via wireless RF Touch unit.



EASY HEAT REGULATION

Kit for wireless temperature regulation in the home.



RADIO & MUSIC IN THE SWITCH

Kit for controlling music, which perfectly fits in your home's interior.



YOUR HOUSE UNDER THE THUMB

Control your house via a smartphone.



ONE CONTROLLER FOR ALL

Kit for controlling IR devices via a smartphone.





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monitoring current relays - 1 phases, 3 phases, accessories	
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We can dim everything!	
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MODULAR ELETRONIC DEVICES

















Energy meters for secondary measurements



DIGITAL ENERGY METERS

TO MEASURE ACTIVE ENERGY WITH DIRECT CONNECTION



SINGLE-PHASE ENERGY METER PM-1

THREE-PHASE ENERGY METER PM-3



3 LED INDICATORS

- Sealable cover
- Energy consumption is displayed on 7-segment numeric LCD display.
- The measurement of instantaneous power consumption.
- Accuracy Class 1, no calibration.
- Pulse output "SO" for visualization of consumption in the iNELS system.

PM-1

Rated voltage 230V AC. Rated current up to 50 A.

PM-3

Rated voltage 220 / 380V AC. Rated current up to 100 A.



TIME RELAYS

SINGLE-FUNCTION TIME RELAY

DELAY OFF WITHOUT SUPPLY VOLTAGE

DOUBLESTAGE DELAY UNIT

DELAY ON STAR/DELTA ASYMMETRIC CYCLER











Technical parameters	CRM-81J	CRM-83J	CRM-82TO	SJR-2	CRM-2T	CRM-2H
Number of functions	3		2	1	1	2
Time range	0.1 s - 10 h (6	ranges)	0.1 s - 10 min. (4 ranges)	0.1 s - 10 days (8 ranges)	0.1 s - 100 days (10 ranges)	0.1 s - 100 days (10 ranges)
Number of contacts	1x chang. (AgNi) 3x	chang. (AgNi)	2x changeover (AgNi)	2x changeover (AgNi)	2x changeover (AgNi)	1x changeover (AgNi)
Rated current	16 A/AC1	16 A/AC1 8A/AC1		16A / AC1	16A/AC1	16A/AC1
Power supply	AC 230 V, AC/DC 12-24	40V (AC50-60Hz)	AC/DC 12-240V (AC50-60Hz)	AC 230 V, AC/DC 12-240V (AC50-60Hz)	AC 230 V, AC/DC 12-240V (AC50-60Hz)	AC 230 V, AC/DC 12-240V (AC50-60Hz)
	AC 230V, AC/DC 12-240V (ACSO-60Hz) Single-function and singletime relay. Suitable for applications with beforehand known requirements for function and time. ZR - delayed start ZN - delayed return BL - cycler 1:1.		Relay is timing without power supply voltage and is switched off after set period. Two time functions selectable by using a rotary switch: a-delayed return after power supply is switched off e - delayed start.	Serves for sequent switching of high power (for example electrical heating). 2 time functions: 2x delayed start. Adjustable time from 0.1 s to 10 days.	Designated for delayed star/delta motor start. Time t1 Å (star) – adjustable time from 0.1 s to 100 days. Time t2 (delay) between Å/▲ - time range from 0.1 s to 1 s.	Asymmetric cycler with independently adjustable output closing and opening time. 2 time functions: 1) cycler starting with impulse. 2) cycler starting with gap.

MULTIFUNCTION TIME RELAYS

MULTIFUNCTION TIME RELAY

MULTIFUNCTION

MULTIFUNCT. TIME RELAY TIME RELAY WITH WITH CONTACTLESS OUTPUT EXTERNAL POTENTIOMETER

ASYMMETRIC CYCLER WITH EXTERNAL POTENT.



rotary switches.









Technical parameters	CRM-61	CRM-91H CRM-93H	CRM-9S	CRM-91HE	CRM-2HE
Number of functions	6	10	10	10	2
Time range	0.1 s - 10 h	0.1 s - 10 days	0.1 s - 10 days	0.1 s - 10 days	0.1 s - 100 days
Number of contacts	1x changeover (AgNi)	1x chang.(AgNi) 3x chang.(AgNi)	1x triak	1x changeover (AgNi)	1x changeover (AgNi)
Rated current	8A/AC1	16A/AC1 8A/AC1	0.7 A	16A/AC1	16A/AC1
Power supply	AC 24 - 240 V (50-60Hz), DC 24 V	AC 230 V, AC/DC 12-240V (AC50-60Hz)	AC 12-240V (50-60Hz)	AC/DC 12-240V (AC 50-60Hz)	AC/DC 12-240V (AC 50-60Hz)
	Use for electric appliances, control of lighting, heating, motors, pumps etc 6 functions. Comfort and transparent setting of functions and time ranges is carried out with function	Multifunctional time relay for u management and control or in h abundant equipment (10 function power supply, 16A or 3x8A cont Comfort and transparent setting is carried out with function rotal CRM-9S: absolutely noiseless s	ime control with external neter. e relay. Time adjustable from 0.1		



DIGITAL TIME RELAYS

PLUG-IN RELAY

TIME SWITCH WITH WEEKLY PROGRAM

ASTRONOMICAL TIME SWITCH

TIME SWITCH WITH DCF CONTROL

PROGRAMMABLE DIGITAL RELAY TIME RELAY ASYMMETRIC INTO SOCKET CYCLER INTO SOCKET











				(i) uem						
Technical parameters	SHT-1 SHT-3 SHT-1/2 SHT-3/2		SHT-4	SHT-6	PDR-2A	PDR-2B	PRM-91H	PRM-92H	PRM-2H	
Number of functions	1-chanr	nel	2-channel	2-channel	1-channel with external DCF receiver	16	10	10	10	2
Time range		min. st	ep 1s	min. step 1s	min. step 1s	0.01 s -	100 h	0.1 s -10	days 0	.1 s -100 days
Number of contacts	1x chang. (A	.gSnO ₂)	2x chang. (AgSnO ₂)	2x chang. (AgSnO ₂)	1x changeover (AgSnO ₂)	2x changed	ver (AgNi)	1x chang.	(AgNi) 2x	chang.(AgNi)
Rated current		16A/	AC1	16A/AC1	16A/AC1	16A/AC1		16A	/AC1	8A/AC1
Power supply	AC 230 V, /	AC 230 V, AC/DC 12-240V (AC 50-60Hz)		AC 230 V / 50 - 60 Hz	AC 230 V / 50 - 60 Hz	AC 230 V, AC/DC 12	-240V(AC50-60Hz)	AC/DC 1	2-240V (AC	50-60Hz)
	SHT-3, SH SHT-4: Dip Serves for real time, Automatic Sealable ti places, ba	T-3/2: Tir gital time control o in daily, w c transfer ransparer ck-lightec	ne switch clock with ne switch clock with switch with an astro f various appliances reekly and annual m between summer a it front panel cover. ILCD display.	n annual program conomical program in dependence on node. nd winter time. 100 memory	Used for controlling appliances depending on real time, that is synchronized by a DCF 77 signal, thanks to the automatic time settings (with DCF 77 signal) it eliminates inaccuracies and errors by time running.	PDR-2A: 30 mer for most frequer PDR-2B: 2 time device. Used for installa it is necessary tr time (a visual in	ntly used times. relays in one options where one set the exact	dardized r sockets. So easy repla tion of old (pin comp	constructe ound 11-pia ocket desig ocement, so er types of atible) or s ent of auxil PLUG-IN ve	d for stan- n or 8-pin In allows Ubstitu- Frelays imple iary relay

SUPER MULTIFUNCTION RELAY

STAIRCASE SWITCHES

SUPER-MULTIFUNCTION RELAY

STAIRCASE AUTOMAT

PROGRAMMABLE STAIRCASE AUTOMAT STAIRCASE AUTOMAT WITH DIMMING











Technical parameters	SMR-K	SMR-T	SMR-H	SMR-B	CRM-4	CRM-42	CRM-42F	DIM-2	DIM-21h
Number of functions		9		10	3		3		4
Time range	0.1 s - 10 days		0.1 s -10 days	0.5 s -10 min	0.5 s -	-10 min	0 s -	20 min.	
Number of contacts	1x triak		1x NO (AgSnO ₂)	1x changeover (AgSnO ₂)	1xNO-SPST(AgSnO), switches potencial A1	1:	x triak	
Rated current	-		16A125/250V AC1	16A/AC1	16 <i>A</i>	16A/AC1		0 VA; L: 10-250 VA	
Power supply	A	AC 230 V / 50-60Hz		AC 230 V/50-60Hz	AC 230 V / 50-60Hz	AC 230 V	/ 50-60Hz	AC 230) V / 50Hz
	Relay designated for mounting into an installation box, under pushbutton or switch into existing electro-installation. SMR-K: 3-wire connection, it operates without "NEUTRAL" connection. SMR-T: 3-wire connection, it operates without "NEUTRAL" connection, output power: 10-160 VA, it cannot be used for fluorescent and saving lamps. SMR-H: 4-wire connection, output power: 0-200 VA, it cannot be used for fluorescent and saving lamps. SMR-B: 4-wire connection, it allows switching of fluorescent and saving lamps.			Serves for delayed lighting turning off in staircase, corridor or entrance. It is controlled with pushbutton or several pushbuttons from more places (parallel connected).		cation as CRM- th extended po- trol in "PROG" sible to select ning off time eer of depre- rol pushbutton. ircase switch	- time for which have the set the -20min - brightness to should be act	time -1-40s vn time - 1-40s ch light should orightness - 0s- o which lighting ivated - 10-100% / finish duration 1h.	



POWER RELAYS POWER POWER RELAY POWER RELAY POWER **POWER** RELAY RELAY **RELAY** INTO SOCKET INTO SOCKET











Technical parameters	VS116B/230	VS116K	VS116U	VS308K	VS308U	VS316/24	VS316/230	750L	782L
Power terminals	L-N	A1 - A2	A1 - A2	A1 - A2	A1 - A2	A1 - A2	A1 - A2	A1	- A2
Power supply	AC 230 V/50-60 Hz	AC 230 V	AC/DC 12-240 V	AC 230 V	AC/DC 12-240 V	AC/DC 24 V	AC 230 V	AC (6,12,24,48,60,1	15,120,220,230,240)
Power terminals	-	A1 - A3	-	A1 - A3	-	-	-		-
Power supply	-	AC/DC 24 V	-	AC/DC 24 V	-	-	-	DC (6, 48, 60,110	,120, 12, 24, 220)
Number of contacts	1x changeover (AgSnO ₂)	1x change	over (AgSnO ₂)	3x chang	jeover (AgNi)	3x changeo	ver (AgSnO ₂)	3x chang. (AgNi)	4x chang. (AgNi)
Rated current	16 A/ AC1	16/	A/AC1	8,	A/AC1	16A	/AC1	10 A	6A
	They are used as enhancemen	t or extension t	for existing device	contact numb	oers.	<u>VS316/24</u> or <u>\</u>	<u>/S316/230</u>	It is used to switch	a higher output

Possibility of LED color selection for output status indication: red, green, yellow, blue or white LED.

VS116B/230: MINI, mounting into an installation box.

allows switching of different phases or 3-phase voltage.

(load) than the capacity of switching element = amplifier. Auxiliary control of lighting, signaling, relay interlocks, boilers, HDO, direct heaters, mechanical indication incorporated in standard, LED indication, cadmium-free gold-plated contact, locking lever.

DIMMERS

CONTROLLED DIMMER

CONTROLLED DIMMER

CONTROLLED DIMMER

CONTROLLED DIMMER

LIGHTING INTENSITY CONTROLLER











	R			<u> </u>	() ()		R O		
Technical parameters	DIM-5	DIM-14	SMR-M	DIM-15	DIM-6	DIM6-3M-P	SMR-S	SMR-U	LIC-1
Number of contacts	1 x triak	2 x MOSFET	2 x N	10SFET	4 x MOSFET	2 x MOSFET	1 x triak 2 x MOSFET		2 x MOSFET
Rated current:	2.	A	Ž	2A	10 A	5 A		-	-
Power supply	AC 230V	/ 50 Hz	AC 230'	V / 50 Hz	AC 230 V /50 H	AC 230 V /50 Hz AC 230 V /50 Hz		C / 50Hz	AC 230 V /50-60Hz
Load	R -10- 500 VA	R - 500 VA	Е	SL	R - 2000 VA	R - 1000 VA	R -10-300 VA	R - 500 VA	R - 300 VA;
	L-10-250 VA	L - 500 VA	L	LED		L - 1000 VA	L -10-150 VA	L - 500 VA	L - 300 VA; C - 300 VA;
	-	C - 500 VA			C - 2000 VA	C - 1000 VA	-	C - 500 VA	ESL; LED
	DIM-5: button of		SMR-M: for m		DIM-6: Dimn	several methods.	SMR-S: Button		Intensity controller for main-

presses ON/OFF, a long press regulates brightness, storing in the memory DIM-14 as DIM-5, built-in protection against temperature and current overload, electronic fuse.

box KU-68 (or similarly). ESL dimmable energy-saving lamps. LED lamps. DIM-15: ESL dimmable ener-

gy-saving lamps. LED lamps.

controlled by several method pushbutton, external potentiometer, analog signal O-10V, INELS bus system. Possibility of modular extension up to 10 000 VA. <u>DIM6-3M-P</u>: Expandable power module for DIM-6 cannot be operated separately.

mounting into an installation box. Used to control lamp brightness, dimming, possible to control from more places. <u>SMR-U:</u>as DIM-14, but for mounting under the button into an installation box KU-68.

ESL dimmable energy-saving lamps, LED lamps, R,L,C, - resistive, inductive and capacitive load.



STABILIZED POWER SUPPLIES **DIMMERS** LIGHTING INTENSITY POWER SUPPLIES POWER SUPPLIES POWER SUPPLIES LED DIMMER DALI/DMX CONTROLLER OF PSB SERIES (10 W) OF PS SERIES (10 W) OF PS SERIES (30 W) ******** **Technical parameters** LIC-2 DCDA-33M/RGB PSB-10-12 PSB-10-24 PS-10-12 PS-10-24 PS-30-12 PS-30-24 Output voltage 0/1-10 V 6-55 V 12 V DC 24 V DC 12 V DC 24 V DC 12 V DC 24 V DC Max. load 50 mA 3 x 50 W 0.84 A/10 W 0.42 A/10 W 0.84 A/10 W 0.42 A/10 W 2.5 A /30 W 1.25 A/30 W Number of modules 3 box 3 Output voltage tolerances $\pm 2\%$ $\pm 2\%$ $\pm 2\%$ Power supply AC 100-240V 12-60V DC AC 110 - 250 V / 50-60 Hz AC 184 - 253 V / 50-60 Hz AC 100 - 250 V / 50-60 Hz PSB-10: switched stabilized PS-10: switched stabilized PS-30: switched stabilized Serves as control unit for Serves to dim monochrome dimmers or electronic LED and RGB LED light power supplies with fixed power supplies with fixed power supplies, 3-module ballasts with analog control sources with power supply output voltage, for mounting output voltage, 1-module configuration. 0-10 V / 1-10 V. 12-24 V DC which are into an installation box. configuration. current-controlled.

	POWER SUPPLIES									
		SUPPLIES S (100 W)	REGULATED POWER SUPPLY (30 W)	POWER S OF DR SERI			IZED POWER ZNP SERIES	REGULATED POWER SUPPLY (10 VA)		
				DR 601 March 1997 Marc		TOP-IN THE PARTY OF THE PARTY O				
Technical parameters	PS-100-12	PS-100-24	PS-30-R	DR-60-12	DR-60-24	ZNP-10-12V	ZNP-10-24V	ZSR-30		
Technical parameters Output voltage	PS-100-12 12 V DC	PS-100-24 24 V DC	PS-30-R 12-24V DC	DR-60-12 12 V DC	DR-60-24 24 V DC	ZNP-10-12V 12V AC / DC	ZNP-10-24V 24 V AC / DC	ZSR-30 DC5-24V stab. /DC24V nonstab./Av		
-						12V AC / DC				
Output voltage	12 V DC 8.4 A/100 W	24 V DC	12-24 V DC	12 V DC	24 V DC 2.5 A/60 W	12V AC / DC 8	24 V AC / DC	DC5-24V stab. /DC24V nonstab./A		
Output voltage Max. load	12 V DC 8.4 A/100 W	24 V DC 4.2 A/100 W	12-24 V DC 2.5-1.2A /30W	12 V DC 4.5 A/54 W	24 V DC 2.5 A/60 W	12V AC / DC 8	24 V AC / DC W	DC5-24V stab. /DC24V nonstab./Av		
Output voltage Max. load Number of modules	12 V DC 8.4 A/100 W ±	24 V DC 4.2 A/100 W	12-24 V DC 2.5-1.2A /30W 3	12 V DC 4.5 A/54 W 4.	24 V DC 2.5 A/60 W 5	12V AC / DC 8	24 V AC / DC W	DC5-24V stab. /DC24V nonstab./Av 8 W 3		

PS-30-R: switched stabilized power supplies, 3-module

configuration.



BELL TRANSFORMERS

BELL TRANSFORMERS OF ZTR SERIES (8 VA)

BELL TRANSFORMERS OF ZTR SERIES (15 VA)



CONTROLLING AND SIGNALING MODULES USS-ZM, USS-00 .. USS-15







Technical parameters	ZTR-8-8	ZTR-8-12	ZTR-15-12	USS-ZM - BASIC MODULE
Output voltage	AC 8 V	AC 12 V	AC 4 V, 8 V, 12 V	USS-00 - Blind flange USS-01 - Switch
Max. load	81	VA	4V 5 VA-8 V 10 VA-12 V 15 VA	USS-02 - Switch over USS-03 - Switch with intermediate position
Number of modules		2	3	USS-04 - Switch + pushbutton with intermediate position
Power supply	AC 230 \	/ / 50 Hz	AC 230 V / 50Hz	USS-05 - Switching pushbutton with intermediate position USS-06 S/R - Pushbutton closing/opening
	supplying.		g, for door bell, door lock ternating output voltage.	USS-07-09 - Switch with glow lamp (red, green, blue) USS-10-15 - Signalling LED (red, green, blue) Designated for switching, control and signaling of auxiliary and power circuits. USS- "Do-it-yourself" = various types of switching and signaling units can be "snapped" in the basic module. Units are supplied separately, individual configurations are assembled by the user. It is possible to place up to two units into one MODULE (for example 2x switch, 2x signalling lights or combinations) = when compared with competitors it is saving place in a switch board. 1-MODULE, DIN rail mounting. Operating temperature -20 +55°C.

	TW	/ILIGHT SWITCH	HES	MEMOR	Y RELAYS
	TWILIGHT SWITCH WITH EXTERNAL SENSOR	TWILIGHT SWITCH WITH TIME SWITCH	TWILIGHT LIGHT SWITCH WITH IN-BUILT SENSOR	MEMORY RELAY	MEMORY STEPPING RELAY
	H		2003		
Technical parameters	SOU-1	SOU-2	SOU-3	MR-41	MR-42
Sensor	external	external	internal	-	-
Time delay	0 - 2 min	0 - 10 min	0/1min /2 min	-	-
Number of contacts	1x changeover (AgSnO ₂)	1x changeover (AgSnO ₂)	1x NO- SPST(AgSnO ₂)	1x changeover (AgSnO ₂)	2x changeover (AgSnO ₂)
Rated current	16 A / AC1	8 A / AC1	12 A / AC1	16 A / AC1	16 A / AC1
Power supply	AC 230 V, AC/DC 12-240V (AC 50-60 Hz)	AC 230 V /50-60 Hz	AC 230 V /50-60 Hz	AC 230 V, AC/DC 12-240V (AC 50-60 Hz)	AC 230 V, AC/DC 12-240V (AC 50-60 F
	It can be used for control of lighting on basis of ambient light intensity. Adjustable lighting level in two ranges: 1-100 Lx and 100 - 50000 Lx. Time delay 0-2 min.	Designated for control of lighting on basis of ambient light intensity and real time (combination of SOU-1 and SHT-1 time switch in one). Adjustable lighting intensity level 1-50000LxInnovation: Plug-in model for replacing	It can be used for control of devices on basis of ambient light intensity level. Outdoor configuration with IP65 protection. Inbuilt light intensity sensor. 2 devices in one - twilight switch, light switch.	Memory (impulse) switches co lighting control from more plac Relays remember their condition outage recover, so that relay is supply outage and after power in the same condition as before MR-42: options - 2x parallel co latching.	es. on even after power supply always turned off during power supply recovers, relay returns power supply outage.



MONITORING RELAYS - 1 phase

MONITORING VOLTAGE RELAY, 1 PHASE, AC

MONITORING VOLTAGE RELAY, 1 PHASE, AC

MONITORING VOLTAGE RELAY, 1 PHASE, AC

MONITORING VOLTAGE RELAY, 1 PHASE, DC

MONITORING VOLTAGE RELAY, 1 PHASE, AC/DC











Technical parameters	HRN-33	HRN-63	HRN-35	HRN-37	HRN-67	HRN-34	HRN-64	HRN-41	HRN-42	
Number of contacts	1x chang./SPDT (AgNi/Silver Alloy		1x changeover for each level of voltage (AgNi)	1x chang./SPDT (AgNi/Silver Alloy)		1x chang./SPDT (AgNi/Silver Alloy		2x chang./SPDT (A	gNi/Silver Alloy)	
Rated current	16 A / AC1		16 A / AC1	16 A	16 A / AC1		/ AC1	16 A /	AC1	
Circuits secure	1 phase		1 phase	1 pl	hase	D	C	1 phase	AC/ DC	
Monitored ranges	AC 48 - 276 V / 50 Hz		AC 48 - 276 V / 50 Hz	AC 24 - 15	0 V / 50 Hz	DC 6	- 30 V	10-50 V; 32-160	V; 100-500 V	
Umin/max	AC 48 - 276 V / 50 Hz		50 Hz AC 48 - 276 V / 50 Hz		AC 24 - 150 V / 50 Hz		DC 6 - 30 V		AC 110 V; AC 230 V; AC 400 V; AC/DC 24 V (AC 50-60Hz)	
	AC 48 - 2/6 V / 50 Hz Serves for monitoring of power supply voltage for appliance sensitive with respect to power supply tolerances, device protection against undervoltage / overvoltage. It monitors undervoltage and overvoltage level separately. Adjustable delau 0-10 s.		Serves for monitoring of power supply voltage for appliance sensitive with respect to power supply tolerances, device protection against undervoltage / overvoltage. It has independent output relay for each voltage level.	Serves for mon wer supply volt ance sensitive v to power suppl device protection undervoltage / It monitors und overvoltage lev Adjustable dela	age for appli- with respect y tolerances, on against overvoltage. lervoltage and el separately.	Serves for mor power supply vappliance sens respect to pow tolerances, dev against underv overvoltage. W is predestined of battery circu	voltage for itive with ver supply vice protection voltage / ith its range, it for monitoring	Functions: HRN-41: "HYSTEI HRN-42: "WINDO "MEMORY" func return from error status, it is neces RESET pushbutte separated power	DW". tion- for into normal sary to press on. Galvanically	

MONITORING RELAYS - 3 phases

RELAY FOR SEQUENCE AND PHASE OUTAGE MONITORING

VOLTAGE RELAY FOR OVERVOLTAGE VOLTAGE RELAY FOR OVERVOLTAGE / UNDERVOLTAGE MONITORING / UNDERVOLTAGE MONITORING

RELAY FOR SEQUENCE AND PHASE OUTAGE MONITORING RELAY FOR COMPLETE MONITO-RING OF 3-PHASE NETWORKS











Technical parameters	HRN-55	HRN-55N	HRN-57	HRN-57N	HRN-54	HRN-54N	HRN-56,1M HR	RN-56, 3 M	HRN-43	HRN-43N
Number of contacts	1x chang./SPDT (/	AgNi/Silver Alloy)	1x chang./SPDT(AgNi/Silver Alloy)	1x chang./SPDT	(AgNi/Silver Alloy)	1x chang./SPDT (AgN	li/Silver Alloy)	2x chang./SPDT(A	agNi/Silver Alloy)
Rated current	8 A / AC1		8 A / AC1		8 A	/ AC1	8 A / AC	1	16 A /	AC1
Circuits secure	3 phases		3 ph	nases	3 pl	hases	3 phase:	S	3 ph	ases
Monitored ranges Umin/max	125% Un	/ 75% Un	105-125 % Ui	n / 75-95% Un	105 - 125% U	In / 75-95% Un	70 - 95% Un /	60% Un	35-99%	6 Umax
Power supply	from monito	ored voltage	from monitored voltage		from monitored voltage		from monitored voltage		AC 230 V; AC/DC 24 V (
	HRN-55: Supplii phases, i.e. relay is retained even outage. HRN-55N: L1-N i.e. the relay mo neutral wire bre	y function one phase supplying, nitors also	Serves for mor voltage in swit protection of d equipment. Po setting of top a voltage limits a output relay co Umax 105-125 Umin 75-95%	chboard, evices and ssibility of and bottom et which the ontact opens. % Un.	protection of d	nce and n switchboard, levices and s possible to set ttom voltage the output opens.	Relay monitors sec outage of phases in 3 x 120V - 1M 3 x 208V - 1M 3 x 240V - 1M 3 x 400V - 1M 3 x 480V - 3M 3 x 575V - 3M		Relay monitors in 3-phase netwood voltage in two (overvoltage ar voltage) - phase asymme - phase sequence - phase outage	orks: levels ad under etry



MONITORING CURRENT RELAYS - 1 phases

- 3 phases

ACCESSORIES

MONITORING CURRENT RELAY, (1-20 A) MONITORING CURRENT RELAY

MONITORING CURRENT RELAY AC/DC MONITORING CURRENT RELAY CURRENT TRANSFORMERS











Technical parameters	PRI-32	PRI-51	PRI-52	PRI-41	PRI-42	PRI-53/1 PRI-53/5		SR
Number of contacts	1x chang./SPDT (AgNi/Silver Alloy)	1x chang./SPDT (Ag	Ni/Silver Alloy)	1x chang./SPDT (A	gNi/Silver Alloy)	2x chang. / DPDT (AgNi) gilded		-
Rated current	8 A / AC1	8 A / A	C1	16 A /	AC1	0 - 5 A		0 - 5 A
Circuit monitoring	1 phases	1 phas	es	1 pha	ses	3 pł	nases	1 phases
Monitored ranges	1-20 A (AC 50Hz)	0.05 - 16 A	0.5-25A	4-16 A; 1.25-5	A; 0.4-1.6 A	adjustable 40 - 120% In		50 - 600 A
Power supply	AC 24-240 V, DC 24 V (AC 50-60Hz)	AC 24-240 V, DC 24 V (AC 50-60Hz)	AC 230 V	AC 230V, AC/DC 2	4 V (AC 50-60Hz)	24 - 240 V AC/DC		-
	PRI-32: monitoring relay is used to monitor current level in single-phase AC circuits. The product includes also current transformer; if a conductor is put in it, the transformer detects the size of passing current.	PRI-51: monitorin used to monitor c in single-phase AI PRI-52: used to in current flow, e.g. t wire heating cabl ting elements, to consumption of e	urrent level C circuits. Idicate the o monitor es, rod hea- monitor the	Functions: PRI-41: "HYSTER PRI-42: "WINDO The relay is des monitoring of D single-phase cu ranges.	OW ". ignated for IC and AC	24-240 V AC/D galvanically sep the circuit of the current. Adjusta UNDER, OVER. according to the In (1A, 5A).	parated from e monitored ble function: 2 types	Designated as a complement to monitoring current relays of PRI line, i.e. in order to increase max. monitored current. Primary current: 50, 100, 150 200, 250, 300, 400, 600 A.

MONITORING - voltage

- COS Φ
RELAYS FOR MONITORING

OF COS POWER FACTOR

- frequency
FREQUENCY

ELECTRICITY METER

ELECTRICITY METER



OPTICAL SIGNALIZATION FOR









				(I) nev	W					
Technical parameters	MPS-1	COS-1	HRF-10	PM-1	PM-3					
Number of contacts	-	2x chang./DPDT (AgNi/Silver Alloy)	1x changeover/ SPDT (AgNi) gilded							
Rated current (supply)	-	16 A / AC1	16 A	circuits Display the total energy consumption through 5-digit + 2						
Circuit monitoring	fused for optical signaling of the voltage	1 phases, 3 phases	-	decimal places LCD. LED indicator displays the status of the power supply and						
Monitored ranges	50 - 276 V	cos-φ 0.1 - 0.99	adjustable 80 - 120 % Fn	the power pulse signal. PM-1: Overloading - orange LED. 1-module design to DIN						
Power supply	AC 3x400/230V, 50/60Hz	AC 230 V; AC 400 V; AC/DC 24 V (AC 50-60Hz)	161 - 346V	rail, sealable cover. PM-3: LED indicator displays t	he status (no load, normal					
	Used for optical signaling of the voltage level in three phases. Four-wire connection - L1, L2, L3, N. Monitors phase voltages against neutral wire. LED indicator - for every phase 1 LED.	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.	The relay is designed for monitoring frequency of AC voltage, e.g. in photovoltaic power stations, generators. Two adjustable levels of frequency (Fmin, Fmax) in the range of 80 - 120% Fn	and overload). 7-module design						



MODULAR THERMOSTATS

SIMPLE	SIMPLE	DOUBLE	MULTIFUNCTION	MOTOR WINDING
THERMOSTATS	THERMOSTATS	THERMOSTAT	THERMOSTAT	TEMPERATURE MONITORING











Technical parameters	TER-3 A, B, C, D, G, H	TER-3E	TER-3F	TER-4	TER-9	TER-7
Monitored ranges	-30+10; 040; 3070; 060; -1545°C	06	50°C	-40+110°C	-40 +110°C	1.8 - 3.3 kΩ
Sensor / Type	external, therm. NTC, except for TER-3G (PT100)	external, NTC	in-built	external, thermistor NTC	external, thermistor NTC	external, PTC
Number of contacts	1x NO (AgSnO ₂)	1x NO- SP	ST (AgSnO ₂)	2x chang./DPDT (AgNi/Silver Alloy)	1x chang. for each output/SPDT, (AgNi)	2xchang./DPDT(AgNi/Silver Alloy)
Rated current	16A/AC1 10A / 24 V DC	16A/AC1 1	0A/24 V DC	16A/AC1	8A/AC1	8A/AC1
Power supply	AC/DC 24-240V (AC 50-60Hz)	AC/DC 24-240	V (AC 50-60Hz)	AC 230, AC/DC 24 V (AC 50-60Hz)	AC 230, AC/DC 24V (AC 50-60Hz)	AC/DC 24 V - 240 V (AC 50-60Hz)
	Simple thermostat for temperature monitoring and control within range -30+70°C. Possibility of "heating"/"cooling" function setting (realized with DIP switch). Adjustable hysteresis (sensitivity).	rature monitor within range C <u>TER-3E:</u> - selec	tion from erature sensors.	Double thermostat for temperature monitoring and control within wide range -4 +110°C. 2 temperature outputs for NTC sensor. 2 independent switching output contacts 16A.	Digital thermostat with 6 functions and in-built time switch. 2 thermostats in 1, 2 temperature inputs, 2 outputs. Functions: 2 independent thermostats, dependent thermostat, differential thermostat. Innovation: Plug-in model for replacing backup atterym.	It monitors motor winding temperature. PTC sensor in-built in motor winding is used as a sensing element. Error condition RESET: a) with pushbutton on front panel b) with external contact.

ROOM AND OUT SIDE THERMOSTATS

ANALOG ROOM DIGITAL ROOM THERMOSTATS THERMOSTATS

TWO-LEVEL THERMOSTAT ONE-LEVEL THERMOSTAT

HYGRO-THERMOSTAT

HYGROSTATS

HYGROSTAT











Technical parameters	THERMO ATx / DTx	TEV-1 TEV-2 TEV-3	TEV-4	RHT-1	RHV-1
Number of contacts	potential-free contact NO (AgNi)	1x chang./SPDT (AgNi/Silver Alloy)	1x NO/SPDT (AgSnO ₂)	1x NO/SPDT (AgSnO ₂)	1 x NO/SPST (AgSnO ₂)
Rated current	16A/250 V 4000VA for AC1	16A/250 V	12 A / AC1	16A/AC1,10A/24V DC	12 A /AC1
Power supply	AC 230 V	AC 230 V / 50-60 Hz	230 V AC / 50-60Hz	24 - 240 V AC/DC (AC 50-60Hz)	230 V AC / 50-60Hz
	ATR: room thermostat. ATE: floor thermostat. ATC: combined thermostat with room and fl oor sensors. Monitoring ranges +5+40°C, hysteresis ±1°C. DTR: Room thermostat DTC: Combined thermostat DTC: Combined thermostat with room and floor sensors. Monitoring ranges +5+50°C, Adjustable hysteresis ±0.5-1°C. DTF DTC - external sensor	TEV-1: Thermostat with "WINDOW" function; i.e. output is closed if is measured temperature between set temperature values. Monitoring ranges 2x-20.+20°C, hysteresis ± 1.5°C. TEV-2: (Monitoring ranges -20.+20°C, hysteresis ± 1.5°C). TEV-3: (Monitoring ranges +5.+35°C, hysteresis ± 1.5°C) thermostat with possibility of temperature control in adiustable range	Simple thermostat for monitoring and control of temperature in outdoor spaces and demanding environments. Two functions that can be set with a link: heating and cooling. Monitoring ranges: -30+60°C, hysteresis: 0.5 / 1.5 / 4 °C.	Hygro-thermostat for temperature monitoring and control - range 0+60°C and relative humidity - range 5090%. Sensor is part of device - designated for measuring in switchboard.	A basic hydrostat to monitor and control the relative humidity 0-90%. Outdoor version IP65, box for wall mounting, removable lid without screws.



LEVEL SWITCHES

DOUBLE LEVEL SWITCH

LEVEL SWITCH

LEVEL SWITCH

MULTI-GRADE LEVEL SWITCH

LEVEL SET











		(i) uem			
Technical parameters	HRH-1	HRH-7	HRH-5	HRH-6 /DC HRH-6/AC	HRH-4
Function	3	2	2	2	2
Number of contacts	2x chang./DPDT (AgNi/Silver Alloy)	1x chang.(AgSnO ₂)	1x chang.(AgNi)	1x NO-SPST (AgNi/Silver Alloy)	4x NO
Current rating	16A / AC1	15-18: 16 A / AC3; 15-16: 3A / AC3	8A / AC1	10A / AC1	25A
Sensitivity	5 - 100 kΩ	5 - 100 kΩ	5 – 100 kΩ	10 - 150 kΩ	5 - 100 kΩ
Power supply	AC 110 V; AC 230 V; AC 400 V; AC/DC 24 V (AC 50-60Hz)	24 - 240 V AC/ DC (AC 50-60Hz)	24 - 240 V AC/ DC (AC 50-60Hz)	DC 12-24 V or AC 230 V	AC/DC 230 V, AC/DC 24 V (AC50-60 Hz)
	Level switch with single-sta- tus, two-status monitoring. 2 independent level switches with single-status monitoring. It is possible to select the following functions with DIP switch: replenishing, pumping out, tank level monitoring.	Suitable to operate/work in harsh conditions due to the high degree of protection IP65. The same functions as for HRH-5.	The relay is designed for monitoring the level of conductive fluids with the option of selecting functions: pumping in and pumping out. Optionally set configurations: single-level or double-level switch.	Device monitors 5 levels by using six probes (one probe is common). Level indication by six LED's on the front panel of the device. HRH-6/S: additional signaling to HRH-6 with 6 indicators on the front panel.	It is a complete unit consisting of HRH-5 level relay and VS425 contactor. Set has IP55 protection. The set is designed to switch 3-phase pumps.

LEVEL SETS

ACCESSORIES

THERMO-VALVE

LEVEL SETS

THERMO SENSORS FOR THERMOSTATS

LEVEL SENSORS

THERMO-VALVE

ENERGY-SAVING DIGITAL RADIATOR THERMO-VALVE











nev

(protected against dust and against water jets).

LEVEL SWITCH SETS FOR LEVEL MONITORING

There are Level sets placed in switchboard with IP65 protection

<u>HRH-VS:</u> level switch HRH-5 with installation contactor VS425-40 (25A contact).

<u>HRH-MS-1A:</u> level switch HRH-5 with motor starter MS18 0,63-1A. <u>HRH-MS-1.6A:</u> level switch HRH-5 with motor starter MS18

HRH-MS-VS-2.5A: level switch HRH-5 with installation contactor VS425-40 (25A contact) and with motor starter MS18 1.6-2.5 A. HRH-MS-VS-4A: level switch HRH-5 with installation contactor VS425-40 (25A contact) and with motor starter MS18 2.5-4 A. HRH-MS-VS-6.3A: level switch HRH-5 with installation contactor VS425-40 (25A contact) and with motor starter MS18 4-6.3 A.

TC, TZ, Pt

<u>TC:</u> Types of thermo sensors for range 0..+70°C.
<u>TZ:</u> Types of thermo sensors for range -40..+125°C.
<u>Pt100:</u> Types of thermo sensors for range

-30..+200°C.
Temperature sensors are produced from thermistor NTC.
TC - cable CYSY is used,
2Dx0.5mm, PVC insulation
TZ - cable with silicone insulation.

Pt100 - shielded cable with silicon insulation 2x0.22 mm². TC, TZ, Pt - offered length is 10 cm, 3, 6 or 12m.

SHR-x CABLE

SHR-1: for guarding flooding. SHR-1-M brass sensor. SHR--1-N stainless steel sensor. SHR-2: is used to detect levels as in wells, boreholes, tanks. Stainless steel sensor in PVC housing. SHR-3: for use in harsh and

industrial environments.
Stainless steel sensor.

Accessories for level switches: DO3W-F 3x0.75/3.2: cable to probes SHR-1 and SHR-2, 3x 0.75 mm² with a certific cation for drinking water, 1m. DO5V-K 0.75/3.2: cable to probes SHR-1 and SHR-2, 3x 0.75 mm² with a certification for drinking water, 1m.

TELVA 230V, TELVA 24V

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

Design:

NO - without voltage open NC - without voltage closed Types of thermo actuators:

- TELVA 230V, NO
- TELVA 230V, NC
- TELVA 24V, NO - TELVA 24V, NC.

This energy-saving digital radiator thermo-valve is a programmable regulation device for various heaters, but mainly radiators. Intervals of heating and energy-saving operation can be set using a freely adjustable time program. 8 individually programmable

ATV-1

- 8 individually programmat 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.





INSTALLATION CONTACTORS

INSTALLATION CONTACTORS

1-MODUL

INSTALLATION CONTACTORS INSTALLATION CONTACTORS 3-MODUL

INSTALLATION CONTACTORS 4.5-MODUL

MINIATURE INSTALLATION CONTACTOR











Technical parameters	VS120	VS220	VS425	VS440 VS463		VS420	
Number of poles	1	2	4	4		4	
Load	20 A	20 A	25 A	40 A 63 A		20 A	
Configuration of contacts NO/NC	10, 01	20, 11, 02	40, 31, 22, 04	40, 31, 22, 04	40, 31, 22	40, 31	
Coil power supply	AC/DC 24 V, 48 V, 110 V, 230 V	AC/DC 24 V, 48 V, 110V, 230 V	AC/DC 24 V, 48 V, 110 V, 230 V	AC/DC 24 V, 48 V, 110 V, 230 V		AC 24 V, 48 V,110 V, 230 V	

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.

IP 20 protection - guards providing IP 40 protection of all contactor terminals are available upon request.

It is possible to connect auxiliary contact VSK-11 and VSK-20 to the contactors VS220, 425,440, 463.

Installation on DIN rail or on panel.

INSTALLATION CONTACTORS

INSTALLATION CONTACTOR WITH MANUAL CONTROL





Technical parameters	VSM220	VSM425
Number of poles	2	4
Load	20 A	25 A
Configuration of contacts NO/NC	20, 11, 02	40, 31, 22, 04
Coil power supply	AC 12 V, 24 V, 42 V, 48V,	AC 12 V, 24 V, 42 V, 48V,
	110 V, 127 V, 230 V	110 V, 127 V, 230V
	not only basic functions but They are used to switch acc heating and service hot wat Optical indicator of on - off	umulation appliances for er heating. status. y contacts can be connected

INSTALLATION CONTACTORS



1: by sliding the switch from AUTO to position 1, the switching contacts are closed and the NC contacts are open. This lasts until the following impulse to the contactor coil.

AUTO: normal function of the contactor as an installation contactor without manual control

O: contacts are constantly disconnected (switching contact) or are constantly switched on (NC contact) regardless of voltage. Optical status indicator switched on/off.

WIRELESS INTELLIGENT ELECTRO-INSTALLATION



















Wireless electro-installation

What are the benefits of using wireless control?

- Remotely switching of home appliances or electrical devices
- Light dimming, light scenes
- Controlling shutters, blinds and internal window blinds
- Controlling the entrance gate and garage door
- Manual or automatic control according to a pre-set program
- Switching on/off home appliances depending on the response of sensors
- Response to (undesired) opening a window or a door
- Response to the movement of people (authorized and unauthorized)
- Saving energy thanks to lighting and heating regulation



RF Control - Wireless RF system is a unique solution of intelligent electrical installation especially for reconstructions of houses, apartments or wiring extensions. Installation can be performed easily without breaking or cutting into the walls. Units (actuators) can be installed directly into suitable wall boxes, lighting covers, switchboards and wherever installation allows you to do so.

Flexible location: ideal for installing in existing buildings, as well as for refurbished and new buildings: thanks to RF Control, you are not limited by the location of a switch, for instance when moving furniture. The wireless wall switch button may be glued to glass, mounted on a beam or just placed on a night table and easily moved elsewhere at anytime.

Controlling lights from your terrace or opening your garage? You will have the keychain - your portable controller - always ready!

The universal transmitter module converts up to 4 potential-free external inputs (buttons) to RF signal, facilitating the connection of the following devices to the system: door switches or buttons, electronic alarm sensors (fire, smoke, door detector...), bells, etc. Property protection and safety. A flood, temperature, fire or gas leakage sensor sends a signal to the actuator, which closes the water or gas supply, switches on ventilation, etc.

Receivers (actuators) may be mounted in an installation box, under the existing switch, light covers or ceiling, or on a DIN rail inside the switchboard.

A smart design of wireless wall switch buttons with plastic, glass,wood, metal or granite finish.



Switching el. appliances



Light dimming



Heating regulation



Air conditioning control



Roller blind control



Detector control

SMART BOX FOR CONTROLLING YOUR ELECTRICAL INSTALLATION WITH YOUR SMART PHONE

It's used for controlling the electro-installation with your smart phone or tablet. Control options are through the Web browser or iHC application (Android).



RF Touch offers you complete control over the electro-installation. All these with the possibility of setting a weekly program, all automatically and wirelessly.

REMOTE CONTROL "RF PILOT" WITH OLED DISPLAY

With an excellent complement to the RF Control system, the remote control comes with an elegant design and an OLED display. Thanks to RF Pilot you have a comfortable control over the home devices and appliances.



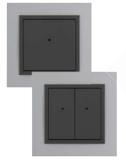




RE ac	Functions	Safety	Sockets	Irrigation	Swimming pool	Garage doors	Appliances	Shutters	Heating / Air conditioning	Lighting	Consumption
	1991010		((<u>•</u>)))		-	Ш	P		NAAA	Q	4
RFWB-20/G RFWB-40/G	Wireless switch, which can be located anywhere.		•		•	•	•	•		•	
RF Key	A handy little helper in your pocket.		•		•	•	•	•		•	
RFIM-20B RFIM-40B	The transmitter which can change your switch to wireless.		•				•			•	
RFSG-1M	Save money by switching cheap/expensive current.				•		•		•		
RF Touch/W RF Touch/B	Everything is under control with the touch control unit.	•	•	•	•	•	•	•	•	•	
eLAN-RF-003	Controlling using our smart application or web interface for your smart phone, tablet or TV.		•	•	•	•	•	•	•	•	
eLAN-RF-Wi-003	Controlling using our smart application or web interface for your smart phone, tablet or TV.		•	•	•	•	•	•		•	
RF Pilot	An inspiring design control.		•	•	•	•	•		•	•	
RFGSM-220M	Controlling and information are in your mobile phone.	•	•	•	•	•	•	•	•	•	
RFRP-20	Repeater for radio signal prolongation.		•	•	•		•		•	•	
RFSA-11B RFSA-61B	Switching appliances and lights with time functions.		•	•	•		•		•	•	
RFSA-62B	One actuator controls the two lighting circuits.		•	•	•		•		•	•	
RFSA-61M	Switching actuators for solutions to the switchboad, switching the socket circuits.		•	•	•		•		•	•	
RFSA-66M	Switching actuators for solutions to the switchboad, switching the socket circuits.		•	•	•		•			•	
RFSAI-61B	Features an external terminal to connect a wire button (a combination of wired and wireless electrical installation).			•			•		•	•	
RFSC-11 RFSC-61	Socket implementation - simple solution for switching the fan and other appliances.			•	•		•		•	•	
RFUS-11 RFUS-61	Switching in demanding environments (cellars, greenhouses, bathrooms).		•	•	•	•	•	•	•	•	
RFJA-12B	Controlling blinds, garage doors, shutters and awnings.					•		•			
RF-RGB-LED-550	Embedded RF module.									•	
RF-White-LED-675	Solutions for dimming LED strips.									•	
RFDA-73M/RGB	Dimmer for placing in the ceiling or in an installation box.									•	
RFDA-11B RFDA-71B	Dimmer intended to be mounted in the ceiling or into the installation box.									•	
RFDEL-71B RFDEL-71M	Universal dimmer for all types of loads.									•	
RFDSC-11 RFDSC-71	Simple solution for dimming your lamps.									•	
RFSOU-1	Automatically controls the brightness in the room.							•		•	
EMDC-64M	Control unit for DALI and DMX.									•	
RFATV-1	Wireless thermo-valve powered by batteries, it is ideal solution for radiators.								•		
RFSTI-11/G	It measures the temperature and at the same time monitors the critical floor								•		
RFSTI-11B	value. It measures the temperature and at the same time monitors the critical floor value.								•		
RFTI-10B	For sending information about the temperature. Placed any where thanks to				•				•		
RFTC-10/G RFTC-50/G	battery power. Digital controllers. The quick solution for heating control.								•		
RGTC-100/G RFDAC-71B	It controls thermodrives and serves for dimming fluorescent tubes.								•	•	
RFSF-1B	Protection against flooding.	•									
RFPM-2	Energy consumption indicator.										•



WIRELESS WALL CONTROLLER - KEYCHAIN CONVERTER CONTROLLER - CONVERTER CONTROLLER CONVERTER









WIRELESS CONTACT

CONVERTER



WIRELESS REMOTE CONTROLLER WITH DISPLAY

Technical parameters	RFWB-20/G RFWB-40/G	RF-KEY/B RF-KEY/W	RFIM-20B RFIM-40B	RFSG -1M	RF PILOT
Number of channels*	2 4	4	2 4	1	40
Power supply	3 V battery CR 2032	3 V battery CR 2032	1 x 3V bat CR 2477 2 x 3V bat CR 2032	110-230 V AC / 50-60 Hz 12-24 V AC/DC / 50-60 Hz	2 x battery 1.5V AAA / R03
Mounting	on surfaces	any	in an installation box	for independently mounting	any
Design	LOGUS ⁹⁰	keychain	MINI	1-MODUL	remote control
* Enable to control units independently of each other	The wireless controller is used to control switches and dimmers (lights, gate, garage door, blinds, etc.). The fl at design with level base makes it ideal for fast installation on any surface (fi xation with adhesive or screws in the installation box).	The key alarm is used to control switches and dimmers (lights, gate, garage door, blinds, etc.). Designed in black and white with laser printing.	RFIM-20B: the wireless contact converter changes your existing button / switch to a wireless one. Two inputs enable control of two units independent. RFIM-40B: the wireless contact converter changes your existing button to a wireless one. Four inputs enable control of four units independently.	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.	The RF Pilot remote control is a central controller for switching electrical appliances and equipment, dimming lights, controlling blinds, etc. Display of room temperature, battery status, date and time directly on display. Bidirectional communication, transmits and receives commands and displays the status of units.

			SYSTEM UNITS	5	
	WIRELESS TOUCH UNIT	SMART RF BOX	CONTROL APPS FOR SMARTPHONES	MULTIFUNCTIONAL GSM COMMUNICATOR	REPEATER TO EXTEND THE RANGE
	AWARDED AWARDED AWARDED		Garage		
Technical parameters	RF TOUCH-W RF TOUCH-B	eLAN-RF-003 eLAN-RF Wi-003	iHC-MARF iHC-MIRF	RFGSM-220	RFRP-20
Number of channels*	40	40	40	4	-
Power supply	110-230 V AC, from the side 12 V DC 100 - 230 V AC	10 - 27 V DC / 10 - 27 V DC / 200 mA SELV 300 mA SELV	-	11 - 30 V DC	230-250 V AC / 50-60 Hz 120 V AC / 60 Hz
Mounting	on surfaces in box	any	-	for independently mounting	plug into a socket
Design	LOGUS ⁹⁰	design box	**	3-MODUL	box with plug-in socket
* Enable to control units independently of each other ** optimized for devices with a display resolution of 800x480	The wireless touch unit RF Touch is a central controller for heating, switching electrical appliances and equipment, dimming lights, controlling blinds, etc. It transmits and receives commands from units and processes set programs for automatic control. Thanks to bi-directional communication, it visualizes the current status of individual units.	eLAN-RF-003: is connected by network cable LAN to the home network (router) and communicates with your smart phone. eLAN-RFWi-003: is connected to the home network (router) via the Wi-Fi network and communicates with your smart phone. Connection to the home network is also possible via network LAN cable.	Control application for smart phones with Android operating system - iHC MARF and pfor smart phones iPhone - iHC MIRF. The application iHC-MARF/ iHC-MIRF allows you to control your home easily by smartphone.	The multi-function GSM communicator is used for remote switching of heating, lights, gate, garage door, etc. GSM communicator can be used in several ways, which can be combined. Settings are performed by SW Connect 1 via mini USB connector.	Radio frequency signal repeater this signal repeater is used to extend the range between the controller and unit by up to 200 meters. It is designed to transmit a signal to up to 20 units. Produced in 5 designs of sockets and plugs.



SWITCHES

WIRELESS SWITCH UNIT

WIRELESS SWITCH UNIT

WIRELESS SWITCH UNIT WITH THE INPUT

WIRELESS SWITCH UNIT

WIRELESS SWITCH UNIT











Technical parameters	RFSA-11B RFSA-61B	RFSA-62B	RFSAI-61B	RFSA-61M	RFSA-66M
Number of contacts	1x NO (AgSnO ₂)	2x NO (AgSnO ₂)	1x NO (AgSnO ₂)	1x changeover (AgSnO ₂)	3x chang. (AgSnO ₂), 3x NO (AgSnO ₂)
Rated current	16 A / AC1	8 A / AC1	16 A / AC1	16 A / AC1	8 A / AC1
Load	4000 VA / AC1, 384 W / DC	2000 VA / AC1	4000 VA / AC1, 384 W / DC	4000 VA / AC1, 384 W / DC	2000 VA / AC1
Power supply	230 V AC/50-60Hz 120 V AC/60Hz 12-24V AC/DC/50-60Hz	230 V AC/50-60Hz 120 V AC/60Hz 12-24V AC/DC/50-60Hz	230 V AC/50-60Hz 120 V AC/60Hz 12-24V AC/DC/50-60Hz	110-230 V AC/50-60Hz 12-24V AC/DC SELV	110-230 V AC/50-60Hz 12-24V AC/DC SELV
	The switching unit with 1 outp appliances, lights (easy to inte doors or gates). The BOX desig installation box, a ceiling or co	grate it to control garage gn lets you mount it right in an	The switching unit with 1 output channel is used for controlling appliances and lights. It is possible to	RFSA - 61M: the switching uniused for controlling appliance: RFSA - 66M: the switching unused for independent control	s, sockets or lights. 1-MODUL. it with 6 output channels is

٠,							
ı	Switching	Output		Rated current		Number of functions	
ı	actuators	1 channel	2 channel	16A	8A	1	6
Ī	RFSA-11B	•		•		•	
Ī	RFSA-61B	•		•			•
	RFSA-62B		•		•		•

of sockets and plugs.

and lights. It is possible to connect the existing button to the internal terminal in the wiring. The BOX design lets you mount it right in an installation box, a ceiling or controlled appliance cover.

used for independent control of up to 6 appliances, sockets or lights. 3-MODUL.

The package includes an internal antenna AN-I, in case of locating the element in a metal switchboard, you can use the external antenna AN-E for better signal reception.

wireless lamp. Luminous flux up

to 675Lm, with power 10W.

ments.

	SWITCHES		LIGH	TING
SWITCHING SOCKET	SWITCH UNIT FOR OUTDOOR USE	SWITCH UNIT FOR SHUTTERS	WIRELESS BULB	WIRELESS TWILIGHT SWITCH
Transporter (in the control of the c	NO. NO.	RF Shutter actualor RFLA-128/230V Bits Nev CTT THE Shutter actualor RF Shutter actualor RF Shutter actualor	(((RF)))	RISOU-1



6	→ RF	500-1		-
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			ELE	1
-			-	
V.		_	-	

Technical parameters	RFSC-11 RFSC-61	RFUS-11 RFUS-61	RFJA-12B	RF-RGB-LED-550 RF-WHITE-LED-675	RFSOU-1
Number of contacts	1x NO (AgSnO ₂)	1 x changeover (AgSnO ₂)	2x NO (AgSnO ₂) or contactless switch.	-	-
Rated current	16 A / AC1	12 A / AC1	8A / AC1 (not available 12-24VDC)	-	-
Load	4000 VA / AC1, 384 W / DC	3000 VA / AC1, 384 W / DC	2000 VA/AC1 (not available 12-24VDC)	-	-
Power supply	230-250 V AC/50-60Hz 120 V AC/60Hz	230 V AC/50-60Hz 120 V AC/60Hz 12-24V AC/DC/50-60Hz	230 V AC/50-60Hz 120 V AC/60Hz 12-24V DC	100-240 V AC/50-60Hz	2 x 1.5 battery AAA
	The switched socket with 1 output channel is used to control fans, lamps, heaters and appliances, which are connected by a power cord. Thanks to the socket design, installation is simple by direct insertion into the existing socket. Produced in 5 designs	The switching unit with 1 output channel is used for controlling appliances, sockets or lights. The increased IP 65 protection is suited to mounting on the wall or in harsh environments such as the cellar, garage or bathrooms.	The switching unit for blinds has 2 output channels used to control garage doors, gates, blinds, awnings, etc. RFJA-12B/230V(120V): connection of switched load 2 x 8A (2 x 2.000 W). RFJA-12B/24VDC: contactless quiet switching.	The lamp has an implemented wireless unit, which receives commands from system units of iNELS RF Control (link) and sends a signal for visualization of the current status ON/OFF, brightness, RF-RGB-LED-550; colored lamp. Luminous fl ux up to 550Lm, with power 9W. RF-White-LED-675; white	The wireless twilight dimmer measures the light intensity and based on a set value, it sends the command to switch on the lights or pull the blinds up or down. The increased IP 65 protection is suited to mounting on the wall or in harsh environ-



DIMMERS UNIVERSAL DIMMER UNIVERSAL DIMMER DIMMER FOR COLOURED R-L-C DIMMER DIMMING SOCKET (FLUSH MOUNTED) (DIN RAIL MOUNTED) (RGB) LED STRIPS C (ED ES L C LED ESL RFDSC-11 RFDSC-71 Technical parameters RFDEL-71B RFDA-73M/RGB RFDEL-71M Power output 2 x MOSFET 2 x MOSFET 2 x MOSFET 2 x MOSFET 3 x MOSFET Power supply 230V AC / 50 Hz | 120V AC / 60 Hz | 230V AC / 50 Hz | 120V AC / 60 Hz | 230V AC / 50 Hz | 120V AC / 60 Hz | 230-250V/50-60Hz | 120V AC / 60 Hz | 230V AC / 12-24 V DC stabilized Rated current 3 x 5 A R; L; C max. 250 W | 150 W R; L; C; LED; ESL max. 160W|80W* R; L; C; LED; ESL max. 600 W | 300W* R; L; C; LED; ESL 300W | 150W* LED, RGB LED Load The halogen dimmer is used The universal built-in dimmer The universal modular dim-The dimmed socket is used The dimmer for LED strips is * capacity for power factor to regulate light sources: is used to regulate light mer is used to regulate light to control light sources that used for independent control $\cos \phi = 1$. sources: R, L, C, ESL, LED. The power factor of dimmable R – classic lamps, L – halogen sources: R, L, C, ESL, LED. are connected by power of 3 single-color LED strips or Thanks to setting the min. LEDs and ESL bulbs one RGB LED strip. The expancord - especially lamps: R, lamps with wound trans-Control can be performed by: brightness by potentiometer, ranges from $\cos \phi = 0.95 \text{ up}$ former, C – halogen lamps a) Controllers and Sustem L. C. ESL. LED. Thanks to the ded selection of control modes you will eliminate flashing of to 0.4. An approximate value with electronic transformer. units iNELS RF Control socket design, installation enables it to be combined with: the LED and ESL light sources. of maximum load mau be RFDA-11B: single-function b) by control signal O(1)-10V is simple by direct insertion a) Controllers and System Connection of the existing obtained by multiplying the into the existing socket. Prodimming, ON/OFF. c) potentiometer units iNELS RF Control, b) by button on the control input load capacity of the dimmer RFDA-71B: multi-function 6 control signal O(1)-10V, c) by "S" enables combination of wireless control with classic d) existing button in the duced in 5 designs of sockets by the power factor of the connected light source. light functions. installation. and plugs. connecting to iNELS BUS using (wired) control. a DAC ballast.

CONVERTER INELS -DALI/DMX



ANALOG CONTROLLER

DIMMERS



SWITCH UNIT WITH A

TEMPERATURE SENSOR



TEMPERATURE CONTROL

SWITCH UNIT WITH A

TEMPERATURE SENSOR



WIRELESS TEMPERATURE

SENSOR

	(!) new	(-10V)			
Technical parameters	EMDC-64M	RFDAC-71B	RFSTI-11B	RFSTI-11/G	RFTI-10B
Output	DALI, DMX	0 (1)-10V; 1x AgSnO ₂ , switches the phase conductor	1x NO (AgSnO ₂)	1x NO (AgSnO ₂)	-
Power supply	AC 100 - 250V / 50 Hz	110 - 230 V AC / 50 - 60 Hz	230 V AC/50-60Hz 120 V AC/60Hz 12-24V AC/DC/50-60Hz	110-230 V AC / 50 - 60 Hz	1 x 3V battery CR 2477
Range in open space	up to 100 m	up to 200 m	up to 160 m	up to 160 m	up to 160 m
Design	3-MODUL	MINI, in an installation box	MINI, in an installation box	LOGUS ⁹⁰	MINI, in an installation box
	The unit EMDC-64M is designed to control DALI electronic ballasts and DMX receivers from the iNELS system. Selection of control (RF/EB/M) and the controlled (DALI/DMX) interface is performed using DIP switches on the front panel of the unit.	The analog controller with output 0(1)-10V is used for: a) dimming fl uorescent lamps (using a dimmable ballast), b) dimming LED panels (when using a suitable dimmed source up to 50 units LP-6060-3K/6K), c) Control of thermal actuators, d) control of other controllers	The temperature unit measures the temperature by external sensor, and controls the heating circuit (electric underfl oor heating, air conditioning, boiler, etc.). These can be combined with system units: smart RF box eLAN-RF, wireless controller RFTC-50/G or touch unit	The thermo-regulation drive measures the (internal/external) temperature by external sensor, and controls the heating circuit (electric underfloor heating, air conditioning, boiler, etc.). Manual control of temperature directly using buttons on the unit. Switch design (design LOGUS ⁹⁰) offers mounting in an installation box.	The temperature sensor measures the temperature by internal sensor, which it sends in regular intervals to the system unit. Option of connecting an external sensor to the terminals THERM. The temperature sensor can be placed anywhere thanks to battery power.



TEMPERATURE CONTROL MONITORING UNITS WIRELESS FLOOD DETECTOR WIRELESS THERMOVALVE WIRELESS TEMPERATURE CONTROLLERS **ENERGY METER** ⁻⁻225° 225 RFTC-100/G Technical parameters RFTC-10/G RFTC-50/G RFATV-1 RFSF-1B RFPM-2 Number of contacts 1 NO/NC switches L1 2 x 1.5 V battery AA 100 - 230 V AC / 50-60Hz Power supply 2 x 1.5V battery AAA 100-230VAC/50-60 Hz 1 x 3V battery CR 2477 up to 100 m Range in open space up to 100 m up to 100 m up to 160 m design box Design LOGUS90 MINI, in an installation box 3-MODUL RFTC-10/G: The simple controller in design LOGUS⁹⁰ measures The wireless thermostat Upon detecting water, the fl It measures electricity the room temperature by internal sensor, and based on the measures room temperature ood detector immediatelu consumption and sends it set temperature, it sends a command to control heating. The by internal sensor; based on a sends a signal to the switched to the system unit where it backlit LCD display displays the current and set temperature, set program in the system unit, which further displays the consumption. status (ON/OFF), battery status, etc. unit, it opens / closes the switches on a pump, GSM Data is stored in the internal RFTC-50/G, RFTC-100/G: The wireless controller in design LOGUS® measures the room temperature by internal sensor, radiator valve. gate or closes a pipe valve. memory, possibility of It can be combined with one integrating an SD card for Option of connecting an and based on the set temperature, it sends a command for of three sustem units: smart heating / cooling. The backlit LCD display displays the current RF box eLAN-RF, wireless external probe FP-1 not longer data storage. included in supply - max. wire and set temperature, status (ON/OFF), battery status, day of controller RFTC-100/G or the week, current time, etc. touch unit RF Touch. length 30m. Manual control by buttons on the unit.







KIT TO CONTROL LIGHTS VIA SMARTPHONE

It's never been easier to set the appropriate ambience for reading a book or, watching a movie or a party with friends. All you need is wireless bulbs and a smart box, then you can control every device from the comfort of your smartphone, tablet or smart TV. You can't just control colored or white light bulbs, but also other appliances too.



KIT FOR CONTROLLING IR DEVICES VIA A SMARTPHONE

Thanks to the Smart IR box, you can control the home appliances via a Smartphone. Thus you no longer need a bunch of controllers, you do not have to look for them, and you do not need to replace the battery. You always stick your phone in your pocket, always at hand. Moreover, you can control other devices which are placed in another room (e.g. you can turn off the TV in the children room).

RADIO & MUSIC IN THE SWITCH 1× LARA RADIO

KIT FOR CONROLLING MUSIC, WHICH PERFECTLY FITS IN YOUR HOME'S INTERIOR

LARA is a music and internet radio player. We have registered 40 favorite Czech radios stations as presets stations, however you can easily change it using the configurator. LARA plays the music, which is stored in the NASA storage or in the external source (phone, MP3 player) that is connected through a cable on the front panel of the device. Built-in amplifier that allows direct connection of speakers (in the same LOGUS90 design) or allows connection of external in-wall or ceiling speakers.



CONTROL YOUR HOUSE VIA A SMARTPHONE

The kit "House under the thumb" which you're holding in your hands is the basic starter kit for you, which would like to make your home more comfortable. The starter kit consists of 2 colored wireless bulbs, 1 x switching socket and 1 x camera, which allows you to try the basic units of iNELS RF Control – wireless solution. Everything is preset to ensure fast and easy control.

VIRTUAL KITS

The virtual kit is a set of wireless units that are packed individually (as an individual product), but on the other hand, they are preset together (they are meant to work together) to ensure a simple installation. They are offered at a discounted price and it is not possible to separate any unit from this price.

UNDERFLOOR HEATING - BY WATER

Any wireless temperature regulator measures the room temperature, it compares with set temperature and time program, then sends a command to switch on the units. Based on the command from the temperature regulator, 6-channels switching unit is able to control up to 6 thermo-valves corresponding to heating circuits.

KIT CONSISTS OF:

Wireless temperature controller RFTC-50/G, wireless switch unit (6 outputs) RFSA-66M, thermodriver TELVA/230V.

UNDERFLOOR HEATING - BY ELECTRICITY

Temperature and switching unit (two in one) measures the floor temperature via external sensor (built-in). Then it sends data to wireless touch unit RF Touch, which compares it with the temperature set along with the time schedule and then sends a command back to switch on/switch off the heating circuits. It is possible to connect up to 4 temperature/switching units.

Advice 1) If just one reference temperature is enough for you, so then it can be measured by temperature sensor RFTI-10B and to switch up to 6 independent heating circuits you can use 6-channels switching actuator RFSA-66M.

Advice 2) The wireless unit RF Touch can be replaced by Smart RF box and all can be controlled via your smartphone. Both solution can be used together.

KIT CONSISTS OF:

Switching actuator with thermosensor RFSTI-11/G, Wireless touch unit RF Touch.







KIT TO CONTROL HEATING VIA WIRELESS RF TOUCH UNIT

Includes 3 wireless thermovalves that are installed instead the standard radiator valves. It measures the room temperature and sends it to the RF Touch control unit. RF Touch compares it with the temperature set along with time schedule and sends a command to open or close the valve. You can set heating programs in the weekly schedule, separately for each circuit (room).



KIT FOR WIRELESS TEMPERATURE REGULATION IN THE HOME

This kit enables convenient and quick control of heater, oil heater, panel heater or portable air conditioner. Just plug the device into controlled switching sockets and appropriately place your controller RFTC-50/G. The desired temperature is set on the controller, that compares it with the current record and it sends a command to turn the device ON.



KIT TO CONTROL HEATING VIA SMARTPHONE

It includes 3 wireless thermovalves that are installed instead the standard radiator valves. They measures the room temperature and send it to the Smart RF box. The Smart RF box compares it with the temperature set along with the time schedule in the application of your phone and sends a command to open or close the valve. You can always turn on the heating circuit via an app, whether you're at home, or just going to visit your cottage and do not want to come to unheated place.



VIRTUAL KITS

AGAINST THE FLOOD

A wireless sensor monitors the water leaks or flooding in the critical places (basement, pits, shafts, bathroom, laundry room,...) and sends immediately a command to the switching unit to close the solenoid valve of the main water supply. You can be also informed of that accident through a GSM gateway by sending SMS text messages.

The KIT CONSISTS OF:

Switch unit RFUS-61, wireless flood detector RFSF-1B, flood probe FP-1.

We recommend: solenoid valve: MPW SS 304 - 1/2 (3/4) 230V AC.

COLORED RGB LED STRIP

The app in your smartphone can send (through RF smart box) the commands to the dimming unit to which the RGB strip is connected. From your app it is possible to switch ON/OFF, to set the color or to run the scene of automatic color blending.

Advice 1) The colored RGB strip can be controlled through RF Pilot, by controllers RFWB-20/40, RF Key,...

Advice 2) If you do not want the colored RGB strip, we can replace it by monochromatic (warm white, cool white, red, ...). Then you can connect 8 m of monochromatic strip (power 7.2W/m) to RFDA-73M/RGB to each output.

KIT CONSISTS OF:

Smart RF box, dimmer RFDA-73M/RGB, 2 x 5m coloured RGB strip 7.2W/m, power supply 230V/12V/100W.



INTELLIGENT ELECTRO-INSTALLATION



















BUS electro-installation

What are the benefits of bus controlling?

- Save energy by regulating lighting and heating properly
- Control of blinds, awnings, exterior or internal window shutters
- Dimming lights, lighting scenes
- Control of appliances or electrical devices
- Control access gates, garage doors
- Logical and central functions (exit button, ...)
- Manual and automatic control mode
- Preventing undesirable opening of a window or a door
- Responding to the movement of people (authorized and unauthorized)
- Remote monitoring via smartphone, tablet or laptop
- Possibility to control via the TV screen
- Integration of third-party devices (cameras, air conditioning, ...)



When you build a new house or decide on a complex reconstruction, the bus solutions of iNELS BUS system represents a unique solution of electro-installation. The system offers wide range of functions which bring a pleasant comfort to the users. It also allows to integrate each technology in the house and brings savings. The way of controlling can be changed according to user requirements, the electro-installation can also be extended.

Using of applications to smartphones or tablets is very popular. They provide efficient and easy way to control your home during your absence.

iNELS BUS System allows you to integrate and control most of technologies used in your house. It saves your money spent on energy. You don't need to wonder whether it is summer or winter. Simply set the desired the temperature in the room and your house will automatically know what to do.

The main idea of intelligent living is saving. The house is able to switch off the lighting and heating in the room at the time of your absence. In winter it pulls up the blinds, what allows the house warming by sun rays. Vice versa in the summer the blinds are pulled down earlier what reduce the switching frequence of energy-intensive air conditioning.

Flood, temperature, fire or gas leak detector sends command to close the water supply, gas, ventilation, etc.

The really useful features is also a simulation of presence when you are on vacation.

To control the electro-installation you can use wall-switches, glass touch switches, touch display, smartphone, tablet or TV screen. So you can easily control whole house from one place. Do you like to listen music, to watch movies or to view pictures? All these data can be available from anywhere in your house thanks to iNELS Multimedia. In addition you can easily turn off the children's television in other room. Whole house can be controlled via TV screen.



Switching el. appliances



Light dimming



Heating regulation



Air conditioning control



Roller blind control



Detector control



Multimedia

CONTROL YOUR ELECTRO-INSTALLATION VIA SMARTPHONE

Get your house under control thanks the Apps in your smartphone or tablet. The Apps have been developed for these operating systems – Android and iOS (iPhone, iPad).



The EST unit with colour touch screen allows you to control heating, adjust the colour of LED strips and control lighting, shutters, other appliances or scenes. This unit is especially suitable for areas/rooms where would otherwise be necessary to use a bunch of controllers.

CONTROL THROUGH A TV

From the comfort of your couch you can easily control the whole house, you can adjust the temperature in the given room or turn the lights OFF in your garage. The multimedia extension allows you to view pictures from your holiday, play the movie in the other room or listen the radio or music. All your pictures, movies and music will be stored in just one place, but available from any room in the house.









Central unit CU3 - 01M and CU3-02M



Central units CU3-01M and CU3-02M are the brain of the iNELS system, a "mediator" between user's programming environment and controllers, units and actuators connected to the bus.



- It's possible to directly connect up to 2 lines of CIB buses in to CU3-01M and CU3-02M, and on each bus we can connect up to 32 iNELS3 units.
- The main difference between CU3-02M and CU3-01M is that CU3-02M is moreover equipped by RF module which enables communication with selected units from iNELS RF Control system.
- Central units CU-01M(02M) support also peripheral units from iNELS2 thanks to external master MI3-02M/iNELS2.
- User's project and retentive data are stored in a non-volatile internal memory hereby data are backed up without the supply voltage. Real time clock (RTC) backup for 10 days.
- Power supply controlling system network voltage and the status of the backup battery.
- Possibility of setting time synchronization via NTP server.
- The RJ45 Ethernet port's connector is located on the front panel of the unit, the transmission speed is 100 Mbps.
- For CU3-01M (02M) it is possible to use 4 potential-free inputs for connecting external controllers (buttons, switches, sensors, detectors, etc.) and 2 analog inputs 0-30V.
- CU3-01M (02M) comes with OLED display that shows the current status and configuration of CU3-01M (02M) central unit.

- \bullet CU3-01M (02M) can be controlled using the directional buttons on the front panel.
- The central unit CU3-01M (02M) can be fitted with various sub-modules, which can be used for communication, e.g. RS232, RS485, etc. or can contain various combinations of inputs/outputs.
- On the front panel, the central unit is fitted with an OLED display with 128x128 resolution and direction buttons designed for navigating within the menu shown on the display.
- The OLED display displays the current status of the central unit (RUN, HALT, ERROR), date and time. Within the menu display, you can set the IP address of the central unit, date or time.
- Configuration of the unit and thereby the entire system is performed via an Ethernet interface, by means of configuration software iNELS Designer & Manager, designed for Windows XP and higher.
- You can configure the central unit remotely via the Internet (if the unit is connected to the Internet via a LAN network).
- Using the built-in webserver, remote control is possible of user functions via an Internet browser (PC, smartphone, tablet).
- By means of CU3-01M(02M) and parameterizing software IDM, it is possible remotely to upgrade firmware on a bus of connected units and of the central unit itself.

SYSTEM UNITS

POWER SUPPLY

EXTERNAL MASTER BUS CIB BUS SEPARATOR FOR SEPARA-TION FROM POWER SUPPLY CONVERTER INELS
- DALI/DMX

GSM COMMUNICATOR











Technical parameters	PS3-100/INELS	MI3-02M, MI3-02M/INELS2	BPS3-01M, BPS3-02M	EMDC-64M	GSM3-01M
Output	27.6V/3.6A, 12.2V/0.35A	2x CIB iNELS3 2x CIB iNELS2	1x CIB 2x CIB	DALI/DMX	-
Power supply	100 - 250 V AC	CIB 27 V DC	CIB 27V DC	100 - 250 V AC (100 mA)	CIB 27V DC
Rated current from CIB BUS	-	25mA (at 27V DC)	8 mA (at 27V DC) 15 mA (at 27V DC)	-	250 mA (at 27V DC)
	Is a stabilized switching power supply, with the total power of 100 W. Power supply: AC 100 - 250 V AC. Output voltage: DC/max. load: 27.6 V/3.6 A and 12.2 V/0.35A, 6-MODULE.	External master MI3-02M provides expansion of the amount of units iNELS3 connected to the central unit CU3-01M or CU3-02M for 2 times 32 units. 1-MODULE.	Units serve for impedance separation of CIB from supply voltage power. BPS3-01M allows you to connect one bus CIB. BPS3-02M allows you to connect two separate CIB1 and CIB2. 1-MODULE.	Converter iNELS-DALI/DMX for control of electronic ballasts DALI and receivers DMX, up to 64 independent electronic ballasts DALI, up to 32 receivers DMX (with repeater up to 64). 3-MODULE.	It serves for communication with the iNELS system via commands sent in short SMS messages from mobile phone GSM. Communication interface: system bus EBM. 3-MODULE.



SWITCHING ACTUATORS

SWITCHING ACTUATOR (2-CHANNEL)

SWITCHING ACTUATOR (4-CHANNEL)

SWITCHING ACTUATOR (6-CHANNEL)

SWITCHING ACTUATOR (12-CHANNEL)

SWITCHING ACTUATORS (1-CHANNEL / 2-CHANNEL)











Technical parameters	SA3-02M	SA3-04M	SA3-06M	SA3-012M	SA3-01B	SA3-02B
Number of contacts	2 x changeover	4 x changeover	6 x changeover	12 x NO	1 x NO	2 x NC
Switching current	16 A / AC1	16 A / AC1	8 A / AC1	8 A / AC1	16 A	8 A
Switching output	4000 VA/AC1, 384 W/DC	4000 VA/AC1, 384 W/DC	2000 VA/AC1, 192 W/DC	2000 VA/AC1, 192 W/DC	4000 VA	2000VA
Power supply	CIB 27 V DC	CIB 27 V DC	CIB 27 V DC	CIB 27V DC + 230V AC (120V AC)	CIB 2	7 V DC
Rated current from CIB BUS	50 mA (at 27V DC)	70 mA (at 27V DC)	60 mA (at 27V DC)	5 mA (at 27V DC)	30 mA (at 27V DC)	50 mA (at 27V DC)
	Two-channel switching actuator for switching appliances and controlling roll shutters/blinds 2x switching	Four -channel switching actuator for switching appliances and control roll shutters/blinds 4x switching	Six-channel switching actuator for switching appliances, e.g. lighting and thermal actuators. 6x switching	Twelve-channel switching actuator for switching appliances, e.g. lighting and thermal actuators, 12x switching	SA3-01B: Single-cactuator for switch e.g. lighting, therr sockets, 1x switch	thing appliances, nal actuators and

contact 16 A, LED relay status indicator, manual control 1-MODULE.

contact 16 A, LED relay status indicator, manual control. 3-MODULE.

contact 8 A, LED relay status indicator, manual control. 3-MODULE.

contact 8 A, LED relay status indicator, manual control. The actuator is powered via CIB bus and simultaneously by an AC voltage <u>SA3-012M</u> - 230V AC. <u>SA3-012M/120V</u> - 120V AC. 6-MODULE.

SA3-01B: Two-channel switching actuator for switching appliances and controlling roll shutters/ blinds, 2x switching contact 8 A. 1x temperature input TC/TZ, mounting into an installation box.

	DIM	ING ACTUAT	TORS		CONVERTERS	5
	DIMMING ACTUATOR (2-CHANNEL)	DIMMING ACTUATOR (2-CHANNEL)	DIMMING ACTUATOR (2-CHANNEL)	ANALOG-DIGITAL CONVERTER	DIGITAL-ANALOG CONVERTER	DIGITAL-ANALOG CONVERTER
	R L C ED ESL	INTELL (19)	INCLUSION AND AND AND AND AND AND AND AND AND AN	inau Correction	DACS-04B COURT OF STREET	ineu Processo
Technical parameters	DA3-22M	LBC3-02M	DCDA-33M/RGB	ADC3-60M	DAC3-04B	DAC3-04M
Output		2x 0(1)-10V/10 mA				
	2 x MOSFET	2x changeover 16 A/AC1	3 x MOSFET	-	4 x 0(1) - 10 V / 10 mA	4 x 0(1) - 10 V / 10 mA

Technical parameters	DA3-22M	LBC3-02M	DCDA-33M/RGB	ADC3-60M	DAC3-04B	DAC3-04M
Output		2x 0(1)-10V/10 mA				
	2 x MOSFET	2x changeover 16 A/AC1	3 x MOSFET	-	4 x 0(1) - 10 V / 10 mA	4 x 0(1) - 10 V / 10 mA
Input	2 x buttons, 1 x temperature	-	-	6 x analog.; 0-10V; 0-20mA	1 x temperature	1 x temperature
Output capacity	(230V) 400 VA*, (120V) 200 VA*	relay: 4000 VA/AC1, 384W/DC	3x 50 W	-	-	-
Power supply	CIB 27VDC+230VAC(120VAC)	CIB 27 V DC	CIB 27VDC +12-60 V	CIB 27 V DC	CIB 27 V DC	CIB 27 V DC
Rated current from CIB BUS	5 mA (at 27V DC)	60 mA (at 27V DC)	40 mA (at 27V DC)	50 mA (at 27V DC)	50 mA (at 27V DC)	50 mA (at 27V DC)
* for each channel	Universal dimming two-channel actuator for dimming ESL, LED and RLC loads, 2x	Analog two-channel actuator for controlling dimmable electronic	Dimming actuator is designed for dimming RGB and LED light sources with	Converter of analog signals on bus (e.g. for connecting a weather	Is a converter of a digital signal to an analog voltage signal, O(1)-10 V.	Is a converter of a digital signal to an analog voltage signal, O(1)-10 V.

400 VA, 2x controlling input, 1x temperature input TC/TZ. The actuator is powered via CIB bus and simultaneously by an AC voltage <u>DA3-22M</u> - 230V AC. <u>DA3-22M/120V</u> 120V AC. 3-MODULE.

ballasts, 2x analog signal 1-10V, 2x switching contact 16 A, LED indicator of relay status,

power supply 12-24 V DC, which are controlled by variable current. Controlling interface DMX, DALI and CIB. 3 channels, max. 2A on one channel, 3-MODULE.

station), 4x analog input, 2x temperature input TC, TZ, Ni1000, Pt1000 or Pt100. 3-MODULE.

for control of electronic ballasts, thermal actuators, etc., 4 channels, 1x temperature input TC/ TZ. For mounting into an.

for control of electronic ballasts, thermal actuators, etc., 4 channels, 1x temperature input TC/TZ. 3-MODULE



	CLUITTED		T 1	LIEDAAO INIDI	ıT	
	SHUTTER		LI II	HERMO INPL	JI	
	SHUTTER ACTUATOR (2-CHANNEL)	BINARY INPUT UNIT	BINARY INPUT UNITS	BINARY INPUT UNIT	TEMPERATURE INPUTS	THERMO INPUT (6-CHANNEL)
	JASOBODO GISTO PILINELS*	ineu (a)	1M3-20B 012070 • inets*	IMS-BOB U2000 CAR EXERCISE	TO DO INPLUT TO TO THE PROPERTY OF THE PROPER	INDUSTRIAL PROPERTY OF THE PRO
Technical parameters	JA3-02B/DC	IM3-140M	IM3-20B IM3-40B	IM3-80B	TI3-10B TI3-40B	TI3-60M
Output MOSFET	12 - 24 V DC (0.85 A)	-	-	-	-	-
Number of inputs	2 x AIN / DIN	14x binary	2x binary 4x binary	8x binary	1x temper. 4x temper.	6x temperature
Temperature sensors	1x TC/TZ	-	1x TC/TZ	1x TC/TZ	TC, TZ, Ni1000, Pt1000, Pt100	TC, TZ, Ni1000, Pt1000, Pt100
Power supply	CIB 27 V DC	CIB 27 V DC	CIB 27 V DC	CIB 27 V DC	CIB 27 V DC	CIB 27 V DC
Rated current from CIB BUS	60mA (at 27V DC)	25 mA (at 27V DC)	20 mA (at 27V DC)	20 mA (at 27V DC)	20 mA (at 27V DC)	45 mA (at 27V DC)
	Actuator for control of drives of blinds, roll shutters, awning with power supply 24 V DC, 1x temperature input TC/TZ. Mounting into an installation box.	The binary input unit is designed to connect up to 14 devices with potential free contact (PIR, button, etc.), 14x binary input, output for power supply detectors 12 V DC/150 mA. 3-MODULE	Binary input units are used for connection of 2 or 4 devices with potential-less contacts (PIR, button, etc.), 1x temperature input TC/TZ, output for power supply detectors 12 V DC/75 mA, mounting into an installation box.	Binary input units are used for connection of 8 devices with potential-less contacts (PIR, button, etc.), 1x temperature input TC/TZ, output for power supply detectors 12 VDC/75 mA, mounting into an installation box.	For connecting 1x/4x temperature sensor TC, TZ, Ni1000, Pt1000 or Pt100. Mounting into an installation box.	For connecting 6x temperature sensor TC, TZ, Ni1000, Pt1000 or Pt100. 3-MODULE.

\ Λ/ΔΙΙ	LIMITS		CONTE	ROLLERS
		שוות	COLLI	OLLLING

CONTROL UNIT

WALL GLASS TOUCH CONTROLLER

TWO-BUTTON CONTROLLER

FOUR-BUTTON CONTROLLER

WALL CARD READER

DIGITAL THERMO-REGULATOR













Technical parameters	EST3	GSB3-40,GSB3-60, GSB3-80	WSB3-20	WSB3-40	WMR3-11	IDRT3-1
Number buttons	max. 12	4 / 6 / 8	2	4	2	2 (for correction temper.)
Power supply	CIB 27 V DC	CIB 27 V DC	CIB 27 V DC	CIB 27 V DC	CIB 27 V DC	CIB 27 V DC
Rated current from CIB BUS	150 mA (at 27V DC)	25-40 mA (at 27V DC)	25 mA (at 27V DC)	25 mA (at 27V DC)	50 mA (at 27V DC)	20 mA (at 27V DC)
Internal temp. sensor	-	YES	YES	YES	-	YES
External temp. sensor	-	YES	YES	YES	-	YES
	The control unit with touch screen, - buttons screen - temperature control screen - control RGB light sources screen - security keyboard screen.	Wall-mounted glass controllers with touch control are a design element in the system iNELS, built-in temperature sensor, 2x AIN/DIN for 2 potential free contacts or one temperature sensor TC/TZ.	Two-button controller, built-in temperature sensor, 2x AIN/DIN for 2 potential free contacts or one temperature sensor TC/TZ, 1 x LED indicator (red/green). LOGUS® design.	Four-button controller, built-in temperature sensor, 2x AIN/DIN for 2 potential free contacts or one temperature sensor TC/TZ, 1 x LED indicator (red/green). LOGUS® design.	Wall reader of contact- less media, 1x switching contact 8 A, two-button controller. LOGUS ⁹⁰ design.	Control unit for correction of circuit of heating/cooling ±5 °C or for direct entering of the required temperature in °C, built-in temperature sensor.

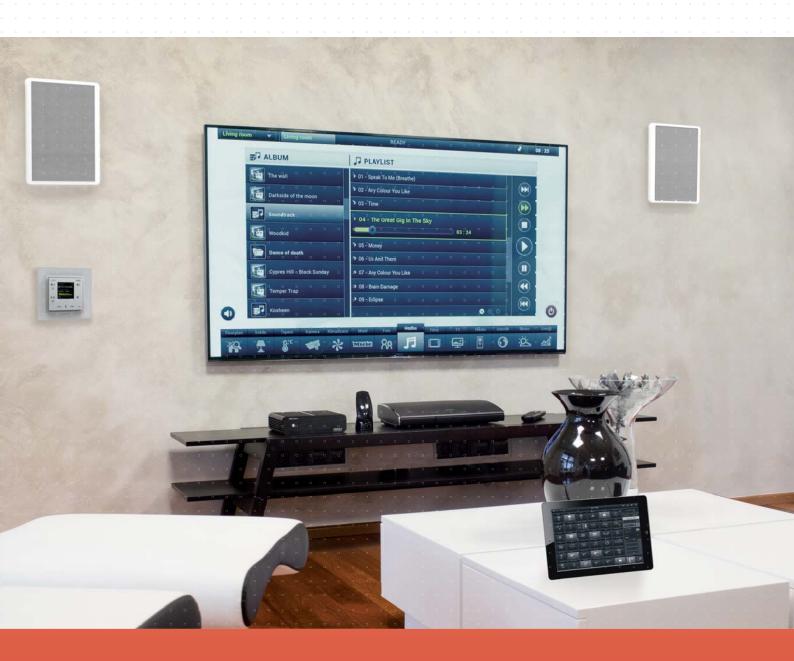




www.inels.cz/produkty/aplikace

A/V DISTRIBUTION & MULTIMEDIA





















Audio / Video a new dimension for A/V distribution

and control

The group – Audio/Video includes products which bring completely new possibilities to control music, video and home appliances.

They are not just regular controllers, but products which can fit perfectly into your electro-installation.

LARA - Internet radio with clear sounds, which can be also used like a component of home video intercom. Let LARA control your music at your entire home, control your house using just one system – use just one controller to get your house under control.

Are you watching at your table in living room and you can just see bunch of controllers? We have solution for you – smart box eLAN-IR.

Our goal is to make you happy and satisfied and feel really comfortable controlling your house.



IHC-TVC

- iNELS Home Control application enables you to control your lighting, home appliances and garage door through smart TV SAMSUNG.
- Steps to easy installation:
 - select actuators from iNELS RF Control (if you don't have them yet) to control home appliances, lighting, blinds...
 - get one of the smart boxes eLAN-RF and connect it to the
 - install an application to Samsung SMART TV iNELS Home
 - create lighting scenes and all can be controlled using your SAMSUNG TV remote controller of TV Samsung.
 - Intended only for Samsung SMART TV.

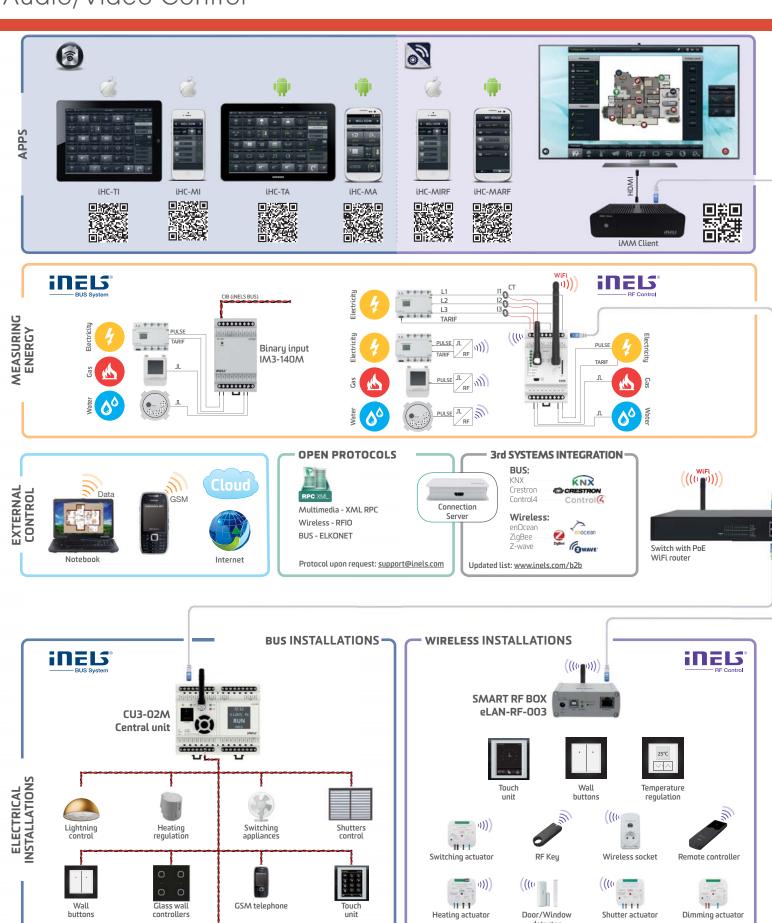
eLAN-IR-003



Cameras



- The smart box can be nicely used in two diff erent basic ways, such as:
- A part of the iNELS intelligent electrical installation system withing the range of playing multimedia from the iHC app or when an iMM shows an IR signal, it can control the TV, an amplifier and smart phone (or a tablet and gyroscopic mouse) and it serves as the sole driver of the entire system.
- An independent facility or (an IR terror drivers), which unites all drivers under one and replacing it with a smart phone "without having to use iNELS complex system".
- eLAN-IR-003 converter Ethernet commands from the infrared (IR) code.
- The Smart box can control the devices , which are controlled by the IR controller, for example: TV, VCR, satellite receiver, DVD player, amplifier, hi-fi, air conditioning, fans and others.
- In case of integrating a smart box to the iNELS system for controlling, we shoud use:
- The complex iHC application for intended iNELS system and its iMM mulimedia superstructure. The application is available for smart phones and tablets with an Android OS and also for an iPhone and an iPAD.
- The iMM application for TV screening "Video zone".
- In case of the usage as an independent device, we can use iHC-MAIR app (for Android smart phones) and iHC-MIIR (for an iPhone), also the app allows us to control more smart boxes (for example one in every place).
- $\blacksquare \ \ \text{We can control the device remotely , for example you can switch you AC on from work, without even seeing it.}$
- There is a possibility to control up to 100 IR codes.
- It supports IR codes with the frequency between 20 455 KHz.



DMX protocol

Heating actuator

RF RGB

RF LED

Door/Window

RGB stripes

Shutter actuator

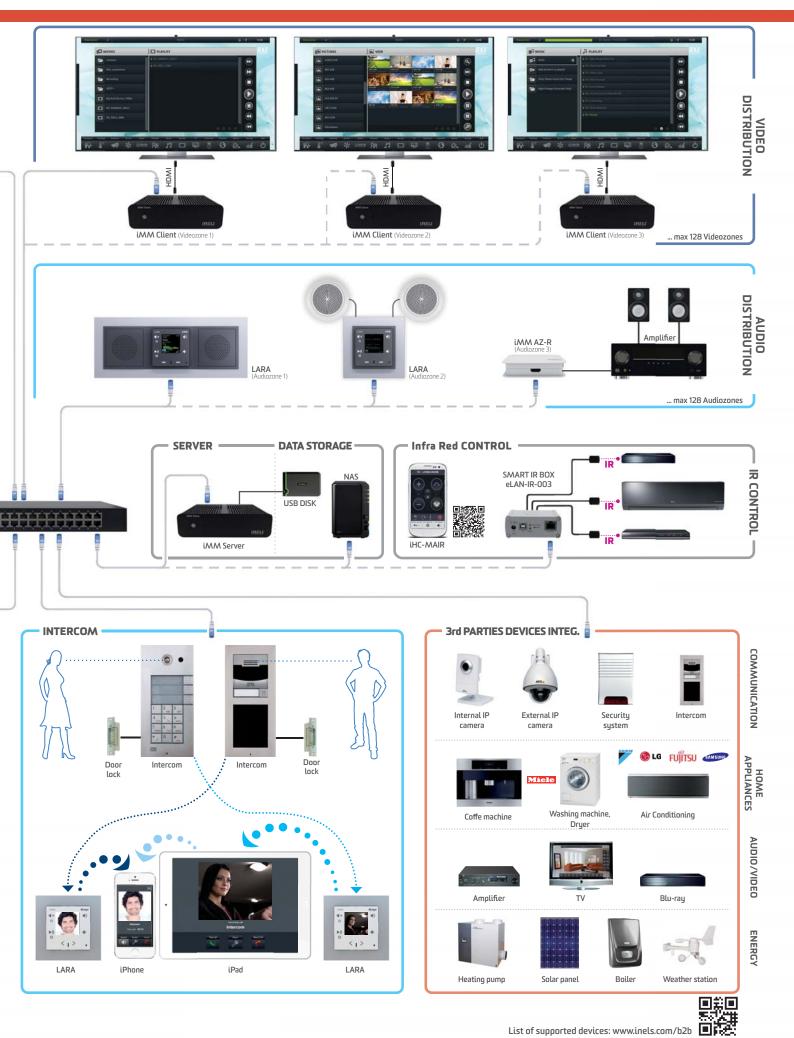
RGB panel

Dimming actuator

Motion

RGB strips

DALI protocol



List of supported devices: www.inels.com/b2b



LARA Radio











Audiozone



- A music and Internet radio player all in the dimension of a switch and a luxurious LOGUS⁹⁰ design.
- In the range of WiFi connection, LARA can play music and stream the radio, which can be saved up to 40 channels. You can pick any radio station from all over the world which is providing the
- LARA Radio can play the contents of external music source, which may be an iPhone, smart phone or eg. MP3 player. These devices are connected to the audio input 3.5mm stereo jack, which is located below the front panel
- $_{\blacksquare}$ LARA Radio also plays audio files from a central data repository, where Logitech Media Server is installed. You can also use LARA function can LARY within the complex iNELS iNELS or as a fully independent home automation device. When it's used within iNELS systém, then its being controlled by iHC applications, however, when you're using it as NAS, then LARA NAS App is
- Controlling is being done by touching the front panel (where six capacitive buttons are available) or an infrared remote control that is included with the product.
- The basic device settings, such as (the network connection, language or an audio output) is done using the display and a simple controlling menu from capacitive buttons on the front cover. Meanwhile other settings such as: (the station selection, the connection to the server, firmware updates, etc.) Is configured using a computer and software LARA Configurator.
- LARA Radio has an integrated amplifier with an output of 2 x 10 W, which greatly simplifies the installation in areas where that power is sufficient. LARA can be used for example in the kitchen sound system, bathrooms, waiting rooms, offices, reception areas, lobbies, operating rooms and wellness areas.
- LARA Radio is powered through the PoE with a maximum voltage of 27 V DC / 1000 mA, where the advantage in this case is that only one (UTP) cable is used for power supply and communication.

LARA Intercom





Music







Videote-

Intercom

Audiozone

- LARA Intercom offers users 5 different functions and expands even more options to Lara Radio music players and internet radio stations within the range of LOGUS⁹⁰ switch designs
- LARA Intercom provides an extra functionality and videophone intercom.
- Thanks to videophone function, now it is possible to have a voice communication between Lara and the sound of the door (IP Intercom), so with someone visiting and standing in front of the house, we can see that on LARA display as part of this function which increases the security feeling and safety besides of course, the comfort for the user.
- LARA Intercom is equipped with an OLED colored display with the size of 1.5", which is used to transfer images and sounds from the door camera properly. The display also shows basic information about playing music, which also serves the orientation in the menu settings, etc.
- The intercom function can also be used for communications between all the family members throughout the whole house, thanks to two way voice communications possibilities between differnt Lara units.
- LARA intercom can also play music and stream the radio, which can be saved up to 40 channels. You can pick any radio station from all over the world which is providing the data for a proper connection
- LARA intercom can also play the contents of external music source, which may be an iPhone, smart phone or eg. MP3 player. These devices are connected to the audio input 3.5mm stereo jack, which is located below the front panel
- LARA intercom can also play audio files from a central data repository, where Logitech Media Server is installed. You can also use LARA function can LARY within the complex iNELS iNELS or as a fully independent home automation device. When it's used within iNELS systém, then its being controlled by iHC applications, however, when you're using it as NAS, then LARA NAS App is available.
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- LARA Radio is powered through the PoE with a maximum voltage of 27 V DC / 1000 mA, where the advantage in this case is that only one (UTP) cable is used for power supply and communication.





Connection server iMM Audio Zone-R



Connection Server

- The connection server is providing a communication environment between iNELS BUS System with the third party devices, for which their protocols are also translated and submitted.
- The iHC appliction's environment enables us to control all these technologies from just one app.
- The inclusion Connection Server to the system can be controlled from the application iHC except bus units (lighting, blinds, heating, etc.) also IP cameras, air conditioning, recuperation or domestic appliances Miele.
- It also allows the communication with the domestic voice intercom 2N. It can also arrange the information from the weather station Giom or data from energy meters (electricity, water, gas), which is visualized in clear graphs.
- The device connection server uses the Raspberry Pi hardware and the apps requires a license relative to the MAC address of the device.
- While connecting with the devices connection server, it's recommended to use an uninterruptible power supply (UPS), which ensures that, there will be no power outage.
- As a part of the package, we also included an SD card where we previously installed Linux OS on it and its needed software equipment.
- The configuratution is happening on its own web interface, where the default IP address is not fixed. (The IP address is assigned from the DHCP server and it's needed to be known when we're connected to the network)

iMM Audio Zone-R

- The iMM Audio zone-R serves as a player for the other Audio zones where we also can integrate the iMM server to the iNELS system.
- The iMM Audio zone-R allows us to play music which is stored on the network storge, which by itself could be an iMM server or NAS (Network Attached Storage), for example: Synology.
- The music is being played through the Logitech Media Server
- We can control every iMM Audio zone-R in the system using the iHC application in any smart phone or a tablet, possibly from the iMM application TV picture, 'Video zone,'
- The Audio zone is equipped with a stereo jack of 3.5mm output for supplying to the amplifier or active speakers.
- The Audio zone can be connected via an HDMI to a TV or a monitor with speakers and play music within these devices.
- An HDMI output for the connection of the monitor to determine the IP address service (see the instructions).
- 2x USB ports, for example for connecting a keyboard during the IP address determination process.
- 1xRJ45 for the connection to the computer or to an Ethernet Network.
- The configuration is done on their own web interface with the default IP address 192.168.1.220 (see separate manual, which is available on the product packaging and www.elkoep.cz and www.inels.cz).
- The actual configuration of the iNELS system takes place on the web interface of the iMM server (iMM Control Center), more
 info on the iMM construction.
- As a part of the package, we also included an SD card where we previously installed Linux OS on it and its needed software equipment.

iMM Client / iMM Server



- The iMM device can operate in three diffent modes (the choice depends only on the SW configuration, HW is identical) and it can be used as part of a complex system of intelligent electrical installations iNELS or as an independent device for managing the multimedia in the house such as audio, video, photo, TV.
- In the iMM server mode, the iMM can be used to link almost all the different technologies in the house together and it enables us to control them all from one application which is called iNELS Home Control "iHC" which can be installed in any smart phone or tablet.
- The iMM server for the "iHC" application provides communication with the iNELS bus system, for example light control, heating, security, screening techniques and so on, even air conditionting; for example: an LG unit or a Coolmaster unit control, Daikin, Sanyo, Toshiba, Mitsubishi, Fujitsu and Hitachi. Recovery as well, such as Atrea or AirPohoda, webcameras (thanks to the ONVIF protocol, which is supported by nearly 300 brands), house hold appliances such as Miele,the entrance syllables (SIP protocol support), multimedia (audio, video, TV, photo), a weather station or the measurement of energy consumption (electricity, water, gas).
- In the iMM mode the client severs as any device such as Video zone player.
- Video zones means television, from which you can watch TV programs, view photos, play music or movies from a central data repository. To control all TVs and also amplifiers at home you only need one controller, a smart phone or tablet with the "iHC" application, possibly also a gyroscopic controller.
- Not only all the multimedia content is stored in once place, but it's also available within the whole house without having to transfer the multimedia files on CDs for example. With this central data repository the data can be played or displayed directly to any iMM server or also any NAS "Network Attached Storage" for example. Synology.
- Additionally, we can control the whole electrical installations system iNELS from the TV screen, this also serves the other icons which are arranged on the image that contains the floor plan for example, that is a copy of the ground plan of the house.
- The third mode is iMM Client / Server, which is mainly used in installations with one Video zone, where devices also simultaneously fuilfill the server function.
- By connecting and combining all these technologies, we can create different scenes, for instanse; when the fim starts playing by switching the projector the elevator starts moving, also when we expand the the screen projection we turn the lamps on, pull up the shutters and adjust the lighting scene. That can all be one with one touch.
- The video and audio transmission to your TV is running through the HDMI cable. Controlling the TV is then being done via the IP address, RS232 or an IR, which can be used with the eLAN-IR.
- The Audio 3.5 mm input can be used as a stereo jack for analog signal or an optical jack for digital output of the optical cable.



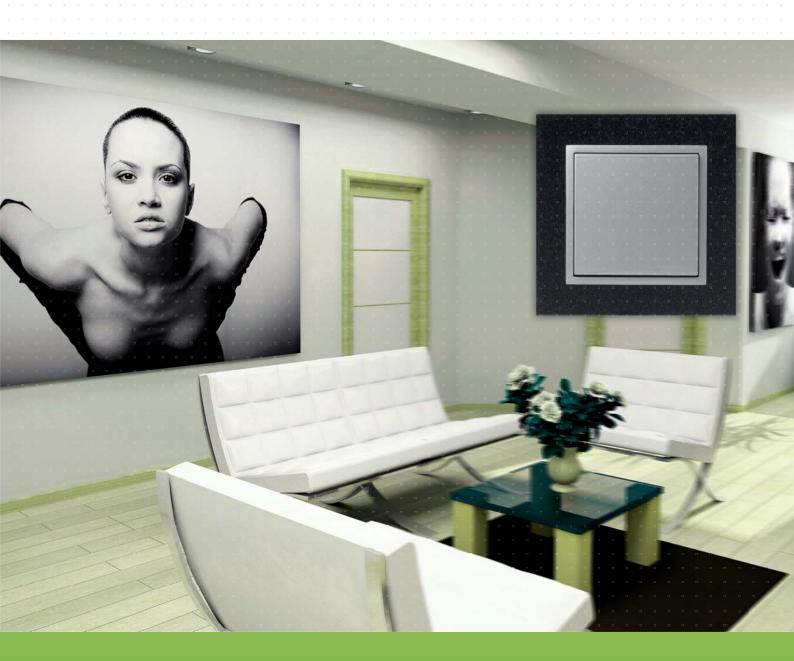


	Speakers and cables			Installation material	
		order code			order code
	AUX CABLE LARA (LARA CINCH CABLE) Used to connect LARA with exter. amplifier. Reduction 4pin from LARA LINE OUT to $2x$ CINCH plug into amplifier, length $2x$ 20 cm.	5208		1-FRAME	90910 TBR
~	POWER SUPPLY (PSB-10-24)		00	2-FRAME	90920 TBR
7	Switching stabilized power supplies with fixed output voltage, intended for mounting into an installation box (e.g. KU-68). PSB-10-24 - stabilized power supply 24V/10 W.	4378	000	3-FRAME	90930 TBR
	AUX CABLE LARA (LARA AUDIO CABLE)		0000	4-FRAME	90940 TBR
19	Used to connect LARA with external music source (smart phone mp3 player). The length is 20cm terminated with 2x stereo jack 3.5mm.	6704	00000	5-FRAME	90950 TBR
	CEILING SPEAKER Speaker is suitable for the installation in suspended ceilings and ho-	75023	10	SURFACE MOUNT BOX	10976 ABR
	How walls. Mounting hole diameter 143 mm, Power 15W, 32Ω speaker impedance.	CMF		INSTALLATION BOX 1 GANG (KP 67/2)	6705
	SURFACE SPEAKER Two-way speaker intended for mounting in a ceiling or on the walls:	75106	(43)	INSTALLATION BOX 2 GANG (KP 64/2)	6706
	Power 15W, 32 Ω speaker impedance, dimensions 270x183x37 mm. Color: White	CBR	(130)	INSTALLATION BOX 3 GANG (KP 64/3)	6707
SMENE	NAS EXTERNAL STORAGE Two-chamber NAS server with the function of hosting, sharing and data security.	7212	(FFF)	INSTALLATION BOX 4 GANG (KP 64/4)	6708
	NETWORK CABLE, 0.2 M Flat white LAN cable CAT5, length 20 cm, terminated with 2x RJ45	6702	TITI	INSTALLATION BOX 5 GANG (KP 64/5)	6709
ALL LAND	plugs.			INSTALLATION BOX 1 GANG (KP 64/LD)	6710
	NETWORK CABLE, 1 M Flat white LAN cable CATS, length 1 m, terminated with 2x RJ45 plugs.	6700	(3)	INSTALLATION BOX 2 GANG (KP 64/2L)	6711
	Power supply and network		(Feel)	INSTALLATION BOX 3 GANG (KP 64/3L)	6712
	Tower supply and network		C Exert of to	INSTALLATION BOX 4 GANG (KP 64/4L)	6713
	WiFi BRIDGE Used for LARA wireless connection via WiFi network.	5210	(TIII)	INSTALLATION BOX 5 GANG (KP 64/5L)	6714
	PoE SWITCH - 5x RJ45 Provides LAN connectivity and PoE power supply for up to 5 x LARA.	6605		UNIVERSAL BOX 1068-02	6716
CHITITID.	PoE SWITCH - 8x RJ45 Provides LAN connectivity and PoE power supply for up to 8x LARA.	6606		UNIVERSAL BOX KUH 1/L NA	6717

Pov	ver sets		Code	Name	EAN
	POWER SUPPLY PoE + WIFI INTO OR THE BOX		LARA-R/BR	LARA Radio_white	8595188148719
0.	WiFi bridge with PoE and power supply into an installation box.		LARA-R/AL	LARA Radio_aluminium	8595188149211
	Power supply 230V.	5224	LARA-R/GE	LARA Radio_ice	8595188149228
	POWER SUPPLY PoE INTO A BOX PoE injector with power supply intended for an installation box. Power supply 230 V.		LARA-R/PE	LARA Radio_pearl	8595188149259
0. 1) week		5226	LARA-R/MF	LARA Radio_ivory	8595188149242
			LARA-R/IS	LARA Radio_grey	8595188149235
	PoE SUPPLY Power injector with plug-in adapter 230V.	5225	LARA-IC/BR	LARA Intercom_white	8595188149389
1.11			LARA-IC/AL	LARA Intercom_aluminium	8595188149372
			LARA-IC/GE	LARA Intercom_ice	8595188149396
			LARA-IC/PE	LARA Intercom_pearl	8595188149426
11200	POWER SUPPLY PoE + WiFi	5227	LARA-IC/MF	LARA Intercom_ivory	8595188149419
	WiFi bridge with PoE plug in adapter 230 V.		LARA-IC/IS	LARA Intercom_grey	8595188149402

SWITCHES AND SOCKETS

LOGUS ==















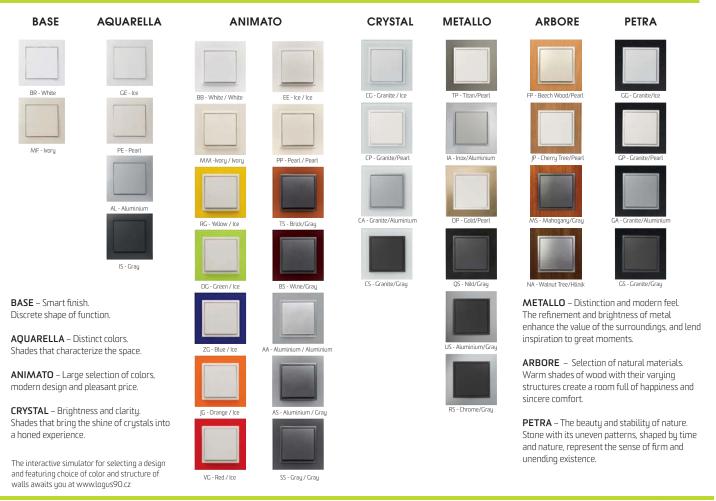


DESIGN LINES

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.



DEVICES OVERVIEW





Rotary dimmer







UNITS OF THE INELS SYSTEM IN LOGUS® DESIGN







Card switch

DEVICES OVERVIEW

- switches
- switches with lock
- over-switches
- rotary switches
- dimming switches
- pushbuttons
- switch, pulling switch
- shutters controllers
- shutters controllers with IR sensor
- · digital time switch motion detectors
- card switch

- · Jazz Light Sound system
- audio system units standard
- · Schuko, EURO-USA
- ceramic
- data sockets Cat 5, Cat 6
- · 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
- IP 44 socket cover with frame
- IP 44 safety socket cover for types French, Schuko
- IP 44 simple cover
- IP 44 double cover
- complete screwless socket (Schuko) with plates
- complete British standard socket
- LED lamp for backlighting mechanisms MEC 21 / 48 Series - 12V(250V)

EXAMPLE OR ORDER



21011 = switch 1-pir 21111 = socket







Complete device 90910 TBR, 90601 TBR device, frame, cover

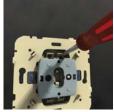


ADVANTAGES MECHANISMS

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



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



Ability to test electrical functionality of your device without disassembly.



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



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



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



Ability to test electrical functionality of your device without disassembly.

NEWS!



21210 Dimmer for fluorescent lamps with electronic ballast EVG 1-10V IMax - 40mA. Silent.



21211 Ferromagnetic dimmer/2-way switch 500 VA R, L 20 - 500W/VA.



21213 Electronic dimmer/two-way switch 550W R, C 20 - 550W/VA Silent.



21214
Dimmer/two-way switch for energy saving lamps - 110VA R, L 7 - 110W/VA.
Dimming LED.



21215
Electronic dimmer/two-way switch
for low power lamps - 150W R,C
15 - 150W/VA.
Dimming LED.
Silent.



21219 Speed controller for induction motors - 600VA 60 - 600VA.



21470 Double Earth Socket (French Type).



90656 Safety cover plate for double Earth socket.

A complete overview of designs, order numbers and technical information are all found in the "LOGUS" Technical Catalog".

WATERPROOF 48 series

EFAPEL with the series **Waterproof 48** is the right choice for "any terrain" when performing an electrical installation in a moist or dusty environment.

Thanks to IP65 protection and use of thermoplastic with high resistance to weather conditions, the **Waterproof 48 series** represents the best solution for installations in industrial areas, garages and gardens.

It is produced in the traditional color gray – RAL 7035 – and in white – RAL 9003, which are colors used in EFAPEL technical cable trunkings.

The series **Waterproof 48** has 34 functions; these can be mounted in simple or double bases and in vertical or horizontal positions.



LIGHTING



















		LED BULBS - CI	ACCIC DECICN	
		LED BOLD3 - CI	LASSIC DESIGN	
	LED ECO	LED PROFI	LED DIMM	LED MAX
	+0014 +0008 SANDER SANDER SANDER	+0010 +0004 PARTON PARTON	+0012 +0008 & WALE WALE OF THE PARTY OF THE	# 2006 + 0006 P 78 807
	3 days and an			
Technical parameters	LB-E27-400-2K7 / 5K	LB-E27-470-2K7 / 5K	DLB-E27-806-2K7 / 5K	LB-E27-1060-3K / 5K
Power [W]	5.3	7.5	11	13
Base	E27	E27	E27	E27
Luminous flux[lm]	400	407	806	1050
Color temperature [K]	2700 / 5000	2700 / 5000	2700 / 5000	3000 / 5000
Dimmable	-	-	YES	-
	- Economy serle - Replacement for 35W classic light bulb - Warm white / Cold white	- Classic design - Replacement for 40W classic light bulb - Warm white / Cold white	- Highly luminous - Replacement for 60W classic light bulb - Warm white / Cold white	- The most luminous LED on the market - Replacement for 75W classic light bulb - Warm white / Cold white

		LED BULBS- SF	PECIAL DESIGN	
	LED CANDLE / BALL	LED WIDE PROFI	LED GLOBUS	LED MINI (G9)
	25 word	# 40 LT BY NO TO	TOOLL STATES	TOOM TOOLS STATES
	The 42 to 10 ft			ц. СФ-100-44
Technical parameters	LC-E14-350-2K7 / LMB-E14-250-3K	LBWB-E27-530-2K7	LBG-E27-806-2K7	LL-G9-100-4K
Power [W]	5 / 4	7	11	1.5
Base	E14	E27	E27	G9
Luminous flux[lm]	350 / 250	530	806	100 / 180
Color temperature [K]	27000 / 3000	2700	2700	4000 / 2700
Dimmable	-	-	-	-
	- Candle shape /Ball shape - Replacement for 25W light bulb - Warm white	- Wide angle of the shine (265°) - Replacement for 40W light bulb - Warm white	- Diameter 95mm - Replacement for 60W light bulb - Warm white	- Base G9 - Replacement for 7W light bulb - Neutral white/ Warm white



		LED CDO	TUCUT		
		LED SPO	ILIGHI		
	LED SPOT DIMM	LED SPOT MAX	LED SPOT WIDE	LED SPOT	
	+000¢ +000¢ \$700 MAYOR	+0006 +0006 PAR 207	25 white was a superior of the	# 000¢ 07 M 807	
	10-000 100 H	Country	Inn. gund zov. s	ia-curoses	
Technical parameters	DLSL-GU10-350-3K	LSL-GU10-350-3K / 5K	LSWL-GU10-200-3K	LSL-GU10-280-3K	
Power [W]	5	6	3.5	5	
Base	GU10	GU10	GU10	GU10	
Luminous flux[lm]	350	350	200	280	
Color temperature [K]	3000	3000 / 5000	3000	3000	
Dimmable	YES	-	-	-	
	- Dimmable - It replaces traditional 30W halogen lamp - Warm white / Cold white	- Highly luminous, voltage 230V - It replaces the classic 35W halogen lamp - Warm white / Cold white	- Wide angle of shine (110°) - It replaces the classic 25W halogen lamp - Warm white	- Voltage 230V - It replaces the classic 30 W halogen lamp - Warm white	

	LED SPOTLIGHTS		LED TUBE	
	LED SPOT 12V	LED TUBE	LED TUBE	LED TUBE
	SAN WATER STREET	+0006 +0004 +0004 +0004	+000¢ +0004 +0009	+0006 +0004 +0004 +0004
	(A MATANAMA)	ENDER OF	2 36 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 58 4 5 7 7 8 4 5 7 7 8 4 5 7 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Technical parameters	LSL-GU5.3-280-3K	LT-G13-60-3K / 4K / 6K	LT-G13-120-3K / 4K / 6K	LT-G13-150-3K / 4K / 6K
Power [W]	5	10	20	30
Base	GU5.3	G13	G13	G13
Luminous flux [lm]	280	1000 / 1050	1800 / 2000 / 2100	2700 / 3000 / 3150
Color temperature [K]	3000	3000 / 4000 / 6000	3000 / 4000 / 6000	3000 / 4000 / 6000
Dimmable	-	-	-	-
	- Voltage 12V - It replaces traditional 30W halogen lamp - Warm white	nothing stands in the way of practica	ry to completely remove the choke (



		LED DOWNLIGHT		
	LED DOWNLIGHT	LED DOWNLIGHT	LED DOWNLIGHT	
+000¢ +0004 +0009		+0004 +0004 +0009	+000¢ +0004 +0009	
	and the same of th	A Maritia Maria		
		(i) new	(i) new	
Technical parameters	DL-95-450-3K / DL-95-500-4K / 6K	DL-155-950-3K / DL-155-1050-4K / 6K	DL-205-1200-3K / DL-205-1400-4K / 6K	
Power [W]	7	14	18	
Base	-	-	-	
Luminous flux[lm]	450 / 500 / 500	950 / 1050 / 1050	1200 / 1400 / 1400	
Color temperature [K]	3000 / 4000 / 6000	3000 / 4000 / 6000	3000 / 4000 / 6000	
Dimmable	-	-	-	
	- Light to the ceiling for downlight assembly - Warm white / Cold white / White	- Light to the ceiling for downlight assembly - Warm white / Cold white / White	- Light to the ceiling for downlight assembly - Warm white / Cold white / White	

	LED PANELS				
	LED PANEL	LED PANEL	LED and RGB STRIPS, ALUMINUM PROFILES		
	TOOOL	TOOOE TOOON TOOON	LED and RGB STRIPS ALUMINUM PROFILES		
Technical parameters	LP-3030-3K / 6K	LP-6060-3K / 4K / 6K	LED and RGB STRIPS		
Input power [W]	13	48	LED strip - today's modern way of lighting up any space. Thanks to their flexibility, they can		
Socket	-	-	be simply bent and cut to size. They are also all self-adhesive, making their installation easy.		
Luminous flux [lm]	810 / 1000	3690 / 4100 / 4100	Colors: white, warm white, red, yellow, blue, green		
Light temperature [K]	3000 / 6000	3000 / 4000 / 6000	Number of LED diodes per m: 60-240 Width: 8-10-15 mm.		
Dimmable	YES*	YES*	<u>Aluminum profiles</u> - forms an accessory to the assortment of LED strips. We supply profiles in		
* It is necessary to use dimmable power supply	When designing the lighting for your office, it is a source to use, rather than having to resolve repla LED technology in the future. The panel sizes are However, they can be installed in many different on cables under the ceiling, on the wall in any posthave extended our product range with RGB panel according to your moods and occasions.	cement of classic lights for modern ones with designed for inserting in cassette ceilings. ways - directly under the ceiling, suspended sition. Your fantasy knows no boundaries. We	many variations, where it is possible to install the profile on a surface or in material, on a space, into a corner, etc. To go with these profiles, you can chose from several types of clear or milky diffusers (coverslips), and the profiles can be augmented by blanking panels for aesthetic termination of the profile. Dimensions from 16x12 up to 40x12 mm.		



WE CAN DIM ANYTHING!

			u _		R HALL 230V		
)CT		PRODUCT	MATIC	CODE	Standard light bulbs, halogen lamps	Low voltage lamps 12-24V wound transformers	Low voltage lamps 12-24V electric transformers
SERIES		I NODOCI	AUTOMATIC LOAD DETECTION	EAN CO		W	V.
		DIM-2 - Staircase switch with dimming, gradual brightness increase/decrease, 500 VA.	×	8595188112475	✓	✓	×
		DIM-5 – Dimmer - short press ON/OFF, pressing and holding dims, 500 VA.	×	8595188115612	✓	4	×
		DIM-14 – Like DIM-5, also suitable for loads L. Dims loads R, L, C).	✓	8595188135955	✓	✓	✓
ICES		DIM-15 — Dimmer for LED lamps and dimmable efficient fluorescent lamps, brightness adjustment by potentiometer.	×	8595188140690	×	×	×
ELECTRONIC DEVICES		DIM-6 – Dimmer can be controlled by several methods: pushbutton, external potentiometer, analog signal 0-10V, iNELS bus system.	×	8595188136914	✓	✓	✓
RONIC		SMR-S – Like DIM-5, pushbutton control, for mounting into KU68, dims by pressing and holding button, 300W.	×	8595188123518	✓	✓	×
ELECT		SMR-U – Like DIM-14, pushbutton control, for mounting into KU68, dims by pressing and holding button, 500W.	✓	8595188130738	✓	✓	✓
	***	SMR-M – Like DIM-15, pushbutton control, for mounting into KU68, LED dimming and dimmable efficient fluorescent lamps.	×	8595188143776	×	×	×
	110.00	LIC-1 – Dimmer maintaining set light intensity in Lx, including SKS photo-sensor.	×	8595188144933	✓	✓	✓
	THE STATE OF THE S	LIC-2 – Lighting intensity controller for dimmers or electronic ballasts.	×	8595188145312	1 >	(Output 0/1-10) V
		DCDA-33M/RGB – Designed for dimming single-color LED and RGB LED light sources.	×	8595188146807	Contro	ol with DALI/DM	X/CIB
	The second secon	RFDA-11B - Dimming actuator basic program light scene, OFF function.	✓	8595188136846	✓	✓	✓
SS	W Promp north	RFDA-71B – Dimming actuator - 7 programs, 4 lighting scenes, sunset and sunrise simulation, ON/OFF function.	✓	8595188136273	✓	✓	✓
WIRELESS	## (19)	RFDEL-71B/M — Dimming actuator - 7 programmable functions (6 light functions, ON/OFF function).	×	8595188145121	✓	✓	✓
N SC	100 mm 1	RFDAC-71B – Analog actuator - 7 programs (6 light functions, ON/OFF function).	×	8595188142809	1 x Output C	//1-10 V ■) =
	1	RFDA-73M/RGB – Dimmer for coloured (RGB) LED strips.	×	8595188146814		×	
	*	EMDC-64M - Converter iNELS - DALI/DMX.	×	8595188150309	Control	of receivers DA	LI/DMX
BUS		$DA3-22M_{v2}-2\mbox{-channel dimming actuator is used to control the brightness intensity of light sources ESL, LED and RLC.}$	✓	8595188132626	✓	✓	✓
SOLL		LBC3-02M - Dimming double-channel actuator, 2 x relays, 2 x 1 - 10 V.	×	8595188132688	2 x Outpu	t 1-10 V	E



ESL == []=		LED	
Efficient dimmable fluorescent lamps	CATEGORY 1	CATEGORY 2	CATEGORY 3
431	Mostly, multiple LED" illumination sources, power provided by LINEAR source limiting current (sharper dimming), lower price.	Sources that have 1-3 power LEDs, power provided by SWITCHING the source regulating brightness based on the input voltage (smoother dimming), higher price GU10 have a higher body.	LED with DC and current regulation. Designed for dimming LED chips, LED strips, RGB LED.
			₩ 977 <u>•</u>
×	×	×	×
×	×	×	×
×	×	×	×
✓	✓	✓	×
×	×	✓	×
×	×	×	×
×	×	×	×
~	✓	✓	×
✓	✓	✓	×
×	×	×	×
×	×	×	×
×	×	✓	×
×	×	✓	×
✓	✓	✓	×
×	×	×	×
×	×	×	✓
×	×	×	×
✓	✓	✓	×
×	×	×	×

Functional DEMO cases

http://www.eshop.elkoep.com

At our stands, we can demonstrate to interested guests using our demonstration case the wireless control of RF Control, new designs of switches of LOGUS⁹⁰ sockets and on panels installation devices for the electronic technologies and new products from the series of modular electronic devices.



RFI AY

The demo case can realistically simulate the functions of the multifunction time relay, digital time switch clock, twilight switches, dimmers, contactors and auxiliary relays.

It is the ideal training tool, but is also appropriate for self-teaching of functions of the products from the group RELAY.



◆iNELS RF Control ▶

Demonstration of the wireless system - switching, dimming, heating + detectors.

The demo case makes a fantastic training tool, but also acts as a demonstration of functionality for the customer and the design of individual products.



◀ iNELS Bus

This is the ideal starter for becoming familiar with the intelligent solution of electrical installation (socalled BUS).

Here you can try adding parameters in the configuration program IDM, and it also makes for a fine tool for presentations to customers.



LARA

This demo case is intended for the presentation and demonstration of LARA functionality – LARA as an internet radio, LARA as a music player, LARA as a home intercom, LARA as a home videophone (with IP door phone 2 N) and LARA as an iNELS audio zone.

Thanks to the speakers designed for installation in ceilings or into switches you can enjoy the ultimate music experience.



3rd PARTY SYSTEMS

This demo case is intended to demonstrate the integration of our iNELS BUS system with the KNX standard and systems Creston, Control4.

With wireless systems Zwave and ZigBee



◆ LOGUS⁹⁰

There is nothing better than seeing the switch in person, to touch it... We therefore recommend this case to every company dealing in the sale of switches

You can look forward to refined metal, glass, wooden or even stone frames. There are also the plastic variations BASE and AQUARELLA.

Printed materials

available on: http://www.elkoep.com/download/promotional-materials/















Technical catalogue RELAY



Technical catalogue **INELS RF** Control



Technical catalogue **iNELS**



Technical catalogue A/V



Technical catalogue LOGUS⁹⁰



LIGHTING -We brighten up your impressions



Product overview



Our dear Customers... Let's try it wirelessly!



Smart home guide - for



Architect



LARA



LOGUS90 Home switches and sockets



Why wireless control - NEW SMART KITS!!!



iNELS for woman



Nice to meet you! I am LARA!



RF Touch - Touch control



Your house loves you, iNELS in practice

OTHERS:



Choose the right electrica installation. We will help you!



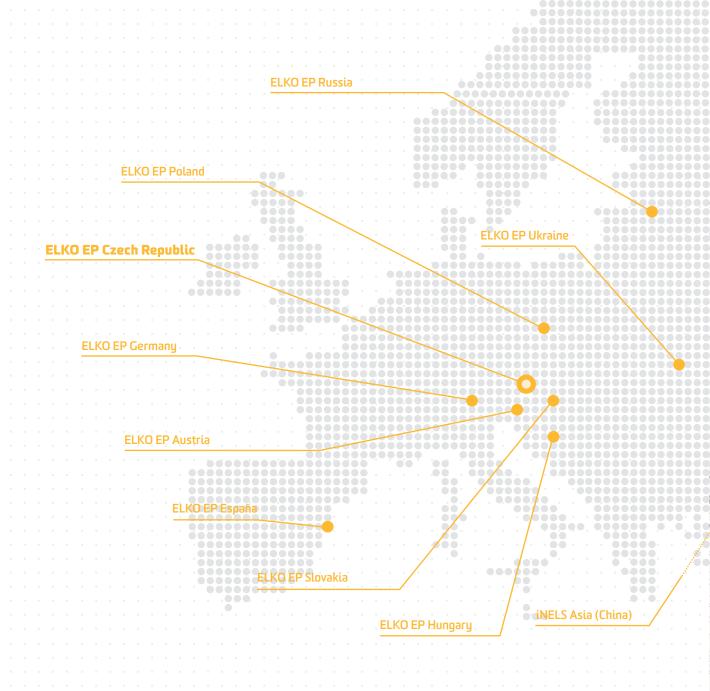
> Brochure about dimming



Electrics do not know how to



> iNELS Presentation possibilities





ELKO EP, s.r.o.