SWITCHES AND SOCKETS

LOGUS⁹⁰
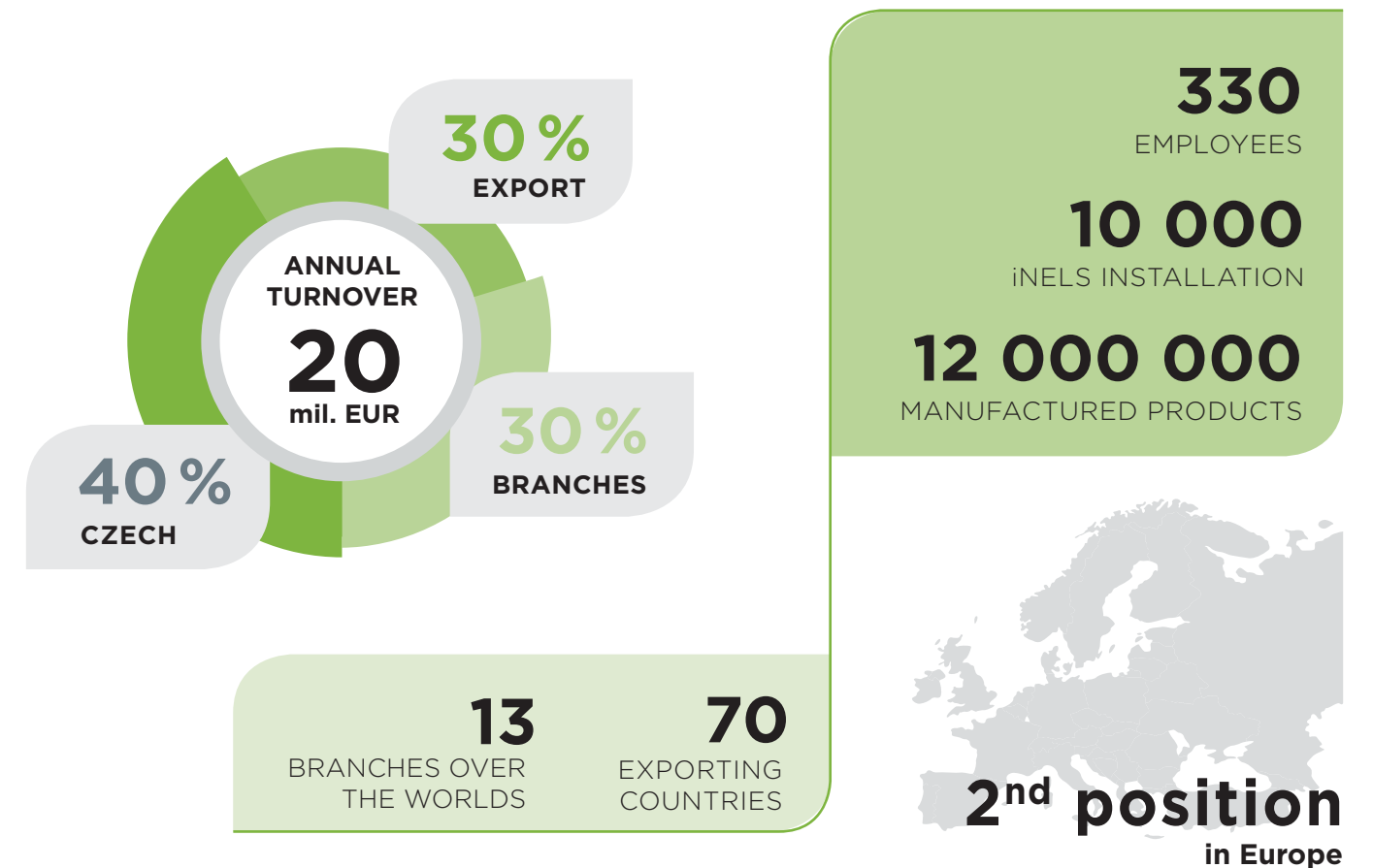
TECHNICAL CATALOGUE

www.elkoep.com

ELKO EP

We are traditional, innovative and purely Czech development manufacturer of electronic devices and we have been your partner in the field of electroinstallations for 26 years.

ELKO EP employs about 330 people, exports its products to more than seventy countries, and has representatives in thirteen foreign branches. Company of the Year of the Zlín Region, Visionary of the Year, Global Exporter of the Year, Participation in the Czech TOP 100, these are just some of the awards received. Still, we are not finnished. We are constantly striving to move forward in the field of innovation and development. That's our primary concern.
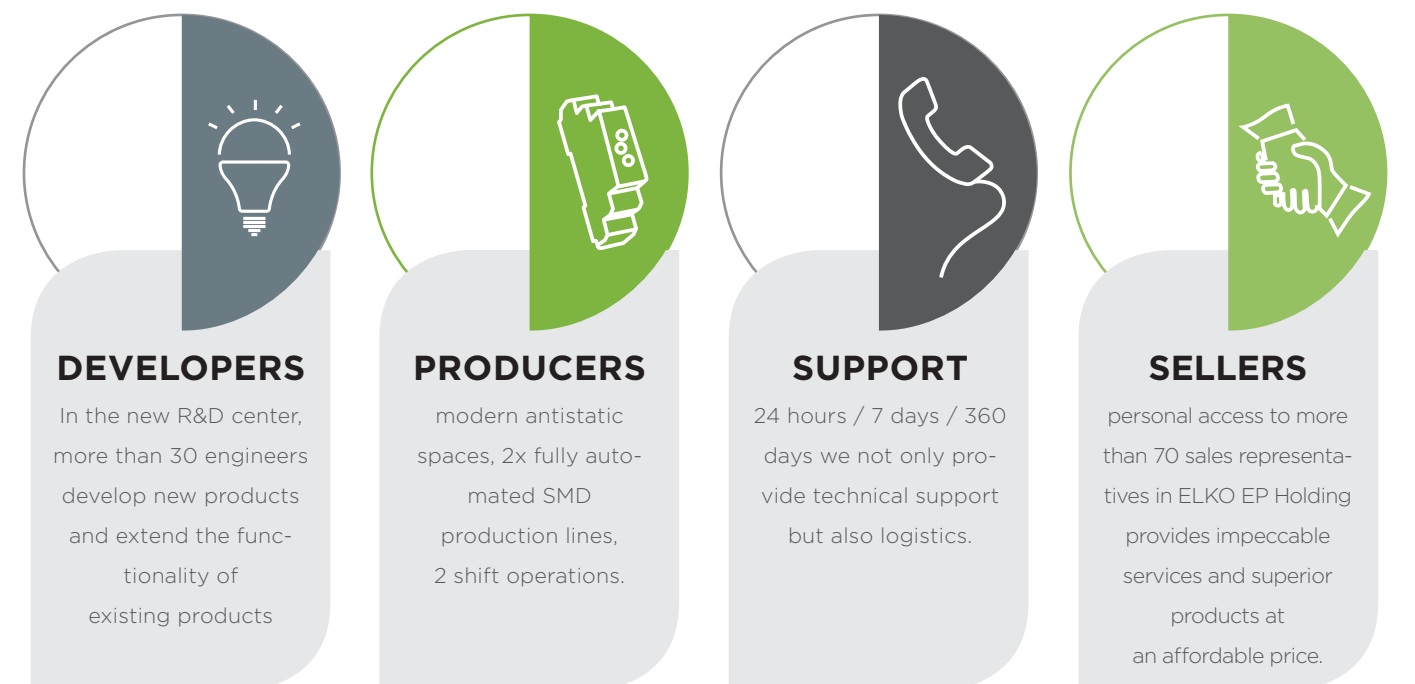
Millions of relays, thousands of satisfied customers, hundreds of our own employees, twenty six years of research, development and production, thirteen foreign branches, one company. ELKO EP, innovative-a purely Czech company based in Holešov, where development, production, logistics, service and support go hand in hand. We primarily focus on developing and manufacturing systems for building automation in the residential, commercial and industrial sector, a wide range of Smart city facilities and the so-called Internet of Things (IoT).

Facts and stats

30 %
EXPORT

ANNUAL TURNOVER
20
mil. EUR

30 %
BRANCHES

40 %
CZECH

13
BRANCHES OVER THE WORLDS

70
EXPORTING COUNTRIES

330
EMPLOYEES

10 000
iNELS INSTALLATION

12 000 000
MANUFACTURED PRODUCTS

2nd position
in Europe

WE ARE

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

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

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

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

Timers/Relays
www.elkoep.com/relay-modular-electronic-devices

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.

Protection relays for industry
www.elkoep.com/protection-monitor-relay

Every household, every object and every machine needs a monitoring relay. There are several reasons why, overvoltage, under voltage, phase failure, asymmetry, frequency, or power factor.

iNELS Air – IoT devices
www.elkoep.com/iot-products

The new iNELS Air product line responds to the dynamically developing network IoT (Internet of Things). These networks enable devices to communicate safely, over long distances and are optimized to minimize power consumption. The product group includes sensors for communication on the Sigfox, LoRa and NB-IoT protocol.

Wireless electroinstallation (RF)
www.elkoep.com/wireless-rf-control

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.

Wired electroinstallation (BUS)
www.elkoep.com/inels-bus-system

The BUS system offers a unique solution for new installations (refurbishment) in family houses, hotels and villas. It offers a wide range of functions for both automation and comfort.

Energy management
www.elkoep.com/energy-management

Measuring energy consumption in the home or in larger areas is an increasing trend. Our products provide measurement with three different technologies – using a BUS or wireless and with the IoT.

Wireless Retrofit Hotel (HRESK)
www.elkoep.com/hotel-hresk

Hotel Room Energy Saving Kit - Solutions for hotel rooms based on wireless technology is designed to function in existing hotels. It is possible to simply elevate the existing electrical installation to a higher level without long-lasting construction modifications.

Hospitality Hotel (GRMS)
www.elkoep.com/inels-hospitality

Guest Room Management System – The BUS system is designed mainly for hotels and offers comfortable and easy control of hotel rooms, reception and restaurant.

Building management system
www.elkoep.com/bms

Building Management System is a comprehensive solution for monitoring, and controlling even the most complex of building systems. You can monitor everything on your computer monitor or tablet in the comfort of reception or office.

Lighting control
www.elkoep.com/lighting-control

A sector that offers complete control over all lighting devices. From switching, dimming to controlling your favourite DALI luminaires. Everything can be controlled with a connection to iNELS wired or wireless technology.

Multimedia
www.elkoep.com/av-multimedia

Here you can find extensions for our iNELS system and not just for it. Lara Music Players, Intercoms and Door Communicators, Application Communication Servers and 3rd party applications.

Switches and sockets
www.elkoep.com/logus90-products

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 tempered glass. Be special!

Lighting sources
www.elkoep.com/lighting-sources

Are you looking for a bulb for your chandelier? In this section you will find among the most common types of bulbs also LED strips and other LED sources, power transformers and installation accessories such as ALU profiles, diffusers.

As when we painted our future housing on paper with crayons when we were young, the LARA configurator allows us to indulge in this hobby to this day. Do you like timeless design of frames made of natural materials? Would you like glass switches and controls? Do not you know if they'll be in tune with the colour of your walls? Will they fit comfortably into a given area?

lara.inels.com

Try the LARA configurator online. You can choose from one single frame to five frames. Combine the features that will keep you entertained!

Just 4 steps in the configurator:

At each step of the configurator, you choose, for example, the installation method, the size or design of the frame (e.g. glass, wood, metal), the wall colour/type and the type of speakers (wall, ceiling, …). The result delivers an overview and estimated total cost. You can place the order here directly or send it by email.
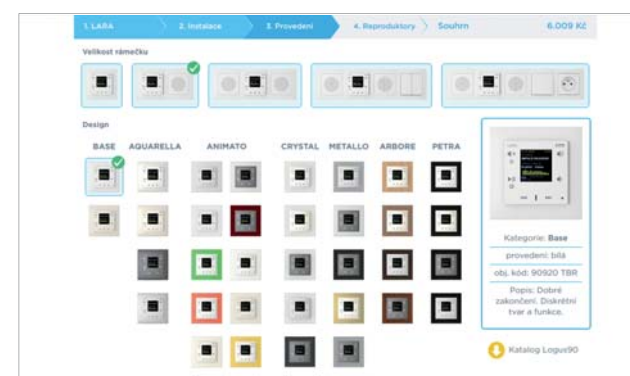
1. LARA device type

2. Installation type

3. Design selection
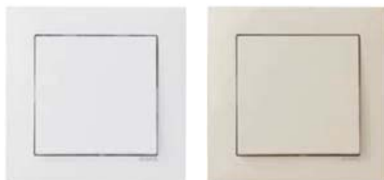
4. Select speakers

LOGUS⁹⁰

BASE
Smart finish. Discrete shape of function.

Dimensions: 85.6 x 85.6 mm

BR - White   MF - Ivory

AQUARELLA
Distinct colors. Shades that characterize the space.

Dimensions: 85.6 x 85.6 mm

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

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

Dimensions: 94 x 94 mm

BB - White/White | MM - Ivory/Ivory | EE - Ice/Ice | PP - Pearl/Pearl | RG - Yellow/Ice | DG - Green/Ice | ZG - Blue/Ice

JG - Orange/Ice | VG - Red/Ice | TS - Brick/Gray | BS - Wine/Gray | AA - Aluminium/Aluminium | AS - Aluminium/Gray | SS - Gray/Gray

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

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

Dimensions: 94 x 94 mm

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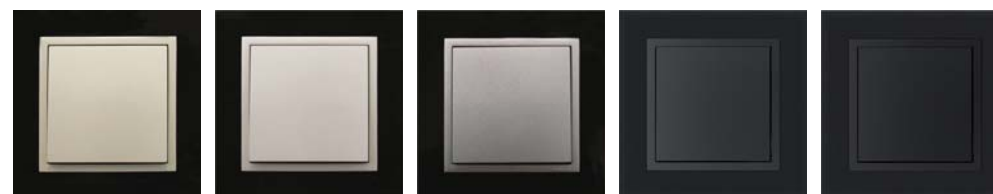
EC - Glass - black/Pearl | EG - Glass - black/Ice | EA - Glass - black/Aluminium | ES - Glass - black/Gray | EP - Glass - black/Black

METALLO
Distinct and modern feel. The refinement and brightness of metal enhance the value of the surroundings, and lend inspiration to great moments.

Dimensions: 94 x 94 mm

TP - Titanium/Pearl | IA - Inox/Aluminium | OP - Gold/Pearl | QS - Nickel/Gray | US - Aluminium/Gray | RS - Chrome/Gray | OU - Gold/Gold

ARBORE
Selection of natural materials. Warm shades of wood with their varying structures create a room full of happiness and sincere comfort.
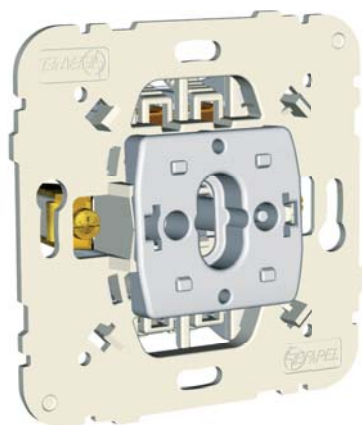
Dimensions: 94 x 94 mm

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

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

Dimensions: 94 x 94 mm
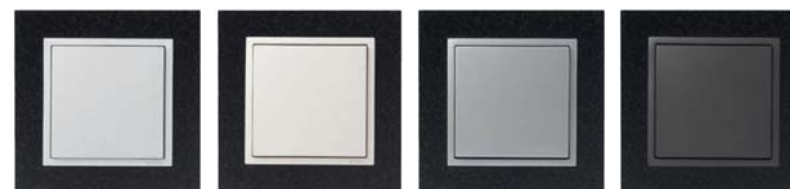
GG - Granite/Ice | GP - Granite/Pearl | GA - Granite/Aluminium | GS - Granite/Gray

The MEC21 Series Mechanisms for the LOGUS⁹⁰ Design Series are made of a special alloy of non-combustible plastics that, due to their strength and elasticity, prevent destruction or damage to the body. The plastic design of the mechanism also ensures secure isolation from the conductive parts of the installation.

The mounting frame is an integral part of the device. The whole device is compact, lightweight and allows for easy and quick assembly without the use of tools.

With the "smart clips" on the front of the device, the frame and cover can be easily snapped on and off. It can be easily and quickly changed and adapted to the current colours of the walls of your interior.

10A - 250V~ - Screwless connection
16A / 20A - 250V~ - Connection with screw terminals

Quick Clips allow installation to adjust the frame on an uneven wall (two positions for the "snap" frame). Inequality walls will allow the deal and Floating Fingerboard.
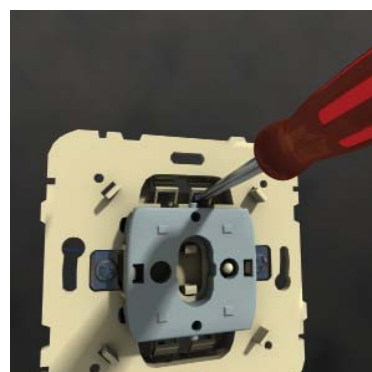
Ability to test electrical functionality of your device without disassembly.
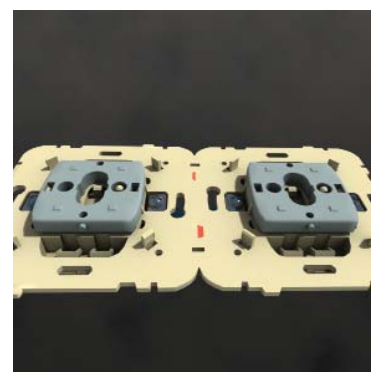
Shaped edge of the body mechanism to align the mounting multiple devices.
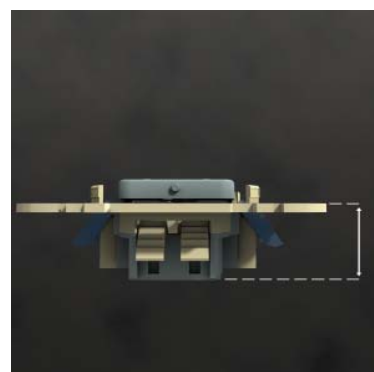
Depth 20 mm only alows mounting to instrumentation device / box.
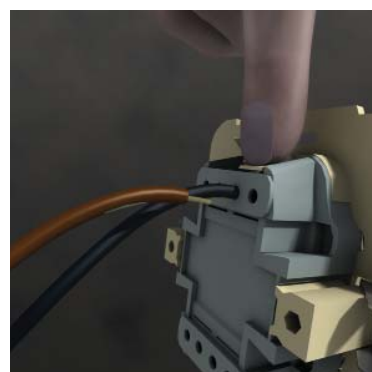
Screwless terminals provide fast and quality connection without need of instrument usage. Double terminals on every pole provide multiple connection withoutneed of extra terminals usage.

Ability to test electrical functionality of your device without disassembly.
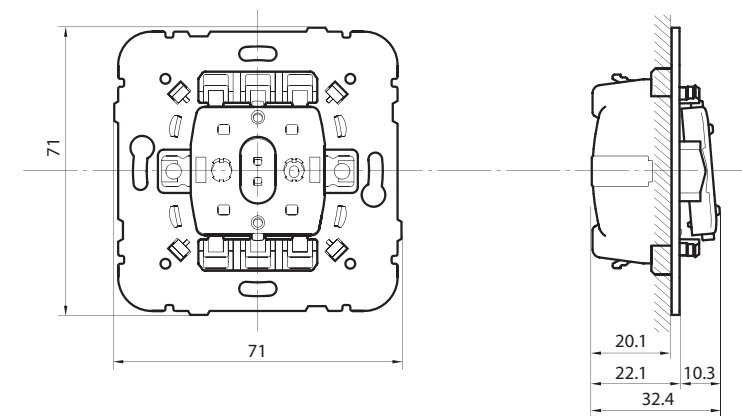
Order example
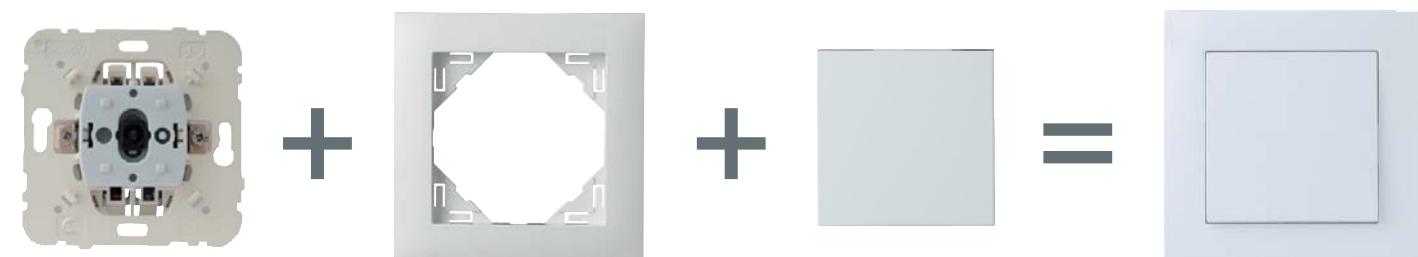
MECHANISM MEC21

oder code: 21 . . .
e.g.:
21011 = Single Pole Switch
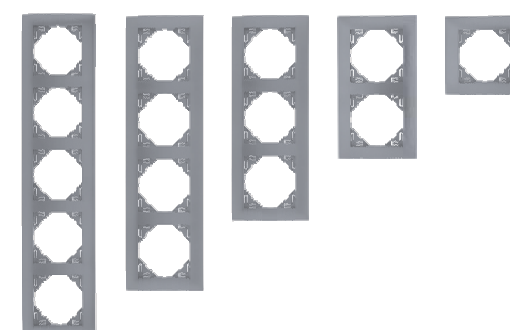21111 = Earth Socket

FRAME

oder code: 909 . . T x x
e.g.:
90910 TBR = Single Frame, plastic/white
90930 TCS = Triple Frame, cristal/gray

ROCKER / COVER PLATE

oder code: 90 . . . T x x
e.g.:
90601 TBR = kRocker for Switches, white
90652 TAL = Safety Cover Plate for Earth Socke, aluminium

COMPLETE PRODUCT

oder code: . . .
e.g.:
21011, 90910 TBR, 90601 TBR Mechanism, Frame, Rocker / Cover Plate
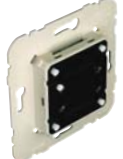
The entire design series are available from 1 frame up to 4 frames.
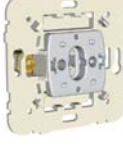
The BASE and AQUARELLA series are available from 1 frame up to 5 frames.

Horizontal or vertical position of the frame is possible thanks to their symmetrical shape.

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

Page 12 — Control devices / Rockers / Cover plates

Control devices	Order code	Box (Un)	Rockers / Cover plates	Order code	Color	Box (Un)
Single Pole Switch 10AX - 250V~	21011	10	Rocker for Switches	90601 T	BR MF GE PE AL IS PM DU	20 2
Three Circuits Switch 16AX - 250V~	21088	10	Triple Rockers	90661 T	BR MF GE PE AL IS PM DU	20 2
Electronic Very Low Tension 4-Gang Push-button 12V - 50mA / 32V - 18mA	21164	10	Quadruple Rocker	90600 T	BR MF GE PE AL IS PM DU	2
Single Pole Switch with Orienting Light 10AX - 250V~	21012	10	Rocker for Lighted Switches	90602 T	BR MF GE PE AL IS PM DU	20 2
Single Pole Switch with Pilot Lamp 10AX - 250V~	21013	10	Rocker for Lighted Switches / Push-button with Lamp Symbol	90797 T	BR MF GE PE AL IS PM DU	20
Two-pole Switch 10AX - 250V~	21021	10	Rocker for Switches	90601 T	BR MF GE PE AL IS PM DU	20 2
			Rocker for Two-pole Switch	90608 T	BR MF GE PE AL IS PM DU	2
Two-pole Switch with Pilot Lamp 10AX - 250V~	21023	10	Rocker for Lighted Switches	90602 T	BR MF GE PE AL IS PM DU	20 2
Two-pole Switch with Pilot Lamp - 20A 20A - 250V~	21024	10	Rocker for Lighted Switches / Push-button with Lamp Symbol	90797 T	BR MF GE PE AL IS PM DU	20 2
Card-system Switch 10AX - 250V~ - For ATM card type (Ref. 21999).	21031	10	Cover Plate for Card-system Switch	90731 T	BR MF GE PE AL IS PM DU	2

Page 13 — Control devices / Rockers / Cover plates

Control devices	Order code	Box (Un)	Rockers / Cover plates	Order code	Color	Box (Un)
Intermediate Switch 10AX - 250V~	21051	10	Rocker for Switches	90601 T	BR MF GE PE AL IS PM DU	20 2
Intermediate Switch with Orienting Light 10AX - 250V~	21052	10	Rocker for Lighted Switches	90602 T	BR MF GE PE AL IS PM DU	20 2
Two Circuits Switch 10AX - 250V~	21061	10	Double Rockers	90611 T	BR MF GE PE AL IS PM DU	20 2
Two circuit switch 5 20 A - 250 V	21065	10				
Two-way Switch 10AX - 250V~	21071	10	Rocker for Switches	90601 T	BR MF GE PE AL IS PM DU	20 2
Two-way Switch with Orienting Light 10AX - 250V~	21072	10	Rocker for Lighted Switches	90602 T	BR MF GE PE AL IS PM DU	20 2
Two-way Switch with Pilot Lamp 10AX - 250V~	21073	10				
Two-way Switch - 20A 20A - 250V~	21075	10	Rocker for Switches	90601 T	BR MF GE PE AL IS PM DU	20 2
Pull-cord Push-button 10A - 250V~	21091	10	Cover Plate for Pull-cord Push-button / Two-way Switch	90741 T	BR MF GE PE AL IS PM DU	2
Pull-cord Two-way Switch 10AX - 250V~	21092	10				

Legend: T - Rocker, Cover Plate or Frame. BR - White, MF - Ivory, GE - Ice , PE - Pearl, AL - Aluminium, IS - Gray, PM - Black, DU - Gold. Wiring diagrams can be found on 32 to 43.

Legend: T - Rocker, Cover Plate or Frame. BR - White, MF - Ivory, GE - Ice , PE - Pearl, AL - Aluminium, IS - Gray, PM - Black, DU - Gold. Wiring diagrams can be found on pages 32 to 43.

Control devices | Rockers / Cover plates

	Description	Order code	Box (Un)		Description	Order code	Color	Box (Un)
	Double Two-way Switch 10AX - 250V~	21101	10		Double Rockers	90611 T	BR MF GE PE AL IS PM DU	20 2
	Double Two-way Switch - 20A 20A - 250V~	21103	10					
	Rocker Push-button (NO+NC) 10A - 250V~	21150	10		Rocker for Switches	90601 T	BR MF GE PE AL IS PM DU	20 2
					Rocker for Switches with Lock Symbol	90604 T	BR MF GE PE AL IS PM DU	2
					Rocker for Switches with Bell Symbol	90605 T	BR MF GE PE AL IS PM DU	2
	Rocker Push-button 10A - 250V~	21151	10		Rocker for Switches with Maid Symbol	90606 T	BR MF GE PE AL IS PM DU	2
					Rocker for Switches with Lamp Symbol	90607 T	BR MF GE PE AL IS PM DU	2
	Rocker Push-button with Orienting Light - 250V~ 10A - 250V~	21152	10		Rocker for Lighted Switches	90602 T	BR MF GE PE AL IS PM DU	20 2
					Rocker for Lighted Switches / Push-button with Lock Symbol	90794 T	BR MF GE PE AL IS PM DU	2
	Rocker Push-button with Independent Pilot Lamp 10A - 250V~	21153	10		Rocker for Lighted Switches / Push-button with Bell Symbol	90795 T	BR MF GE PE AL IS PM DU	2
					Rocker for Lighted Switches / Push-button with Maid Symbol	90796 T	BR MF GE PE AL IS PM DU	2
	Rocker Push-button with Orienting Light - 12V 6A - 12V	21162	10		Rocker for Lighted Switches / Push-button with Lamp Symbol	90797 T	BR MF GE PE AL IS PM DU	2

Control devices | Rockers / Cover plates

	Description	Order code	Box (Un)		Description	Order code	Color	Box (Un)
	Rocker Push-button with Identification - 250V~ 10A - 250V~	21155	10		Rocker for Switches with Identification Card	90603 T	BR MF GE PE AL IS PM DU	2
	Double Push-button (2NO+2NC) 10A - 250V~	21154	10					
	Double Push-button 10A - 250V~	21156	10		Double Rockers	90611 T	BR MF GE PE AL IS PM DU	20 2
	Rocker Push-button / Two-way Switch 10A - 250V~	21159	10					
	Rocker Push-button with Identification - 12V 6A - 12V	21165	10		Rocker for Switches with Identification Card	90603 T	BR MF GE PE AL IS PM DU	2
	Venetian Double Push-button 10A - 250V~	21281	10		Rockers for Venetian Push-buttons	90612 T	BR MF GE PE AL IS PM DU	20 2
	Blind push-button switch, turned contacts 10 A - 250 V	21282	10					
	Venetian Double Push-button for multiple points Blinds Control 10A - 250V~	21283	10		Rockers for Venetian Push-buttonsswitch	90612 T	BR MF GE PE AL IS PM DU	20 2
	Venetian Switch 10A - 250V~	21290	10		Rockers for Venetian Switch	90613 T	BR MF GE PE AL IS PM DU	20 2
	Venetian Switch with Mechanical Blockage 10A - 250V~	21291	10					

Control devices

Rockers / Cover plates

	Order code	Box (Un)			Order code	Color	Box (Un)
Rotary Two-way Switch - 16A 16AX - 250V~ - ON - OFF - ON.	21301	10		Cover Plate for Rotary Push-button / Two-way Switch	90761 T	BR MF GE PE AL IS PM DU	2
Rotary Switch - 16A 16AX - 250V~	21302	10		Cover Plate for Rotary Switch (ON/OFF)	90762 T	BR MF GE PE AL IS PM DU	2
Rotary Push-button - 16A 16A - 250V~ - ON - OFF - ON.	21303	10		Cover Plate for Rotary Push-button / Two-way Switch	90761 T	BR MF GE PE AL IS PM DU	2
Key Lock Push-button 10A - 250V~ - ON - OFF - ON. - It allows to remove the key in OFF position.	21351	10		Cover Plate for Key Lock Push-button / Two-way Switch	90351 T	BR MF GE PE AL IS PM DU	1
Key Lock Two-way Switch 10AX - 250V~ - ON - OFF - ON. - It allows to remove the key in 3 positions.	21352	10					
One Circuit Digital Time Switch - Rated voltage: 230V~ - 50Hz. - Breaking capacity: 16A. - Output type: ON, OFF and PULSE.	21041	10		Cover Plate for One Circuit Digital Time Switch	90743 T	BR MF GE PE AL IS PM DU	1
Two Circuits Digital Time Switch - Rated voltage: 230V~ - 50Hz. - Breaking capacity: 6A + 6A. - Output type: ON, OFF and PULSE.	21042	10		Cover Plate for Two Circuits Digital Time Switch	90744 T	BR MF GE PE AL IS PM DU	1
Buzzer 230V~ - 50Hz - D type. - 5/15 sec.	21990	10		Cover Plate for Loud-speaker of 2" - 32 Ohm / Buzzer	90710 T	BR MF GE PE AL IS PM DU	2

Control devices

Rockers / Cover plates

	Order code	Box (Un)			Order code	Color	Box (Un)
General Blinds Control Module with Infrared Remote Control - Rated voltage: 230V~ - 50Hz. - Breaking capacity: 6A. - 2 programmable functions (Up/ Down). - Function: "Standby".	21311	10		Cover Plate for General Blinds Control Module with Infrared Remote Control	90311 T	BR MF GE PE AL IS PM DU	1
Local Blinds Control Module with Infrared Remote Control - Rated voltage: 230V~ - 50Hz. - Breaking capacity: 6A. - Possibility to be controlled by the Infrared Remote Control Transmitter for Blinds Control (Ref. 81901) or by the Infrared Remote Control Transmitter Multifunctions (Ref. 81900)	21312	10		Cover Plate for Local Blinds Control Module with Infrared Remote Control	90312 T	BR MF GE PE AL IS PM DU	1
Motion Detector - 1000W - Rated voltage: 230V~ - 50Hz. - Sensibility regulation. - Range of detection: 8 meters. - Detection angle: 160º. - Inverter contact (NO+NC), voltage free.	21401	10		Cover Plate for Motion Detectors	90401 T	BR MF GE PE AL IS PM DU	1
Motion Detector - 400W - Rated voltage: 230V~ - 50Hz. - Sensibility regulation. - Range of detection: 8 meters. - Detection angle: 160º. - Inverter contact (NO+NC), voltage free.	21402	10					

Temperature Control

Rockers / Cover plates

	Order code	Box (Un)			Order code	Color	Box (Un)
Programmable Chronothermostat - Rated voltage: 230V~ - 50Hz. - Breaking capacity: 16A. - Inverter contact (NO+NC), voltage free. - Range of temperature readings: -9ºC to 35ºC. - Optimized for electric or heating. - Possibility of connecting the Floor Temperature Sensor (Ref. 81950), with automatic self detection. Replace for 21230	21232	1		Cover Plate for Programmable Chronothermostat	90740 T	BR MF GE PE AL IS PM DU	1
Thermostat with Infrared Remote Control - Rated voltage: 230V~ - 50Hz. - Breaking capacity: 16A. - Inverter contact (NO+NC), voltage free. - Range of temperature readings: -9ºC to 35ºC. - Optimized for electric oor heating. Replace for 21231	21233	1		Cover Plate for Thermostat with Infrared Remote Control	90742 T	BR MF GE PE AL IS PM DU	1
Thermo sensor TC-3 for a simple programmable thermostat with infrared control - Length: 3 m - Range: 0 to 70 ° C - IP67	TC-3	1					

Dimmers

	Order code	Box (Un)
Dimmer for Fluorescent Lamps with Electronic Ballast EVG 1-10V - IMax - 40mA. - Silent.	21210	1
Ferromagnetic Dimmer/ Two-way Switch - 500VA R, L - 20 - 500W/VA.	21211	1
Electronic Dimmer/Two-way Switch - 320W R, C - 5 - 320W. - Silent.	21212	1
Electronic Dimmer/Two-way Switch - 550W R, C - 20 - 550W/VA. - Silent.	21213	1
Dimmer/Two-way Switch for Energy Saving Lamps - 110VA R, L - 7 - 110W/VA. - 3 - 35W LED's.	21214	1
Electronic Dimmer/Two-way Switch for Low Power Lamps - 150W R, C - 15 - 150W/VA. - 3 - 50W LED's. - Silent.	21215	1
Speed Controller for Induction Motors - 600VA - 25 - 600VA.	21219	1

Rockers / Cover plates

	Order code	Color	Box (Un)
Cover Plate for Dimmer / Two-way Switchdimmer	90721 T	BR MF GE PE AL IS PM DU	1

See page 41 for the maximum load on dimmers.

Energy sockets

	Order code	Box (Un)
Earth Socket (French Type) with Screwless Terminals 16A - 250V~	21110	10
Earth Socket (French Type) 16A - 250V~	21111	10
2P Socket 16A - 250V~	21121	10

Rockers / Cover plates (In the LOGUS90 Medical Design - LR VD VM)

	Order code	Color	Box (Un)
Safety Cover Plate for Earth Socket (French Type)	90652 T	BR MF **LR VD VM** GE PE AL IS PM DU	20 2
IP44 Cover Plate for French Socket with Safety and Hinged Lid	90654 T	BR MF GE PE AL IS PM DU	20 2
Cover Plate for 2P Socket	90621 T	BR MF GE PE AL IS PM DU	20 2
Safety Cover Plate for 2P Socket	90622T	BR MF GE PE AL IS PM DU	20 2

Legend: T - Rocker, Cover Plate or Frame. BR - White, MF - Ivory, GE - Ice, PE - Pearl, AL - Aluminium, IS - Gray, PM - Black, DU - Gold.
Wiring diagrams can be found on pages 32 to 43.

LOGUS90 Medical Design:
LR - Orange   VD - Green   VM - Red

Energy sockets

	Order code	Box (Un)
Earth Socket (Schuko Type) with Screwless Terminals 16A - 250V~	21130	10
Double Earth Socket (French Type) 16A - 250V~	21470	10
Earth Socket (Schuko Type) 16A - 250V~	21131	10
Earth Socket (Euro-USA Type) 15A - 127V~ / 16A - 250V~	21140	10
Earth Socket (USA NEMA Type) 15A - 127V~	21143	10

Rockers / Cover plates (In the LOGUS90 Medical Design - LR VD VM)

	Order code	Color	Box (Un)
Cover Plate for Earth Socket (Schuko Type)	90631 T	BR MF **LR VD VM** GE PE AL IS PM DU	20 2
Safety Cover Plate for Earth Socket (Schuko Type)	90632 T	BR MF **LR VD VM** GE PE AL IS PM DU	20 2
IP44 Cover Plate for Schuko Socket with Safety and Hinged Lid	90634 T	BR MF GE PE AL IS PM DU	20 2
Safety Cover Plate for Double Earth Socket (French)	90656 T	BR MF LR VD VM GE PE AL IS	2
Cover Plate for Earth Socket (Schuko Type)	90631 T	BR MF **LR VD VM** GE PE AL IS PM DU	20 2
Safety Cover Plate for Earth Socket (Schuko Type)	90632 T	BR MF **LR VD VM** GE PE AL IS PM DU	20 2
IP44 Cover Plate for Schuko Socket with Safety and Hinged Lid	90634T	BR MF GE PE AL IS PM DU	20 2
Cover Plate for Earth Socket (Euro-USA Type)	90841 T	BR MF **LR VD VM** GE PE AL IS PM DU	20 2
Safety Cover Plate for Earth Socket (Euro-USA Type)	90842 T	BR MF **LR VD VM** GE PE AL IS PM DU	20 2
Safety Cover Plate for Earth Socket (USA NEMA Type)	90843 T	BR MF **LR VD VM** GE PE AL IS PM DU	20 2

Legend: T - Rocker, Cover Plate or Frame. BR - White, MF - Ivory, GE - Ice , PE - Pearl, AL - Aluminium, IS - Gray, PM - Black, DU - Gold.

LOGUS90 Medical Design:
LR - Orange   VD - Green   VM - Red

Other Mechanisms

		Order code	Box (Un)
	Cable Outlet - Three Terminals - 3x2,5mm² - 250V~.	21173	10
	Cable Outlet - Four Terminals - 4x2,5mm² - 250V~.	21174	10
	Pilot Light - Max. 5W (E14) 250V~. - To be used with Lamp (Ref.81012)	21360	10
	Support for Blind Cover Plate	21222	10
	Screw Terminal Loudspeaker Socket	21220	4
	PODA-275 Module of overvoltage protection SPD type 3	6058	1

Rockers / Cover plates

	Order code	Color	Box (Un)
Cover Plate for Cable Outlets	90671 T	BR MF GE PE AL IS PM DU	20 2
Cover for Pilot Light	90781 T	IC LR VD VM	2
Small E14 - 5W Lamp — Order code 81012			
Blind cover plate	90677 T	BR MF GE PE AL IS PM DU	10 2
Cover Plate for Screw Terminal Loudspeaker Socket	90713 T	BR MF GE PE AL IS PM DU	4 2

IC - illuminated, transparent; LR - illuminated, orange; VD - illuminated, green; VM - illuminated, red

Data sockets

		Order code	Box (Un)
	RJ45 Cat. 5e UTP Socket (Supplied with connector)	21453	10
	RJ45 Cat. 6 UTP Socket (Supplied with connector)	21455	10
	RJ45 Cat. 5e STP Socket (Supplied with connector)	21443	10
	RJ45 Cat. 6 STP Socket (Supplied with connector)	21445	10

Rockers / Cover plates

	Order code	Color	Box (Un)
Cover Plate for Single RJ45 Computer Sockets	90751 T	BR MF GE PE AL IS PM DU	20 2

Telephone socket

50V 70V~

		Order code	Color	Box (Un)
	Telephone Socket (4 conductors) 50V / 70V ~	21252 S*	BR MF CZ AT	10
	Telephone socket 6 contacts	21253 S*	BR MF CZ AT	10
	T8 French Telephone Socket 8 contacts	21411	-	10

Rockers / Cover plates

	Order code	Color	Box (Un)
Cover Plate for Telephone Socketcover	90712 T	BR MF GE PE AL IS PM DU	20 2
Cover Plate for T8 French Telephone Socket	90718 T	BR MF GE PE AL IS PM DU	20 2

Radio, television and satellite sockets

Series connection

		Order code	Box (Un)
	R - TV - SAT Socket (Terminal Type) - series connection - 4 - 2400 MHz: < 5dB. - Current flow - 500mA (DC).	21555	10
	R - TV - SAT Socket (Crossover Type) - 4 - 2400 MHz: < 9dB. - Current flow - 500mA (DC). - Insertion losses: 2dB.	21565	10
	R - TV Socket (Terminal Type) - 4 - 82 MHz: < 5dB. - 84 - 108 MHz: < 6dB. - 112 - 1000 MHz: < 5dB.	21554	10
	R - TV Socket (Crossover Type) - 4 - 1000 MHz: < 9dB. - Insertion losses: 2dB.	21564	10

Star connection

		Order code	Box (Un)
	R - TV Socket Star Connection - star connection - 4 - 82 MHz: < 1dB. - 84 - 108 MHz: < 2dB. - 112 - 1000 MHz: < 1dB.	21533 Replace for 21530	10
	R - TV - SAT Socket Star Connection - 4 - 862 MHz: < 1dB. - 950 - 2400 MHz: < 3dB. - Current ow - 500mA (DC).	21543	10

Rockers / Cover plates

	Order code	Color	Box (Un)
Cover Plate for R - TV - SAT Sockets	90775 T	BR MF GE PE AL IS PM DU	10 5
Cover Plate for R - TV Sockets	90776 T	BR MF GE PE AL IS PM DU	10 5
Cover Plate for R - TV Sockets	90776 T	BR MF GE PE AL IS PM DU	10 5
Cover Plate for R - TV - SAT Sockets	90775 T	BR MF GE PE AL IS PM DU	10 5

Multimedia socket

Star connection

		Order code	Box (Un)
	R - TV - SAT - RJ45 Cat. 6 UTP - FO SC-APC Multimedia Socket for Star Connection - 4 - 862 MHz: < 1dB. - 950 - 2400 MHz: < 3dB. - Current flow - 500mA (DC).	21545	10
	R - TV - SAT - RJ45 Cat. 6 UTP Multimedia Socket for Star Connection - To be used with a SC APC Simplex or LC Duplex Fibre Optic Connector - 4 - 862 MHz: < 1dB. - 950 - 2400 MHz: < 3dB. - Current flow - 500mA (DC).	21544	10
	R - TV - SAT - 2xRJ45 Cat. 6 UTP Multimedia Socket for Star Connection - 4 - 862 MHz: < 1dB. - 950 - 2400 MHz: < 3dB. - Current flow - 500mA (DC).	21546	10
	R - TV - RJ45 Cat. 6 UTP - FO SC-APC Multimedia Socket for Star Connection - 4 - 82 MHz: < 1dB. - 84 - 108 MHz: < 2dB. - 112 - 1000 MHz: < 1dB.	21535	10
	R - TV - RJ45 Cat. 6 UTP Multimedia Socket for Star Connection - 4 - 82 MHz: < 1dB. - 84 - 108 MHz: < 2dB. - 112 - 1000 MHz: < 1dB.	21534	10

Rear view: www.elkoep.com/multimedia

Rockers / Cover plates

		Order code	Color	Box (Un)
	Cover Plate for R - TV - SAT - RJ45 / R - TV - SAT - RJ45 - FO Multimedia Sockets	90770 T	BR MF GE PE AL IS PM DU	10 5
	Cover Plate for R - TV - SAT - 2xRJ45 Multimedia Socket	90773 T	BR MF GE PE AL IS PM DU	10 5
	Cover Plate for R - TV - RJ45 / R - TV - RJ45 - FO Multimedia Sockets	90774 T	BR MF GE PE AL IS PM DU	10 5

RJ45 connectors

		Order code	Box (Un)
	RJ45 Cat. 5e UTP Connector (100 MHz)	21975	5
	RJ45 Cat. 6 UTP Connector (250 MHz)	21978	5
	RJ45 Cat. 5e STP Connector (100 MHz)	21985	5
	RJ45 Cat. 6 STP Connector (250 MHz)	21988	5
	Double RJ45 Cat. 5e UTP Connector (1 input / 2 outputs)	21980	5
	Telephone Plug - 6 Positions with 4 Contacts (Plug 6x4)	82025	50
	Telephone Plug - 6 Positions with 6 Contacts (Plug 6x6)	82026	50

Rockers / Cover plates

		Order code	Color	Box (Un)
	Cover Ring with Double Support for RJ45 Connectors	90442 S	BR MF GE PE AL IS PM DU	20 2

Legend: S - Semi-assembled.; T - Rocker, Cover Plate or Frame. BR - White, MF - Ivory, GE - Ice , PE - Pearl, AL - Aluminium, IS - Gray, PM - Black, DU - Gold.
Wiring diagrams can be found on pages 32 to 43.
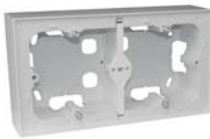
Couplers for fibre optic connectors

		Order code	Box (Un)
	Coupler for SC APC Duplex Fibre Optic Connector	82211	10
	Coupler for SC APC Simplex Fibre Optic Connector	82210	10
	Coupler for LC Duplex Fibre Optic Connector	82213	10

Rockers / Cover plates

		Order code	Color	Box (Un)
	Cover Plate for Coupler for SC APC Duplex Fibre Optic Connector	90448 S	BR MF GE PE AL IS PM DU	10
	Cover Plate for Coupler for SC APC Simplex / LC Duplex Fibre Optic Connector	90449 S	BR MF GE PE AL IS PM DU	10

USB sockets

		Order code	Color	Box (Un)
	Double USB Charger Type A - 100-240 V/AC - 50/60Hz. - 5V ±3%; 2,1A. To install the USB socket, the module cover (adapter) 90881 T is required. 45 x 45 x 35 mm	45439	BR MF GE PE AL IS DU PM	1
	21470 Universal Cover Ring / Adapter for 45x45 Modules 85 x 85 x 8.5 mm	90881 T	BR MF VM GE PE AL IS PM DU	2

Accessories

		Order code	Color	Box (Un)
	LOGUS90 Series	QUADRO 45 Series Surface Mounting Box - To be used only with Single Frames in the QUADRO 45 Series. 85 x 85 x 40 mm	10976 A	BR MF GE PE AL IS DU PM	10
	LOGUS90 Series	Double Surface Mounting Box Accessories for mounting flush mounting devices 85 x 160 x 40 mm	10994 A	BR MF GE PE AL IS DU PM	5
	LOGUS90 Series	Triple Surface Mounting Box Accessories for mounting flush mounting devices 85 x 230 x 40 mm	10995 A	BR MF GE PE AL IS DU PM	1
	Cover for Mechanisms Protection 85 x 85 x 8.5 mm	21971	-	40
	Level and Mounting Accessory for MEC 21 Mechanism 85 x 227 x 8.5 mm	21989	-	20

Legend: S - Semi-assembled.; A - Accessories. T - Rocker, Cover Plate or Frame; Dimensions: H x W x D.
BR - White, MF - Ivory, GE - Ice, PE - Pearl, AL - Aluminium, IS - Gray, PM - Black, DU - Gold.

Accessories

	Order code	Color	Box (Un)
Card for Card-system Switch 85 x 298 x 8.5 mm	21999	-	5 2
21470 Universal Cover Ring / Adapter for 45x45 Modules 85 x 85 x 8.5 mm	90881 T	BR MF VM GE PE AL IS PM DU	2
Relay for Blinds Control - Rated voltage: 230V~ – 50Hz. - Breaking capacity: 6A. - Not temporized. - Connect locally to Venetian Double Push-button (Ref. 21283 / 45283 S). - For the centralized command of the installation, connect remotely to a Venetian Double Push-button (Ref. 21283 / 45283 S). • See Technical Data Sheet - page 40	81511	-	1
Automatic Relay for Blinds Control - Rated voltage: 230V~ – 50Hz. - Breaking capacity: 6A. - Temporized. - Connect to the Double Push-buttons and to the Venetian Double Push-buttons. • See Technical Data Sheet - page 39	81512	-	1
Infrared Remote Control Transmitter for Blinds Control - 4 groups of buttons with 2 programmable functions. - It works with 2 AAA batteries, not included.	81901	-	1
Infrared Remote Control Transmitter for Thermostat - 2 groups of buttons to associate with Blinds Control. - It works with 2 AAA batteries, not included.	81902	-	1
Waterproof Frame IP44	90961 T	BR MF GE PE AL IS PM DU	1
IP44 Kit for MEC 21 Mechanisms - Single Rocker	21981	-	1
IP44 Kit for MEC 21 Mechanisms - Double Rockers	21982	-	1
Replacement LED for MEC 21 / 48 Series - 12V	81018	-	10
Replacement LED for MEC 21 / 48 Series - 250V~	81019	-	10

Legend: T - Rocker, Cover Plate or Frame. Dimensions: H x W x D.
BR – White, MF – Ivory, GE – Ice, PE – Pearl, AL – Aluminium, IS – Gray, VM – Red , PM - Black, DU - Gold.

Semi-assembled (Supplied without connectors)

	Order code	Color	Box (Un)
Data socket RJ45 2 ouputs (without connectors)	90450 S (a)	BR MF GE PE AL IS	10

Complete devices

	Order code	Color	Box (Un)
Monoblock Earth Socket (Schuko Type) 16A - 250V~	90135 C	BR MF GE PE AL IS PM DU	10
Monoblock Safety Earth Socket (Schuko Type),with safety diaphragm 16A - 250V~	90138 C	BR MF GE PE AL IS PM DU	10
Monoblock Safety Earth Socket (Schuko Type) with safety diaphragm 16A - 250V~	90139 C	BR MF GE PE AL IS PM DU	10
Earth Socket (British Type) with Switch and Pilot Lamp 13A - 250V~	90183 C	BR MF GE PE AL IS PM DU	10
Earth Socket (British Type) 13A - 250V~	90184 C	BR MF GE PE AL IS PM DU	10
Double Earth Socket (British Type) with Switch and Pilot Lamp 13A - 250V~	90343 C	BR MF GE PE AL IS PM DU	5
Double Earth Socket (British Type) 13A - 250V~	90344 C	BR MF GE PE AL IS PM DU	5
Monoblock Double Earth Socket (Schuko Type) 16A - 250V~	90331 C	BR MF GE PE AL IS PM DU	10
Monoblock Double Safety Earth Socket (Schuko Type) 16A - 250V~	90332 C	BR MF GE PE AL IS PM DU	10
Electronic Dimmer/Two-way Switch - 320W R, C - 5-320W. - Silent.	90212 C	BR MF GE PE AL IS PM DU	1

Legend: C - Complete devices; S - Semi-assembled. BR - White; MF - Ivory; GE - Ice ; PE - Pearl; AL - Aluminium; IS - Gray, PM - Black, DU - Gold.
To obtain complete or semi-assemblies in the CRYSTAL, METALLO, ARBORE or PETRA series, replace the AQUARELLA frames with the appropriate row.

Frames - BASE series

		Order code	Color	Box (Un)
	Single Frame	90910 T	BR MF	20
	Double Frame	90920 T	BR MF	10
	Triple Frame	90930 T	BR MF	10
	Four-Gang Frame	90940 T	BR MF	2
	Five-Gang Frame	90950 T	BR MF	2
	Monoblock Cover for Earth Socket (Schuko Type)	90902 T	BR MF GE PE AL IS PM DU	20
	Monoblock Cover for Safety Earth Socket (Schuko Type)	90903 T	BR MF GE PE AL IS PM DU	20
	Monoblock Cover for Safety Earth Socket (French Type)	90904 T	BR MF GE PE AL IS PM DU	20
	Back Plate + cover for Antenna socket R + TV	90905 T	BR MF	20
	Back plate + cover of R TV + SAT socket	90906 T	BR MF	2
	Back Plate + cover for Data socket R TV + DAT	90907 T	BR MF	2

Legend: T - Rocker, Cover Plate or Frame. BR – White; MF – Ivory; GE - Ice ; PE - Pearl; AL - Aluminium; IS - Gray, PM - Black, DU - Gold.

Frames - AQUARELLA series

		Order code	Color	Box (Un)
	Single Frame	90910 T	GE PE AL IS PM DU	2
	Double Frame	90920 T	GE PE AL IS PM DU	2
	Triple Frame	90930 T	GE PE AL IS PM DU	2
	Four-Gang Frame	90940 T	GE PE AL IS PM DU	2
	Five-Gang Frame	90950 T	GE PE AL IS PM DU	2

Legend: T - Rocker, Cover Plate or Frame. GE - Ice, PE - Pearl, AL - Aluminium, IS - Gray, PM - Black, DU - Gold.

Frames - ANIMATO series

		Order code	Color	Box (Un)
	Single Frame	90910 T	BB EE MM PP RG TS DG BS ZG AA JG AS VG SS PS PG RR PA UG UU	2
	Double Frame	90920 T	BB EE MM PP RG TS DG BS ZG AA JG AS VG SS PS PG RR PA UG UU	2
	Triple Frame	90930 T	BB EE MM PP RG TS DG BS ZG AA JG AS VG SS PS PG RR PA UG UU	2
	Four-Gang Frame	90940 T	BB EE MM PP RG TS DG BS ZG AA JG AS VG SS PS PG RR PA UG UU	2

Legend: T - Rocker, Cover Plate or Frame.
BB - White/White, EE - Ice/Ice, MM - Ivory/Ivory, PP - Pearl/Pearl, RG - Yellow/Ice, TS - Brick/Gray, DG - Green/Ice,
BS - Wine/Gray, ZG - Blue/Ice, AA - Aluminium/Aluminium, JG - Orange/Ice, AS - Aluminium/Gray, VG - Red/Ice, SS - Gray/Gray,
PS - Black/Gray, PG - Black/Ice, RR - Black/Black, PA - Black/Aluminium, UG - Gold/Ice, UU - Gold/Gold.

Frames - CRYSTAL series

		Order code	Color	Box (Un)
	Single Frame	90910 T/ 90910 E	CG CP CA CS/ EC EG EA ES EP	1
	Double Frame	90920 T/ 90920 E	CG CP CA CS/ EC EG EA ES EP	1
	Triple Frame	90930 T/ 90930 E	CG CP CA CS/ EC EG EA ES EP	1
	Four-Gang Frame	90940 T/ 90940 E	CG CP CA CS/ EC EG EA ES EP	1
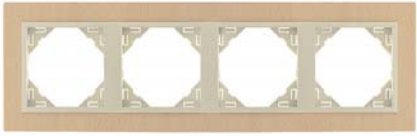
Legend: T/E - Rocker, Cover Plate or Frame. CG - Cristal/Ice; CP - Cristal/Pearl; CA - Cristal/Aluminium; CS - Cristal/Gray; EC - Glass - black/Pearl; EG - Glass - black/Ice; EA - Glass - black/Aluminium; ES - Glass - black/Gray, EP - Glass - black/Black.

Frames - ARBORE series

		Order code	Color	Box (Un)
	Single Frame	90910 T	FP JP MS NA	1
	Double Frame	90920 T	FP JP MS NA	1
	Triple Frame	90930 T	FP JP MS NA	1
	Four-Gang Frame	90940 C	FP JP MS NA	1

Legend: T - Rocker, Cover Plate or Frame. FP - Beach Wood/Pearl, JP - Cherry Tree /Pearl, MS - Mahogany/Gray, NA - Walnut Tree/Aluminium.

Frames - METALLO series

		Order code	Color	Box (Un)
	Single Frame	90910 T	TP IA OP QS US RS UU	1
	Double Frame	90920 T	TP IA OP QS US RS UU	1
	Triple Frame	90930 T	TP IA OP QS US RS UU	1
	Four-Gang Frame	90940 T	TP IA OP QS US RS UU	1

Legend: T - Rocker, Cover Plate or Frame. TP - Titanium/Pearl; IA- Inox/Aluminium; OP- Gold/Pearl; QS - Nickel/Gray; US - Aluminium/Gray; RS - Chrome/Gray; UU - Gold/Gold.

Frames - PETRA series

		Order code	Color	Box (Un)
	Single Frame	90910 T	GG GP GA GS	1
	Double Frame	90920 T	GG GP GA GS	1
	Triple Frame	90930 T	GG GP GA GS	1
	Four-Gang Frame	90940 C	GG GP GA GS	1

Legend: T - Rocker, Cover Plate or Frame. GG - Granite/Ice; GP - Granite/Pearl; GA - Granite/Aluminium; GS - Granite/Gray.

Frames - Dimensions (mm) - BASE and AQUARELLA

FRAME
+
DIMENSIONS

Single

85,6

10,4
15,8

85,6

Double

85,6

71,0
156,6

Triple

85,6

227,6

Four-Gang

85,6

298,6

Five-Gang

85,6

369,6
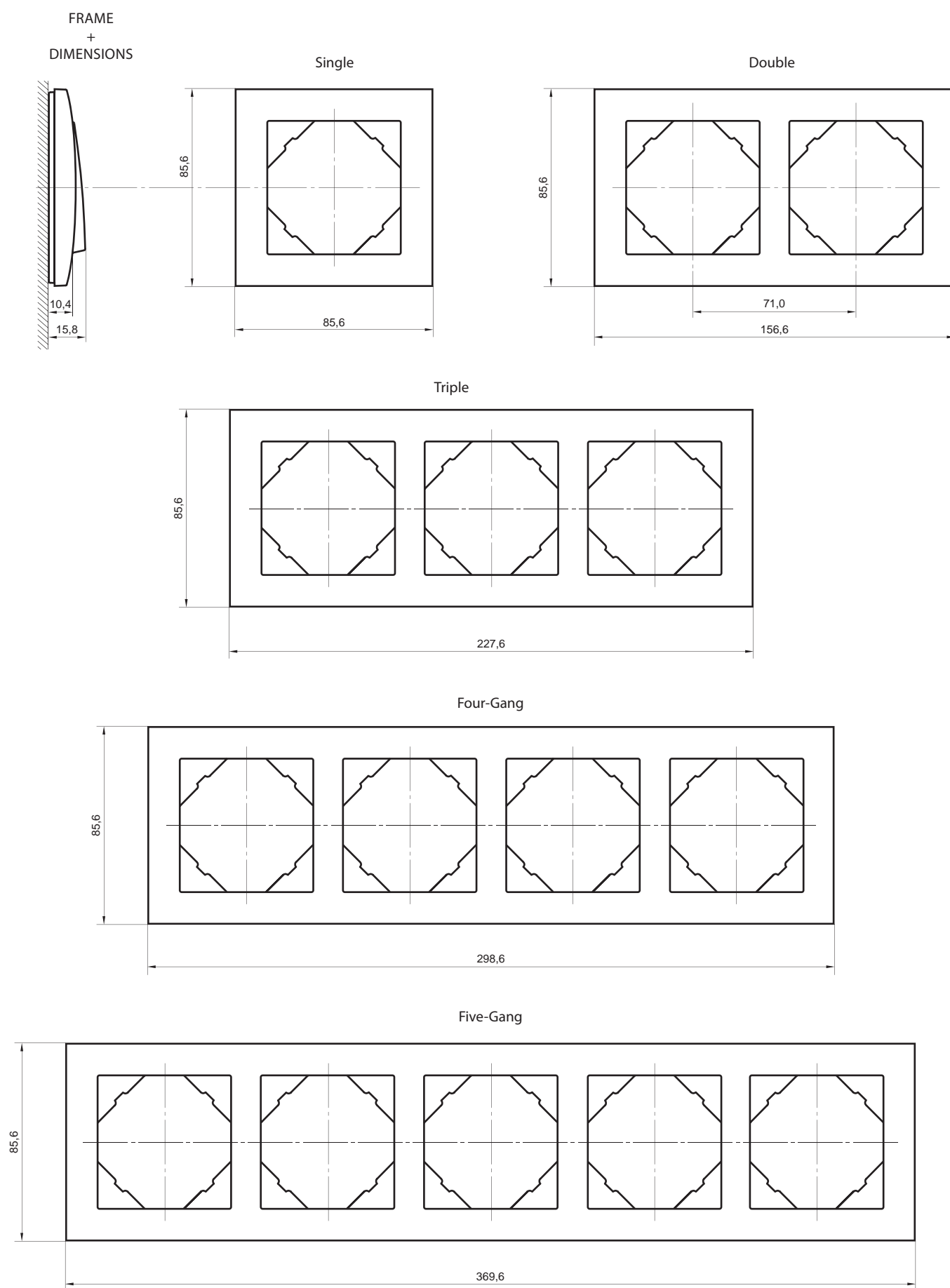
Frames - Dimensions (mm) - ANIMATO, CRYSTAL, METALLO, ARBORE and PETRA

FRAME
+
DIMENSIONS

Single

94,0

10,4
15,8

94,0

Double

94,0

71,0
165,0

Triple

94,0

236,0

Four-Gang

94,0

307,0
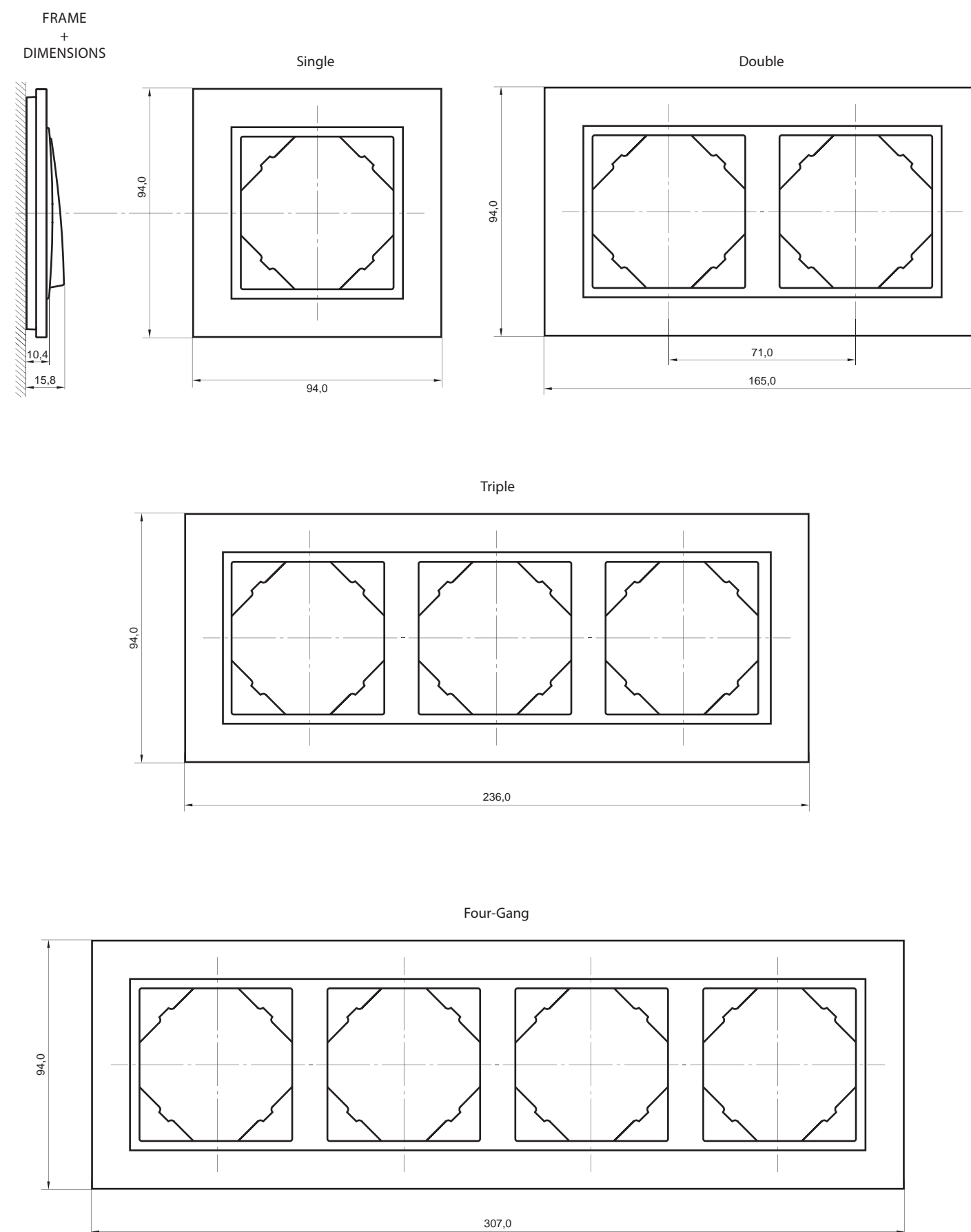
Devices designed for the LOGUS⁹⁰ design line

SINGLE POLE SWITCH
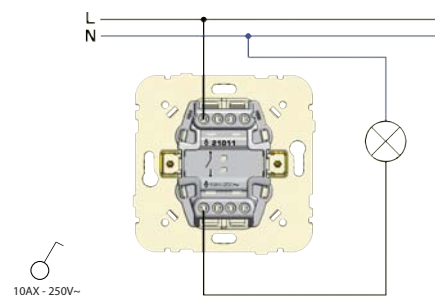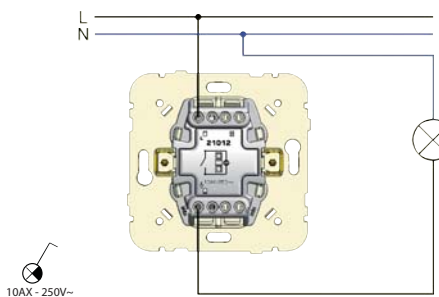
10AX - 250V~

SINGLE POLE SWITCH
WITH ORIENTING LIGHT

10AX - 250V~

SINGLE POLE SWITCH
WITH PILOT LAMP

10AX - 250V~

TWO-POLE SWITCH

10AX - 250V~

TWO-POLE SWITCH
WITH PILOT LAMP

10AX - 250V~

TWO-POLE SWITCH
WITH PILOT LAMP - 20A

20A - 250V~

CARD-SYSTEM SWITCH

10AX - 250V~

TWO CIRCUITS SWITCH

10AX - 250V~

THREE CIRCUITS SWITCH

16AX - 250V~

TWO-WAY SWITCH - 10A AND 20A

10AX - 250V~

TWO-WAY SWITCH WITH ORIENTING LIGHT

10AX - 250V~
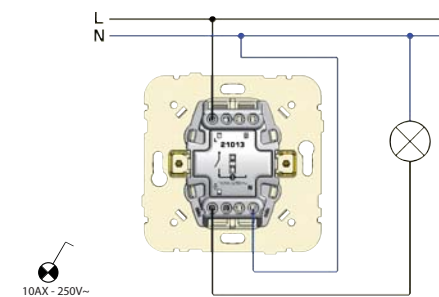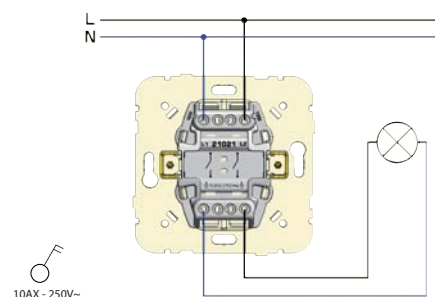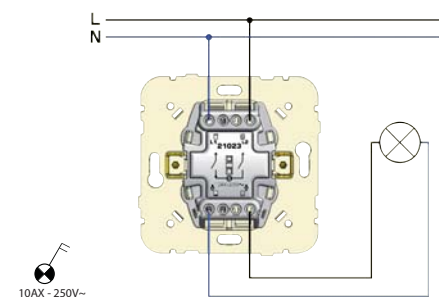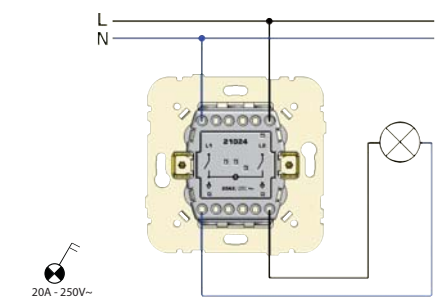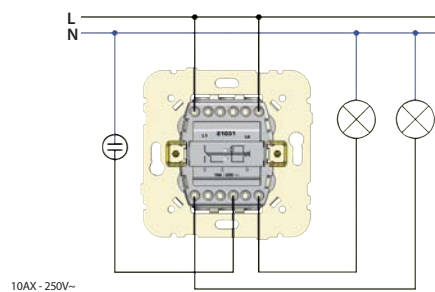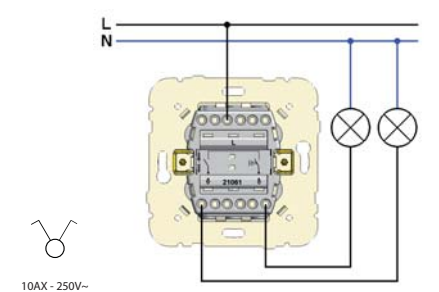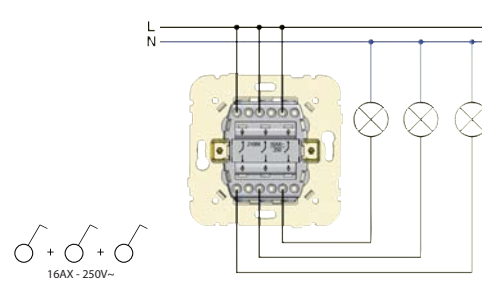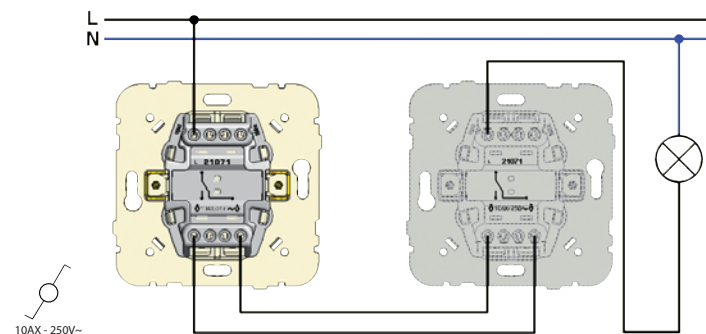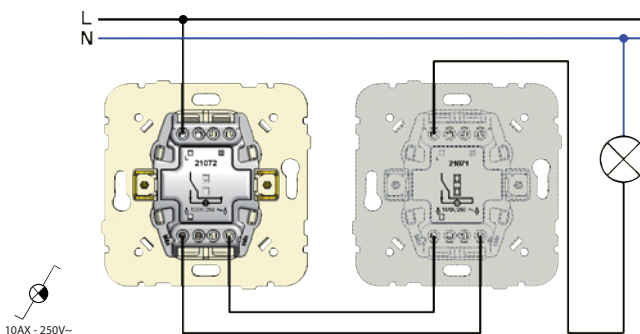
Devices designed for the LOGUS⁹⁰ design line

TWO-WAY SWITCH WITH PILOT LAMP
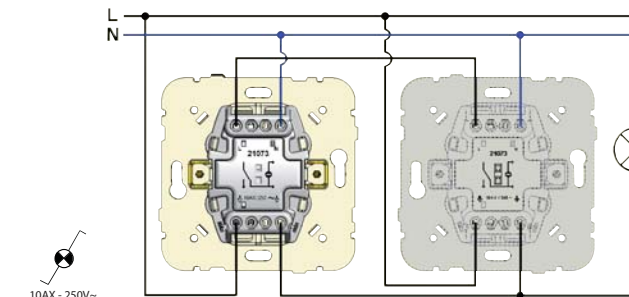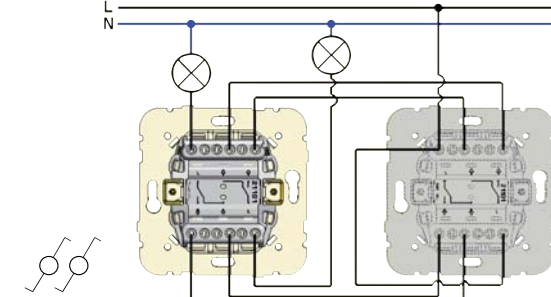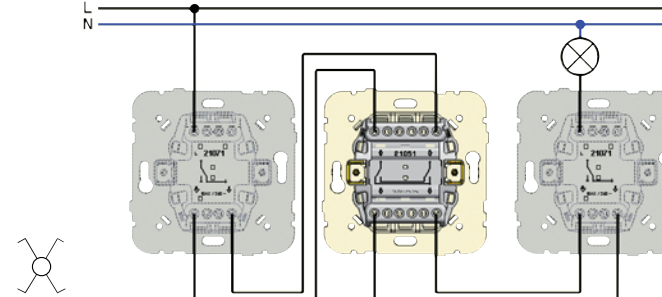
10AX - 250V~

DOUBLE TWO-WAY SWITCH - 10A AND 20A

10AX - 250V~

INTERMEDIATE SWITCH

10A - 250V~

INTERMEDIATE SWITCH WITH ORIENTING LIGH

10AX - 250V~

ROCKER PUSH-BUTTON

10A - 250V~

ROCKER PUSH-BUTTON (NO+NC)

10A - 250V~

NA   NF

ROCKER PUSH-BUTTON WITH ORIENTING LIGHT - 250V~

10A - 250V~
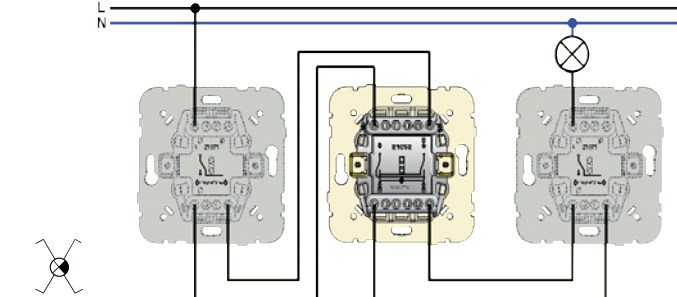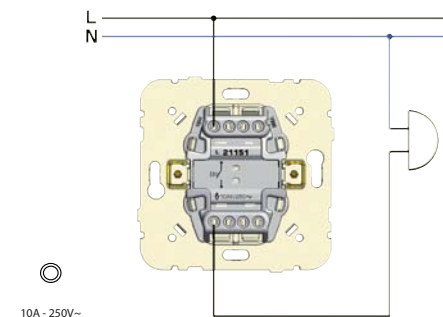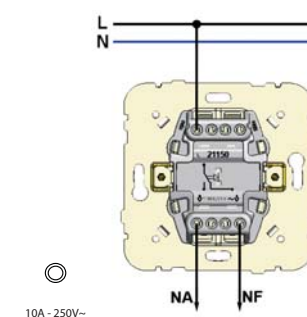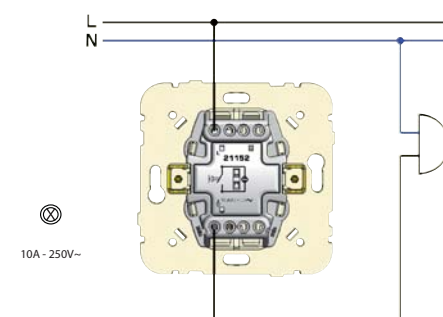
ROCKER PUSH-BUTTON WITH ORIENTING LIGHT - 12V

6A - 12V
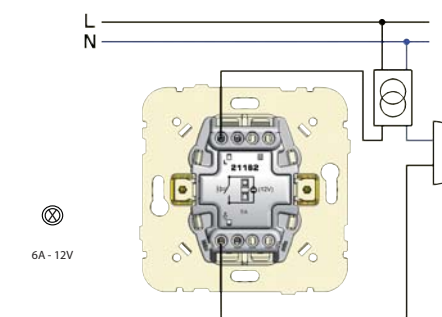
Devices designed for the LOGUS⁹⁰ design line

ROCKER PUSH-BUTTON WITH INDEPENDENT PILOT LAMP
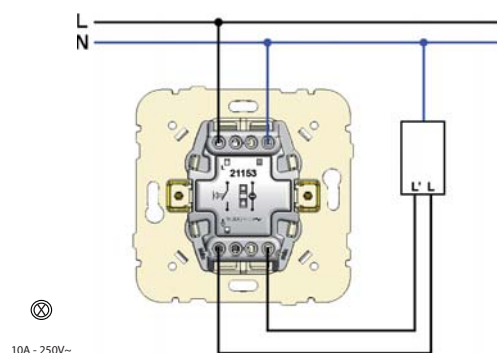
10A - 250V~

ROCKER PUSH-BUTTON WITH IDENTIFICATION - 250V~

10A - 250V~

ROCKER PUSH-BUTTON WITH IDENTIFICATION - 12V

6A - 12V

DOUBLE PUSH-BUTTON

10A - 250V~

DOUBLE PUSH-BUTTON (2NO+2NC)

NA | NF

NA | NF

10A - 250V~

ROCKER PUSH-BUTTON/TWO-WAY SWITCH

10A - 250V~
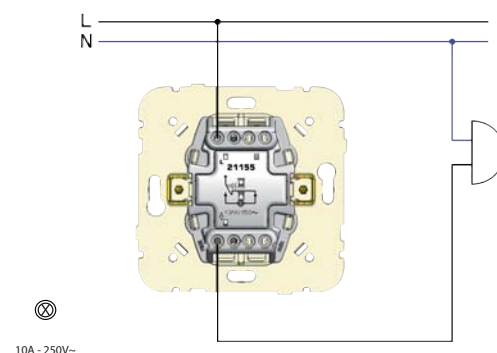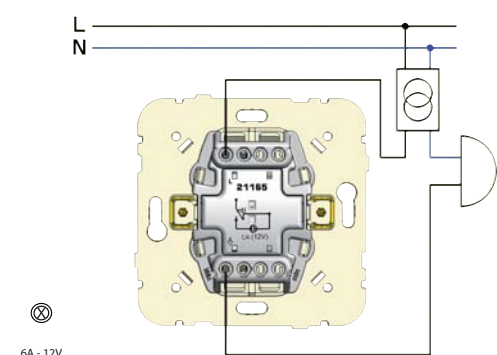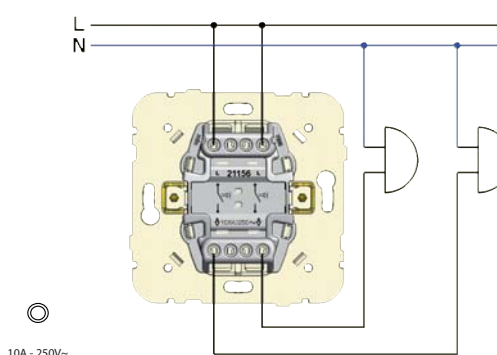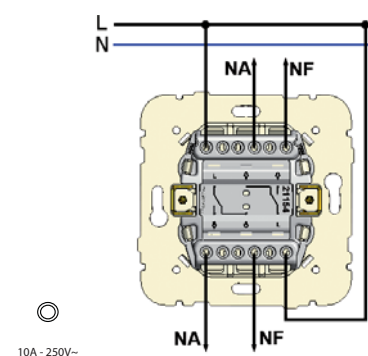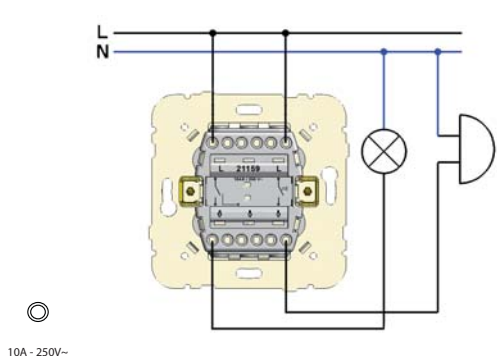
VENETIAN SWITCH / VENETIAN SWITCH WITH MECHANICAL BLOCKAGE

10A - 250V~

VENETIAN DOUBLE PUSH-BUTTON

10A - 250V~
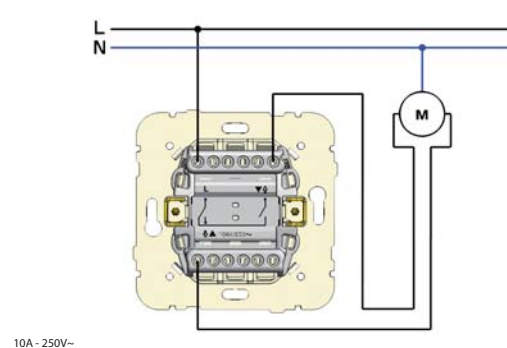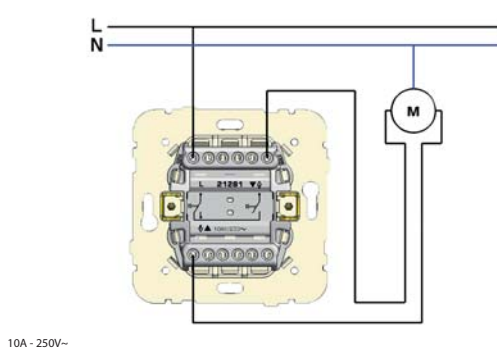
Devices designed for the LOGUS⁹⁰ design line

VENETIAN DOUBLE PUSH-BUTTON FOR MULTIPLE POINTS BLINDS CONTROL (CONTROL FROM 1 POINT)
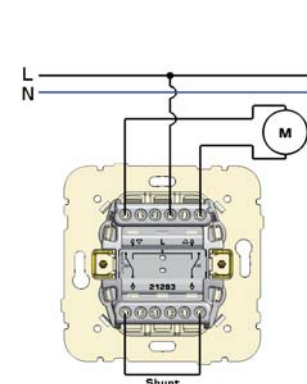
VENETIAN DOUBLE PUSH-BUTTON FOR MULTIPLE POINTS BLINDS CONTROL (CONTROL FROM 2 OR SEVERAL POINTS)

10A - 250V~
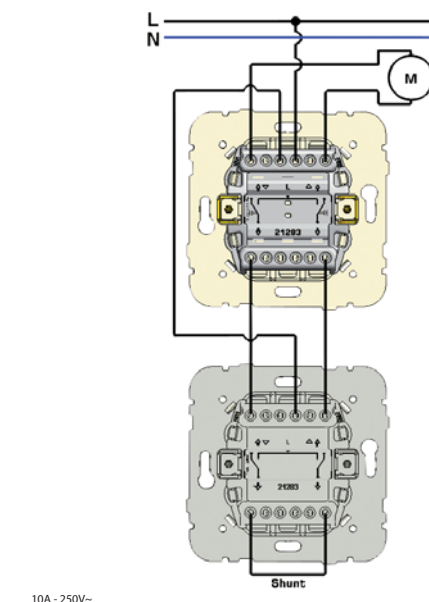
ROTARY TWO-WAY SWITCH - 16A
ROTARY PUSH-BUTTON - 16A
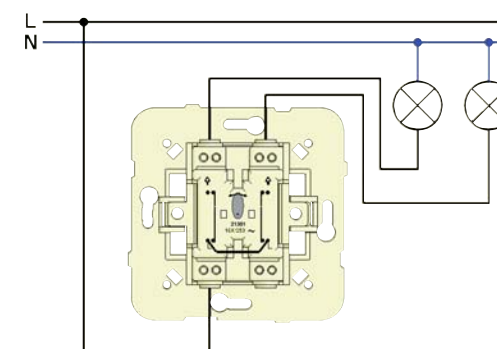
ROTARY SWITCH - 16A
PULL-CORD PUSH-BUTTON

16AX - 250V~
10A - 250V~
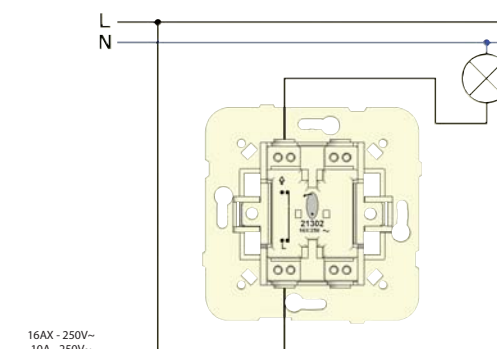
KEY LOCK TWO-WAY SWITCH
KEY LOCK PUSH-BUTTON

10AX - 250V~
10A - 250V~

PULL-CORD TWO-WAY SWITCH

10A - 250V~
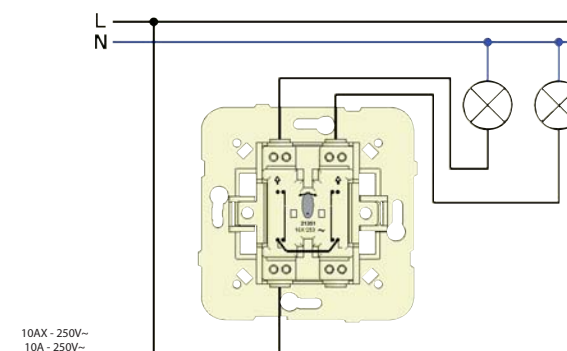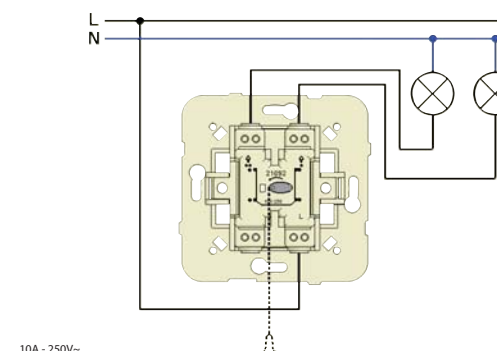
Motion detector (NO+NC)

Motion Detector - 1000W (Order code 21401/45401 S)
Motion Detector - 400W (Order code 21402/45402 S)

Controls the connection of electrical circuits according to the detection of motion and surrounding luminosity.
Compatible with any electrical load.
Wall mounting.
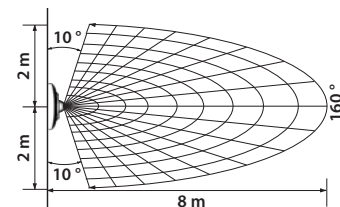
Technical parameters	Order code 21401/45401 S	Order code 21402/45402 S
Voltage range:	230 V~ - 50/60 Hz	
Consumption:	1 W	
Max. Light load:	1000 W	400 W
Sensitivity regulation:	√	
Operating time regulation:	5 sek. to 5 min.	
Range of detection:	8 m	
Detection angle:	160°	
Outputs:	NO / NC	

NB: NO - normally open; NC - normally closed.

• Operatin
1. Remove the cover of the mechanism to reach the adjustments potentiometers.
2. Proceed to make the necessary adjustments.

• Connection

Operating Time Regulation — Sensibility Regulation
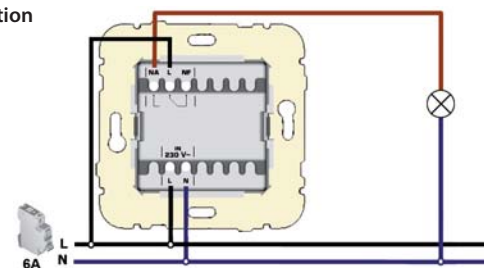
Dimmer

Electronic Dimmer/Two-way Switch - 320W R, C (Order code 21212)

Allows to adjust the luminous flux of one or more lamps.

Technical parameters	Order code 21212
Maximum load:	320 W
Minimum load:	5 W
Two-way function	
Switches:	√
Minimum intensity setting:	*
Fuse:	—
Bulbs:	√
Halogen lamps, 230 V ~:	√
Halogen lamps with ferromagnetic transformer:	—
Halogen lamps with electronic transformer:	√

Note: * - automatic setting

• Settings
Turn the potentiometer to adjust the intensity of the lamp or group of luminaires.
By pressing the button, the switch switches to the two-way dimmer function.
Check voltage on the bottom edge.
(Order code 21212)

• Connection
Electronic Dimmer/Two-way Switch

L
N

Two-way dimmer

L
N

Digital Time Switch

One Circuit Digital Time Switch (Order code 21041)
Two Circuits Digital Time Switch (Order code 21042)

The Digital Time Switch allows to control an installation or equipment according to daily or weekly programmed schedule. Includes capacity for 24 different program settings.
Automatic Winter-Summer official time adjustment and possibility of programming a period of inactivity (holydays).

Technical parameters	Order code 21041	Order code 21042
Voltage range:	230 V/ 50 Hz	
Power consumption:	1 W	
Breaking capacity:	6 A	6 A + 6 A
Programming accuracy:	1 s.	
Operating accurancy:	< 1 s / day	
Memory capacity:	32	
Output type:	ON - OFF - Pulz (1 to 59 s)	
Outputs:	NO and NC	2 NO and 2 NC
Block function:	√	
Backup batery:	√	

NB: NO - normally open; NC - normally closed.

• Connection
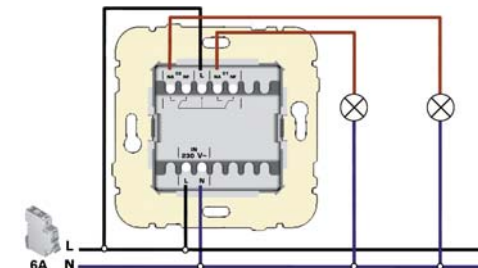
• Settings
C1 - Manual Channel 1, Decrease - Move down (in the menu)
C2 - Manual mode channel 2, Increase value - Go up in the menu
OK / Menu - Start Menu / Confirm Selection
STANDBY - Stop programming

Programmable Chronothermostat | Thermostat with Infrared Remote Control

Programmable Chronothermostat (Order code 21232/45232 S)

It allows to control manually or automatically the heating/cooling system in accordance with a daily/weekly programming and with preprogrammed temperatures.
Automatic winter/summer time change. Possibility of programming a period of inactivity (holydays).

Thermostat with Infrared Remote Control (Order code 21233/45233 S)

Allows to control the heating or cooling system in accordance with the required temperature. Possibility of connecting the Floor Temperature Sensor, with automatic self detection.Possibility to be controlled by the Infrared Remote Control Transmitter.

Technical parameters	Order code 21232/45232 S	Order code 21233/45233 S
Voltage range:	230 V / 50 Hz	
Consumption:	1 W	
Breaking capacity:	16 A	
Adjustable:	√	—
Sensitivity:	1 °C	
Range of temperatures readings:	0 to 35°C	
Timer:	—	15 to 90 min
Holiday program:	√	—
IR remote control:	—	√
Non-voltage contacts:	√	
Memory Backup Time:	3 h	

• Settings (Order code 21232/45232 S)
⊻ – Decline in values. Movements within the menu. Minimum temperature options. Manual switch to minimum temperature
⋏ – The rise in values. Movements within the menu. Choosing the maximum temperature. Manual switch to maximum temperature
C - Input Confirmation / Menu Access
OK - Wiring / connecting the device. Delete action

• Connection

Floor Temperature Sensor
Room heater

• Settings (Order code 21233/45233 S)
⊻ – Temperature drop. Drop in values
⋏ – Temperature rise. The rise of values
TIMER - ON / OFF function and timer

Electrical Blinds Control
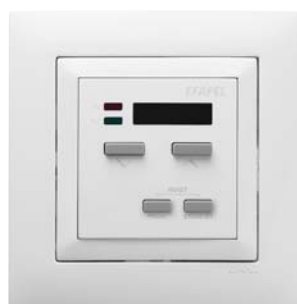
General Blinds Control Module with Infrared Remote Control (Order code 21311/45311 S)

They allow manually or automatically, the general or individual control of blinds, according to the programmed schedule or the surroundings conditions (luminosity, wind, etc.), measured by associated sensors.Local control of blinds. Possibility to be controlled by the Infrared Remote Control Transmitter for Blinds.

Local Blinds Control Module with Infrared Remote Control (Order code 21312/45312 S)

Individual control of blinds.Possibility to be controlled by the Infrared Remote Control Transmitter for Blinds Control or by the Infrared Remote Control Transmitter Multifunctions.

Technical parameters	Order code 21311/45311 S	Order code 21312/45312 S
Voltage range:	230 V / 50 Hz	
Consumption:	1 W	
Load capacity:	6 A (1380 W, cos φ =1)	
Programming:	2 functions (up and down)	—
Backup batery:	24 h	
Function:	Standby	—
Infrared Remote Control Transmitter:	√	

• Wiring diagram
Blinds Centralized Installation - With Blinds Control Modules
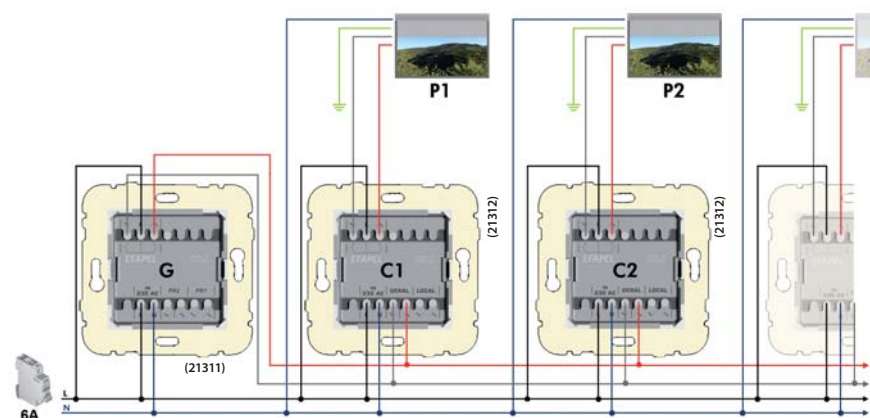
P1, P2 – blinds
G (21311) - main module
C1, C2.. (21312) - local module

• Settings (Order code 21311/45311 S)
⊻ – Blinds up / down (further) Menu
⊼ – Blinds up / Up menu
PROG - Program
PROG + STANDBY - Removing an existing program
STANDBY - Stop the current program

General Blinds Control (G)
Terminal
1. General Output - Down
2. Blinds Power Supply (line)
3. General Output - Up
4. Power Suply (line)
5. Power Suply (neutral)
6. Signal input priority 2 (230V~) - Down
7. Signal input priority 2 (230V~) - Up
8. Signal input priority 1 (230V~) - Down
9. Signal input priority 1 (230V~) - Up

• Settings (Order code 21312/45312 S)
⊻ – Blinds up / down (further) Menu
⊼ – Blinds up / Up menu

• Local Blinds Control (C1), (C2), ...
Terminal
1. Output for Motor - Down
2. Blinds Power Supply (line)
3. Output for Motor - Up
4. Power Suply (line)
5. Power Suply (neutral)
6. Signal input from General Blinds Control - Down
7. Signal input from General Blinds Control - Up
8. Signal input from the Local Blinds Control - Down
9. Signal input from the Local Blinds Control - Up

Electrical Blinds Control

Automatic Relay for Blinds Control (Order code 81512)

Allows to control the individual and general control of a set of blinds.
Can be installed into a standard wall box, in the derivation boxes near the blinds or in deep wall boxes and behind the wiring devices installed in the same box.

Technical parameters	Order code 81512
Voltage range:	230 V / 50 Hz
Consumption:	1 W
Load capacity:	6 A (1380 W, cos φ=1)
Opening and closing time:	90 s
Electrical blockage:	√
Dimensions (H x W x D):	48 x 36.3 x 24 mm

• Wiring Diagram
Blinds Centralized Installation - with Automatic relayS for blinds control (Ref. 81512)
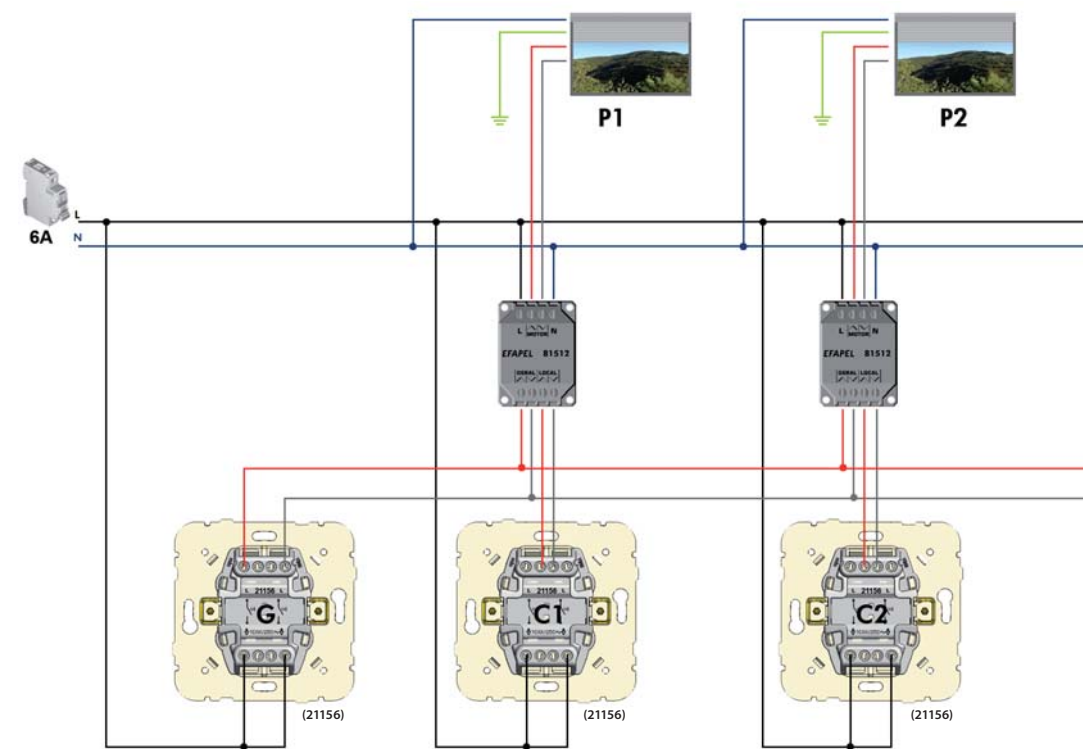
P1, P2 – blinds
G (21156) - main module
C1, C2.. (21156) - local module

Note: The protection against two simultaneous orders of open or close applied in the same device or different devices, is guaranteed by the software of the relay.

• Automatic Relay for Blinds Control (Ref. 81512)
Terminal
⊻   Output for motor - Down
⊼   Output for motor - Up
L   Phase
N   Neutral
⊻   Signal input for central control - Down
⊼   Signal input for central control - Up
⊻   Signal input for local control - Down
⊼   Signal input for local control - Up

Electrical Blinds Control

Relay for Blinds Control (Order code 81511)

Allows the individual and general control of a set of blinds.
Can be installed into a standard wall box, in the derivation boxes near the blinds or in deep wall boxes and behind the wiring devices installed in the same box.

Technical parameters	Order code 81511
Voltage range:	230 V / 50 Hz
Consumption:	1 W
Load capacity:	6 A (1380 W, cos φ = 1)
Opening and closing time:	90 s
Electrical blockage:	x*
Dimensions (H x W x D):	48 x 36.3 x 24 mm

* Electrical blockage: with the Relay for Blinds Control, the electrical blockage (protection against two simultaneous orders) is guaranteed by the association of the Relay for Blinds Control with the Venetian Double Push-button for Multiple Points Blinds Control (Ref. 21283 / 45283 S).

• Wiring Diagram
Blinds Centralized Installation - with RELAYS for BLINDS CONTROL (Ref. 81511)
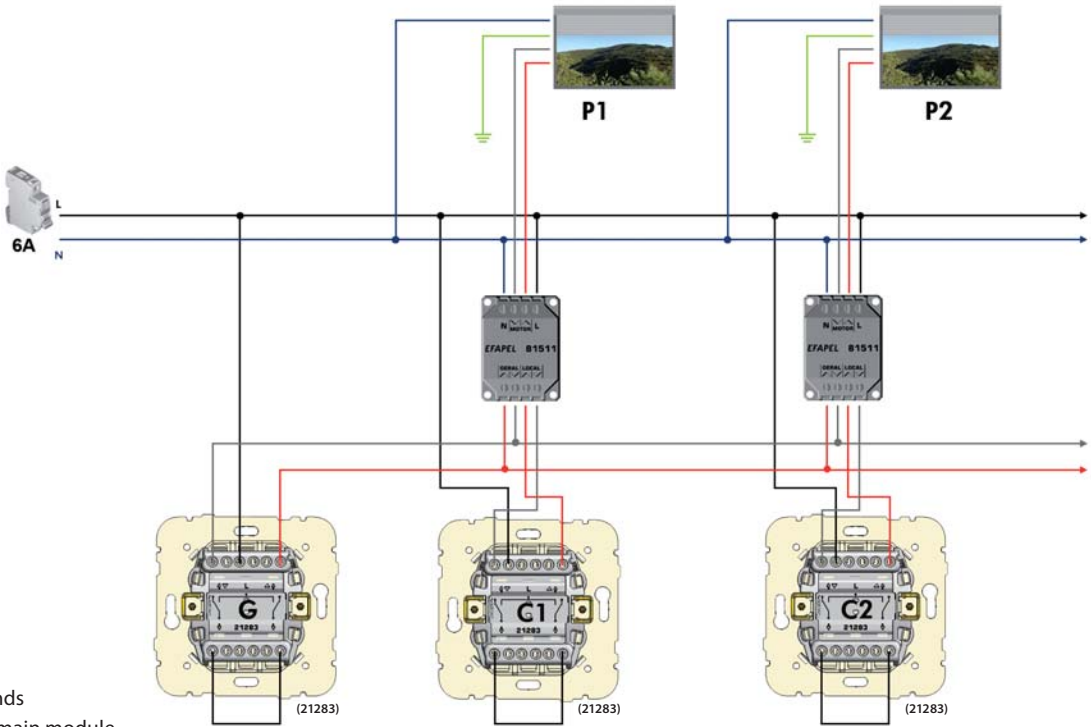
P1, P2 – blinds
G (21283) - main module
C1, C2.. (21283) - local module

Notes: The protection against two simultaneous opening and close orders in the same device or different devices is guaranteed by the combination of the mechanism (Ref. 21283 / 45283 S) and the relay (Ref. 81511). For this reason, this relay works only with the mentioned mechanism.

• Functions (Order code 81511)
Terminal
- ▼ Output for motor - Down
- ▲ Output for motor - Up
- L Phase
- N Neutral
- ▼ Signal input for central control - Down
- ▲ Signal input for central control - Up
- ▼ Signal input for local control - Down
- ▲ Signal input for local control - Up

Dimmer

MEC 21 Mechanisms:
– Finishings - LOGUS⁹⁰ | **sirius70** | APOLO 5000.
Allows to adjust the luminous flux of one or more lamps.

• Function
- rotary variation of luminous flux.
- Press button for ON / OFF switching status.

• Maximum Recommended Loads

230V~ 50 Hz	Type	Fuse	Min.	R Max.	R Max.	230V~/12V~ RL DIMMABLE Max.	230V~/12V~ RC DIMMABLE Max.	CFL DIMMABLE RC Max.	LED DIMMABLE RC Max.	EVG 1-10 V Max.	M Max.
Ref. 21210	-	F0.8A/250V~	-	-	-	-	-	-	-	40 mA	-
Ref. 21211	◢	T2A/250V~	20 W/VA	500 W	500 W	500 VA	-	-	-	-	-
Ref. 21212	◣	-	5 W/VA	320 W	320 W	-	320 VA	-	-	-	-
Ref. 21213	◣	-	20 W/VA	550 W	550 W	-	550 VA	-	-	-	-
Ref. 21214	◢	T1A/250V~	7 W/VA 3 W (LED)	110 W	110 W	110 VA	-	110 W	35 W	-	-
Ref. 21215	◣	-	15 W/VA 3 W (LED)	150 W	150 W	-	150 VA	150 W	50 W	-	-
Ref. 21216	◢	T2A/250V ~	20 W/VA 3 W (LED)	250 W	250 W	250 VA	-	250 W	85 W	-	-
Ref. 21217	◣	-	15 W/VA 5 W (LED)	450 W	450 W	-	450 VA	450 W	150 W	-	-
Ref. 21219	◢	F2.5A/250V~	20 W/VA	600 W	600 W	-	-	-	-	-	600 VA

USB Charger

USB sockets - 2100 mA - Allows portable devices (smartphones, tablets, MP3, etc.) to be charged.

Mechanism: **QUADRO 45** series

Compatible with: LOGUS⁹⁰

Using the X0881 T adapter of each series.

Technical parameters	Order code 45439
Voltage / Frequency:	100~240 V / AC 50~60 Hz
Output voltage:	DC 5 V ±3%
Output current:	0~2100 mA
Maximum Output Power:	10.5 W Max.
Efficiency:	78 %
Standby power consumption:	0.2 W Max.
Insulation resistance:	500 V DC/100 MΩ

• Connection

Note:
It is recommended to install this plug as a terminal device in the circuit.

Multimedia Sockets | Radio, Television and Satellite sockets
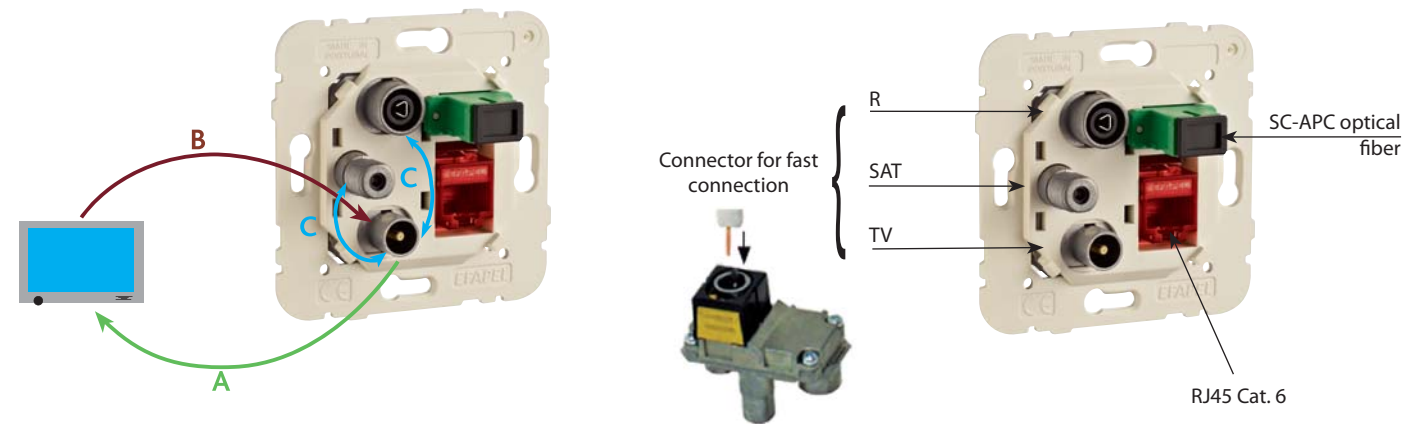
A	Derivation Losses
B	Return Losses
C	Isolation between Outputs

Sockets Typ

Typology		Order code		RADIO	TV	SAT	FO SC-APC	RJ45 Cat. 6
STAR CONNECTION		Multimedia	21545	◯	◉	●	▣	▤
		Multimedia	21544	◯	◉	●	-	▤
		Multimedia	21546	◯	◉	●	-	▤▤
	Star Connection	Multimedia	21535	◯	◉	-	▣	▤
	Star Connection	Multimedia	21534	◯	◉	-	-	▤
		R - TV - SAT	21543	◯	◉	●	-	-
		R - TV	21533	◯	◉	-	-	-
SERIES CONNECTION	CROSSOVER / TERMINAL	R - TV - SAT	21555	◯	◉	●	-	-
		R - TV	21554	◯	◉	-	-	-
	CROSSOVER / TERMINAL	R - TV - SAT	21565	◯	◉	●	-	-
		R - TV	21564	◯	◉	-	-	-

Multimedia Sockets | Radio, Television and Satellite sockets

R - TV - SAT SOCKETS (Impedance of 75 Ohm)

LINEAL	Outputs		Derivation Losses (dB)										Insertion Losses dB	Insulation between Outputs dB	Return Losses dB	DC Current Passage mA (DC)
	Connector/ Outputs		RETURN	BI	Sub Band	FM	S. Low	BIII /DAB	S. High Hyper	UHF	SAT					
Order code			4-47 MHz	47-68 MHz	68-80 MHz	84-108 MHz	112-174 MHz	174-230 MHz	230-446 MHz	470-862 MHz	950-2150 MHz	2150-2400 MHz				
STAR 21543 21544 21545 21546 45543 S NQ 2b	IEC MALE	TV ◉	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	>20	>18	--
	IEC FEMALE	R ◯	<20	<20	<20	<20	<20	<20	<20	<20	--	--				--
	F FEMALE	SAT ●	--	--	--	--	--	--	--	--	<3	<3				(SAT-IN) 500mA
TERMI-NAL 21555 45555 S NQ 2b	IEC MALE	TV ◉	5±1	5±1	5±1	5±1	5±1	5±1	5±1	5±1	--	--	--	>12	>18	--
	IEC FEMALE	R ◯	<20	<20	<20	<20	<20	<20	<20	<20	--	--				--
	F FEMALE	SAT ●	--	--	--	--	--	--	--	--	5±1	5±1				(SAT-IN) 500mA
CROSSO-VER 21565 45565 S NQ 2b	IEC MALE	TV ◉	9±1	9±1	9±1	9±1	9±1	9±1	9±1	9±1	--	--	<3	>12	>18	--
	IEC FEMALE	R ◯	18±1	18±1	18±1	18±1	18±1	18±1	18±1	18±1	--	--				--
	F FEMALE	SAT ●	--	--	--	--	--	--	--	--	9±1	9±1				(SAT-IN) 500mA

R - TV SOCKETS (Impedance of 75 Ohm)

EQUALIZED	Outputs		Derivační ztráty (dB)										Insertion Losses dB	Insulation between Outputs dB	Return Losses dB
	Connector/ Outputs		RETURN	BI	Sub Band	FM	S. Low	BIII /DAB	S. High Hyper	UHF	SAT				
Order code			4-47 MHz	47-68 MHz	68-80 MHz	84-108 MHz	112-174 MHz	174-230 MHz	230-446 MHz	470-862 MHz	950-2150 MHz	2150-2400 MHz			
STAR 21533 21534 21535 45533 S NQ 2a	IEC MALE	TV ◉	<1	<1	<1	--	<1	<1	<1	<1	--	--	--	>20	--
	IEC FEMALE	R ◯	--	--	--	2±0.3	--	--	--	--	--	--			
TERMI-NAL 21554 45554 S NQ 2a	IEC MALE	TV ◉	5±1	5±1	5±1	--	5±1	5±1	5±1	5±1	--	--	--	>20	>18
	IEC FEMALE	R ◯	--	--	--	6±1	--	--	--	--	--	--			
CROSSO-VER 21564 45564 S NQ 2a	IEC MALE	TV ◉	9±1	9±1	9±1	--	9±1	9±1	9±1	9±1	--	--	1±0.5	>20	>18
	IEC FEMALE	R ◯	--	--	--	9±1	--	--	--	--	--	--			

Jazz Light series

At home, in the office or in public areas, it gives you a feeling of comfort and well-being...

The **Jazz Light Series** features a variety of components for the Surround Sound application in buildings, offices, apartments, houses and shopping centres.

Thanks to its new central audio modulation units and sound control units, it is possible to simplify the installation and use of the Surround Sound System itself.

The Efapel Company **Jazz Light** sound system lets you listen to your favourite music comfortably anywhere in your house and control it according to your needs.

Listen to what you want: you can tune in directly to your favourite radio, or if you prefer your own music selection, you can connect to another source (MP3 player, PC, TV, mobile phone) thanks to the additional input. So you can enjoy your favourite music, movie or live concert on TV, etc. with the best sound quality.

Experience music where you want and want: Enjoy great music, movie or concert in your living room as loud as you really like it!

Production of the new **Jazz Light Series** are part of the LOGUS⁹⁰ design series and offer a wide range of options to decorate and customise your area.

Flush Mounting Loudspeakers of 2"   Cover Plates

	Order code	Box (Un)			Order code	Color	Box (Un)
Loudspeaker of 2" - 32 Ohm	21581	1		Cover Plate for Loudspeaker of 2" - 32 Ohm	90710 T	BR MF GE PE AL IS	2 1

Flush Mounting Loudspeakers of 5"

	Order code	Color	Box (Un)
Loudspeaker of 5" - 32 Ohm for Ceiling Mounting - Mounting Ø diameter: 145 mm - External dimensions: Ø 180 mm - Maximum power: 30W. - Frequency response: 70 - 15000Hz.	75023 C	BR MF	1
Loudspeaker of 5" - 16 Ohm for Ceiling Mounting - Mounting Ø diameter: 145 mm - External dimensions: Ø 180 mm - Maximum power: : 30W. - Frequency response: 70 - 15000Hz.	75022 C	BR MF	1
Loudspeaker of 5" - 8 Ohm for Ceiling Mounting - Mounting Ø diameter: 145 mm - External dimensions: Ø 180 mm - Maximum power: 30W. - Frequency response: 70 - 15000Hz.	75021 C	BR MF	1

Surface Mounting Loudspeakers of 5"

	Order code	Color	Box (Un)
Surface Mounting Flat 2-Way Loudspeaker of 5" - 32 Ohm - External dimensions (mm): 274 x 185 x 36,5. - Maximum power: 15W. - Frequency response: 80 - 19000Hz.	75106 C	BR	1
Surface Mounting Flat 2-Way Loudspeaker of 5" - 16 Ohm - External dimensions (mm): 274 x 185 x 36,5. - Maximum power: 15W. - Frequency response: 80 - 19000Hz.	75105 C	BR	1
Surface Mounting Flat 2-Way Loudspeaker of 5" - 8 Ohm - External dimensions (mm): 274 x 185 x 36,5. - Maximum power: 15W. - Frequency response: 80 - 19000Hz.	75104 C	BR	1

Flush Mounting Loudspeakers of 6,5"

	Order code	Color	Box (Un)
Squared Grid 2-Way Loudspeaker of 6,5" - 32 Ohm - External dimensions (mm): 220 x 220 x 93. - Maximum power: 60W. - Frequency response: 60 - 20000Hz.	75083 C	BR MF	1
Squared Grid 2-Way Loudspeaker of 6,5" - 16 Ohm - External dimensions (mm): 220 x 220 x 93. - Maximum power: 60W. - Frequency response: 60 - 20000Hz.	75082 C	BR MF	1
Squared Grid 2-Way Loudspeaker of 6,5" - 8 Ohm - External dimensions (mm): 220 x 220 x 93. - Maximum power: 60W. - Frequency response: 60 - 20000Hz.	75081 C	BR MF	1

PARAMETER	UNIT	MODEL			
TYPE	Inches	2"	5"	6.5"	5"
INSTALLATION	-	Flush Mounting	Flush Mounting / in ceiling		Surface Mounting
IMPEDANCE	Ohm	32	32 / 16 / 8	32 / 16 / 8	32 / 16 / 8
MAXIMUM POWER	W	10	30	60	15
FREQUENCY RESPONSE	Hz	450 - 5000	70 - 15000	60 - 20000	80 - 19000

Legend: T - Rocker, Cover Plate or Frame. C - Complete devices. Dimensions: H x W x D. BR - White; MF - Ivory; GE - Ice ; PE - Pearl; AL - Aluminium; IS - Gray.
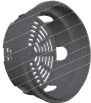
Sound control units | Cover Plates

	Order code	Box (Un)			Order code	Color	Box (Un)
1 Mono Channel Sound Control Unit	21371	1		Cover Plate for 1 Mono Channel Sound Control Unit	90700 T	BR MF GE PE AL IS PM DU	2 1
1 Mono Channel Sound Control Unit with FM Tuner	21373	1		Cover Plate for 1 Mono Channel Sound Control Unit with FM Tuner	90703 T	BR MF GE PE AL IS PM DU	2 1
Audio-system unit - 4 channel mono	21374	1		Cover plate for audio unit - 4 channel MONO	90704 T	BR MF GE PE AL IS PM DU	2 1
Audio-system unit - 4 channels FM stereo	21378	1		Cover plate of audio unit - 1 channel FM MONO	90708 T	BR MF GE PE AL IS PM DU	2 1
1 Stereo Channel Sound Control Unit	21372	1		Cover Plate 1 Stereo Channel Sound Control Unit	90702 T	BR MF GE PE AL IS PM DU	2 1
1 Stereo Channel Sound Control Unit with FM Tuner	21377	1		Cover Plate for 1 Stereo Channel Sound Control Unit with FM Tuner	90707 T	BR MF GE PE AL IS PM DU	2 1
1 Stereo Channel Sound Control Unit with FM Tuner and Alarm Clock	21379	1		Cover Plate for 1 Stereo Channel Sound Control Unit with FM Tuner and Alarm Clock	90709 T	BR MF GE PE AL IS PM DU	2 1
1 Stereo Channel Sound Control Unit with FM Tuner, Alarm Clock and Infrared Remote Control	21370	1		Cover Plate for 1 Stereo Channel Sound Control Unit with FM Tuner, Alarm Clock and Infrared Remote Control	90715 T	BR MF GE PE AL IS PM DU	2 1
4 Stereo Channels Selector Module (To be used with 1 Stereo Channel Sound Control Unit in installations with Modular Sound Central Units with 3 Stereo Channel Auxiliary Input Module.)	21385	1		Cover plate for audio unit - 4 channel STEREO	90705 T	BR MF GE PE AL IS PM DU	2 1

Modular Sound Central Units | Cover Plates

	Order code	Box (Un)			Order code	Color	Box (Un)
1 Stereo Channel Modular Sound Central Unit	21391	1		Cover Plate for 1 Stereo Channel Modular Sound Central Unit	90851 T	BR MF GE PE AL IS PM DU	1
1 Stereo Channel Modular Sound Central Unit with FM Tuner	21392	1		Cover Plate for 1 Stereo Channel Modular Sound Central Unit with FM Tuner	90852 T	BR MF GE PE AL IS PM DU	1
Three stereo channel auxiliary input module	21393	1		Cover for auxiliary input module-3 stereo channels	90853 T	BR MF GE PE AL IS PM DU	1

Power supplies | Cover Plates

	Order code	Box (Un)			Order code	Color	Box (Un)
Power Supply Module 15V< ___ >5W - Input: 110/250V~ - 50Hz. - Output: 15V< ___ >5W. - Capacity to supply 1 Mono or Stereo Sound Control Unit.	21380	1		Cover Plate for Power Supply Module	90670 T	BR MF GE PE AL IS PM DU	1
Power Supply 15V< ___ >30W for DIN Rail Mounting - Input: 110/250V~ - 50/60Hz. - Output: 15V< ___ >30W. - Capacity to supply 10 Stereo Sound Control Units or 20 Mono Sound Control Units. - Size: 4,5 DIN Modules.					75052		1
Power Supply 15V< ___ >12W for Installation in Hollow Ceilings - Input: 110/250V~ - 50Hz. - Output: 15V< ___ >12W. - Capacity to supply 4 Stereo Sound Control Units or 8 Mono Sound Control Units. - Possible to mount on the Flush Mounting Deep Ceiling Box for Loudspeaker of 5" and Stereo/Mono Amplifier (Ref. 75984).					75053		1

Legend: T - Rocker, Cover Plate or Frame, BR - White; MF - Ivory; GE - Ice ; PE - Pearl; AL - Aluminium; IS - Gray, PM - Black, DU - Gold.

Accessories

Stereo / Mono Amplifier
- Output power: Stereo: 5W + 5W (4 Ohm); Mono: 8W (8 Ohm).
- Rated voltage: 15V< ___ >.
- Function: Stand by.
- Possible to mount on the Flush Mounting Deep Ceiling Box for Loudspeaker of 5" and Stereo/Mono - Amplifier (Ref. 75984).

75032	-	1

Flush Mounting Ceiling Box for Loudspeaker of 5"
- External dimensions (mm): Ø 165, P=64.

75983	-	10

Flush Mounting Deep Ceiling Box for Loudspeaker of 5" and Stereo/Mono Amplifier
- External dimensions (mm): Ø 165, P=92.

75984	-	10

Pre-installation Lid for Loudspeaker of 5"
- External dimensions (mm): Ø 173.
- To be used with Boxes Ref. 75983 and Ref. 75984.

75999 A	BR	2

Remote IR control
for unit - Order code 21370

75985	-	1

Flush Mounting Box for Squared Grid 2-Way Loudspeakers
- External dimensions (H x W x D): 227.8 x 227.8 x 119 mm.

75986	-	-

Legend: T - Rocker, Cover Plate or Frame, A - Accessory, BR - White; MF - Ivory; GE - Ice; PE - Pearl; AL - Aluminium; IS - Gray, PM - Black, DU - Gold.

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.

IP65

IK07

16A

Control Devices

		Order code	Color	Box (Un)
Single Pole Switch 16AX - 250V~		48011 C	CZ BR	10
Single Pole Switch with Orienting Light 16AX - 250V~		48012 C	CZ BR	10
Single Pole Switch with Pilot Lamp 16AX - 250V~		48013 C	CZ BR	10
Two Circuits Switch IP65, IK07 16AX - 250V~		48061 C	CZ BR	10
Two-pole Switch IP65, IK07 16AX - 250V~		48021 C	CZ BR	10
Two-pole Switch with Pilot Lamp 16AX - 250V~		48023 C	CZ BR	10
Intermediate Switch IP65, IK07 16AX - 250V~		48051 C	CZ BR	10
Intermediate Switch with Orienting Light IP65, IK07 16AX - 250V~		48052 C	CZ BR	10
Two-way Switch IP65, IK07 16AX - 250V~		48071 C	CZ BR	10
Two-way Switch with Orienting Light IP65, IK07 16AX - 250V~		48072 C	CZ BR	10
Two-way Switch with Pilot Lamp IP65, IK07 16AX - 250V~		48073 C	CZ BR	10
Double Two-way Switch IP65, IK07 16AX - 250V~		48101 C	CZ BR	10

Legend: C - Complete devices; BR -White; CZ - Gray.

Control Devices

		Order code	Color	Box (Un)
Rocker Push-button IP65, IK07 16A - 250V~		48151 C	CZ BR	10
Rocker Push-button with Orienting Light - 250V~ IP65, IK07 16A - 250V~		48152 C	CZ BR	10
Rocker Push-button with Orienting Light - 12V IP65, IK07 6A - 12V		48162 C	CZ BR	10
Venetian Double Push-button IP65, IK07 16A - 250V~		48281 C	CZ BR	10
Venetian Double Push-button for multiple points Blinds Control IP65, IK07 16A - 250V~		48283 C	CZ BR	10
Venetian Switch IP65, IK07 16A - 250V~		48290 C	CZ BR	10

Energy Sockets

		Order code	Color	Box (Un)
Safety Earth Socket (French Type) IP65, IK07 16A - 250V~		48112 C	CZ BR	10
Safety Single Phase Socket IP65, IK07 16A - 250V~		48122 C	CZ BR	10
Earth Socket (Schuko Type) IP65, IK07 16A - 250V~		48131 C	CZ BR	10
Safety Earth Socket (Schuko Type) IP65, IK07 16A - 250V~		48132 C	CZ BR	10

Legend: C - Complete devices; BR -White; CZ - Gray.

Dimensions (mm)

INSTRUMENT / SOCKET

8.8
74
4.3
IP65
64
44
51.7
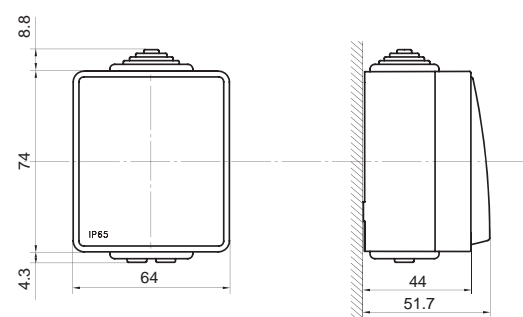
TWO-INSTRUMENT / SOCKET
- horizontal

8.8
74
4.3
IP65
64
129.5
49
52.5
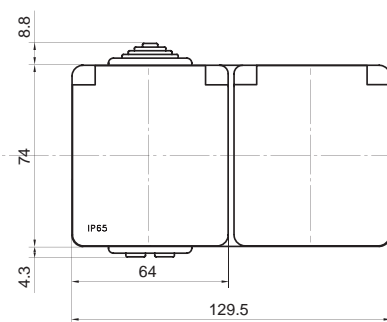
TWO-INSTRUMENT / SOCKET
- vertical

8.8
150.5
4.3
IP65
IP65
64
49
52.5
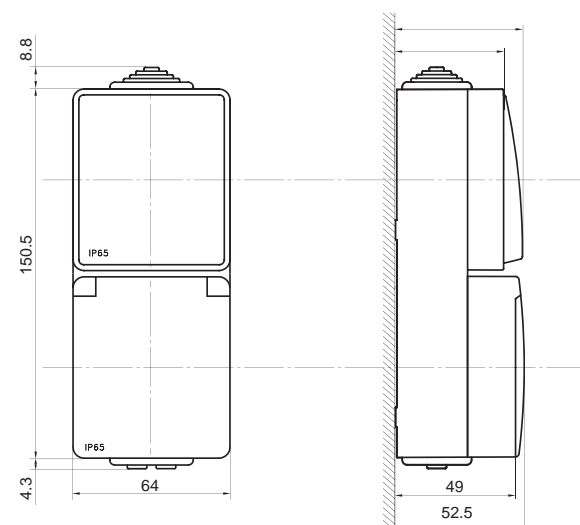
LARA... player in the switch

Radio / Music / Intercom / Videophone / Audiozone

www.inels.com

iNELS®

LARA Radio

- LARA Radio is a music and internet radio player - the size of a circuit breaker, in the LOGUS90 design (metal, wood, metal ...).
- LARA is used for example in the kitchen, bathrooms, waiting rooms, offices, receptions, entrance halls, operating rooms or wellness areas.
- LARA can play a radio stream and can store as many as 40 in connection with the internet. However, these can be selected from thousands of stations around the world that provide the correct connection data.
- LARA Radio can play the content of an external music source, for example, such as an iPhone, a smart phone, or an MP3 player. These devices are plugged into a 3.5 mm stereo audio jack input that is located at the bottom of the front panel.
- LARA Radio also plays audio files from the central data repository in which the Logitech Media Server is installed. When using with NAS, LARA NAS App is available.
- Operation is done by touching the front panel or infrared remote (included with the product package).
- LARA Radio is equipped with a 1.5 "OLED colour display (basic music playback information, setup menu orientation, etc.).
- LARA Radio has an integrated 2x10W amplifier, making it very easy to install the device in areas where the power is sufficient.
- LARA Radio is powered by PoE with a maximum voltage level of 27 V DC / 1000 mA. The advantage is one cable (UTP) for power and communication.
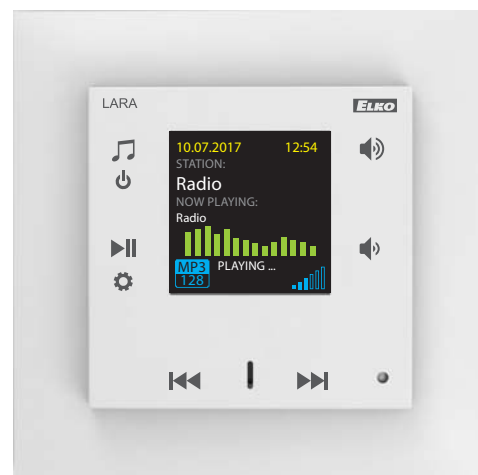
LARA Intercom

- Not only is LARA your radio and music player, but it is also an INTERCOM, VIDEOTELEPHONE and /or AUDIOZONE.
- LARA Intercom is suitable for installation in both residential and commercial buildings.
- INTERCOM allows bidirectional communication between people in the house, up to 8 LARA devices can communicate directly between them.
- In the case of a 2N IP installation (which has an integrated Asterisk disk), Intercom can be used not only between LARA devices but also among smartphones (with iHC-MA, iHC-MI installed).
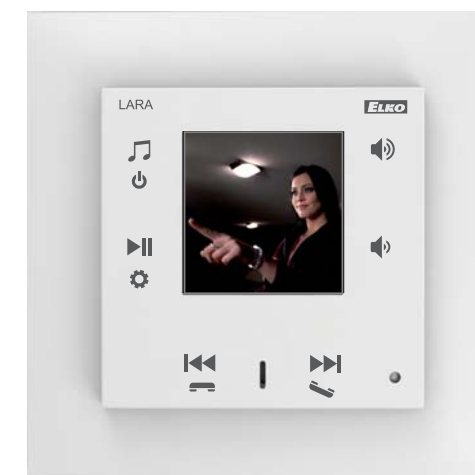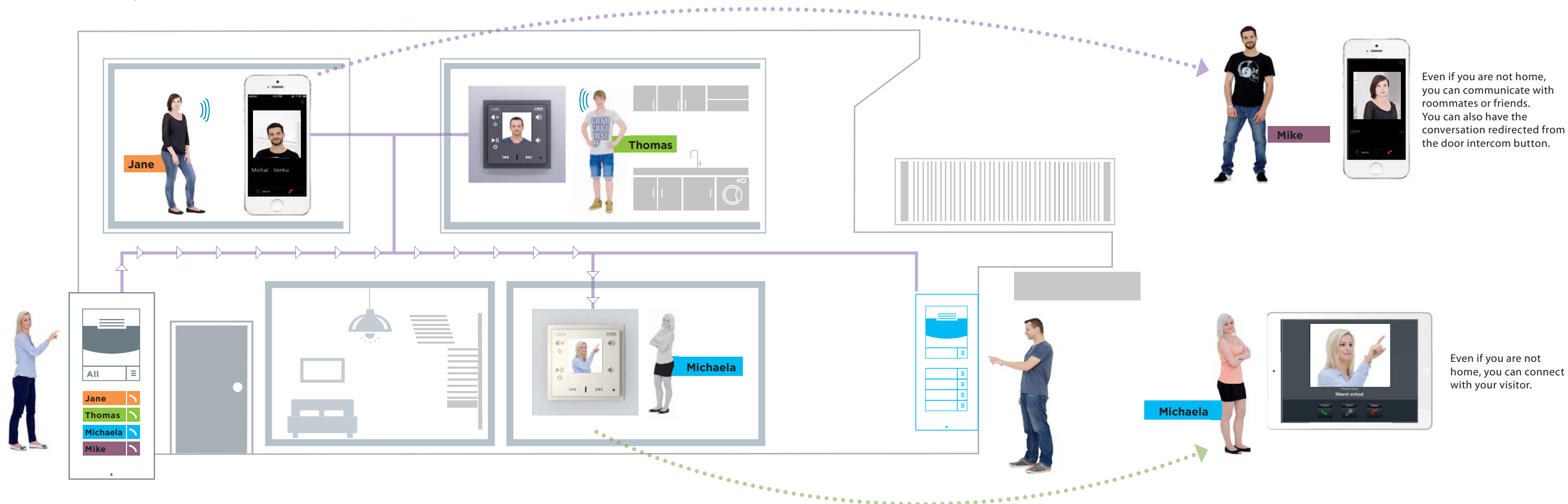- VIDEOTELEPHONE allows you to communicate with 2N and ALPHATECH TECHNOLOGIES (IP BOLD) IP from which LARA transmits picture and sound. If you are not at home, the call is automatically redirected to your smartphone.
- You can connect 6 LARA + 2 IP Phones (or combine them with up to 8 accounts in different ways). Once you have connected a "Connection server," you can use up to 30 LARA devices (combined with IP-speakers) in the installation, which is especially suitable for larger installations (buildings, apartment buildings).
- AUDIOZONE, which allows you to play your music in any area in the house.
- LARA Intercom also plays back audio files from the central data repository in which the Logitech Media Server is installed. This feature of LARA can be used within a comprehensive iNELS system or as a device completely independent of house automation. When used within iNELS, the control is part of a comprehensive iHC application. When using with NAS, LARA NAS App is available.

Intercom & Videophone

Even if you are not home, you can communicate with roommates or friends. You can also have the conversation redirected from the door intercom button.

Even if you are not home, you can connect with your visitor.

LARA allows you to communicate across the house (Intercom) as well as the door-to-door with the door phone (Videophone).

Up to 30 devices (LARA, phone, tablet ...) can be connected to the system. LARA can communicate with you outside of the house - all you need is an internet connection.

Installation

Flush mounting

The LARA device can be installed in an installation box (along with switches), in a design from one to five frames. This installation is recommended in places where at least one installation box is installed or in a place with hollow walls.


Surface mounting

Surface mounting enables installing the LARA device in places where structural modifications are impossible or difficult to perform. The box is designed for one frame only with selection of installations of external speakers mounted on walls or ceiling.
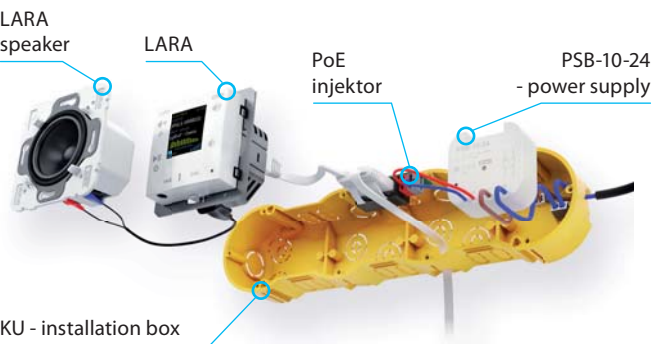

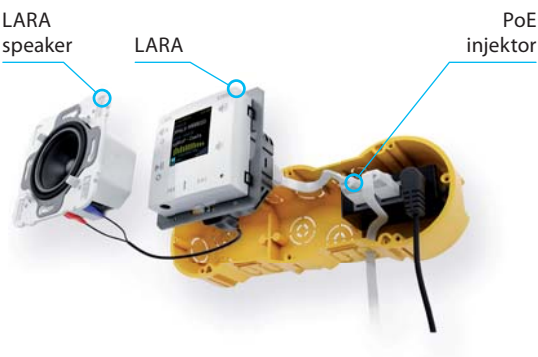## Power supply

Power supply PoE + Wi-Fi into a box

LARA speaker
LARA
Wi-Fi bridge
PSB-10-24 - power supply
KU - installation box
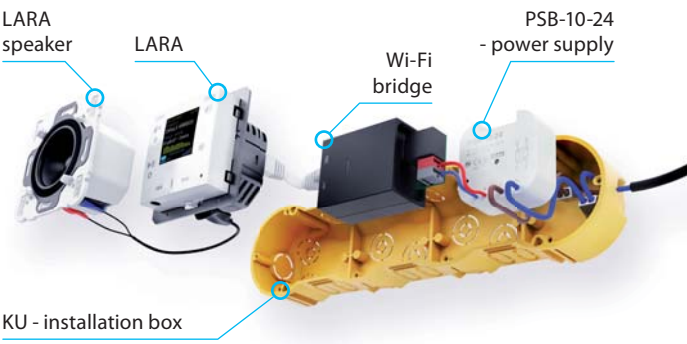
Wi-Fi bridge with PoE and power supply into an installation box.
Power supply 230V.
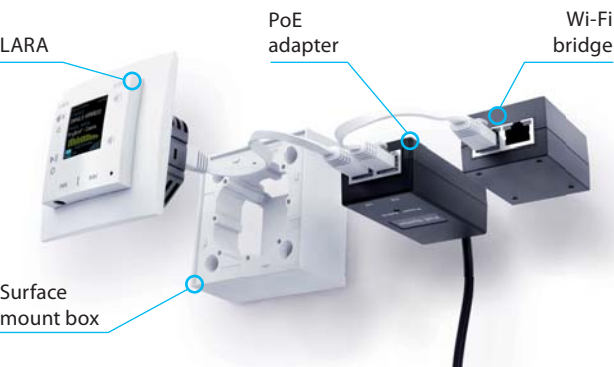order number: 5224

Power supply PoE into a box

LARA speaker
LARA
PoE injektor
PSB-10-24 - power supply
KU - installation box

PoE injector with power supply intended for an installation box.
Power supply 230 V.
order number: 6605

PoE supply

LARA speaker
LARA
PoE injektor

Power injector with plug-in 230V adapter.
order number: 5225

Power supply PoE + Wi-Fi

LARA
PoE adapter
Wi-Fi bridge
Surface mount box

Wi-Fi bridge with PoE plug in 230V adapter.
order number: 5227

Speakers

Flush mounted	On the wall	Into a suspended ceiling	

| dimensions (mm): Ø 52 power: 10 W impedance: 32 Ω more color available | dimensions (H x W x D): 274 x 185 x 37 mm power: 15 W impedance: 8 Ω, 16 Ω, 32 Ω color: white | dimensions (mm): Ø 180 power: 30 W impedance: 8 Ω, 16 Ω, 32 Ω color: white | dimensions (H x W x D): 220 x 220 x 93 mm power: 60 W impedance: 8 Ω, 16 Ω, 32 Ω color: white |

Door Speakers Compatible Door phone Videophones

Producer: 2N
Type: Verso

Accessories

AUX CABLE LARA (LARA CINCH CABLE)   5208

Used to connect LARA with exter. amplifier. Reduction 4pin from LARA LINE OUT to 2x CINCH plug into amplifi er, length 2x20 cm.

LARA SPEAKER CABLE   5209

Patch cable LARA - speaker.

AUX CABLE LARA (LARA AUDIO CABLE)   6704

Used to connect LARA with external music source (smartphone, mp3 player). Length 20cm terminated with 2x stereo jack 3.5mm.

PoE SWITCH   6605

Provides LAN connectivity and PoE power supply for up to 5 x LARA. Power supply AC 230 V.

LARA PoE POWER ADAPTER   6191

PoE power for one LARA.

WIFI BRIDGE   5210

Used for LARA wireless connection via WiFi network.

POWER SUPPLY (PSB-10-24)   4378

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.
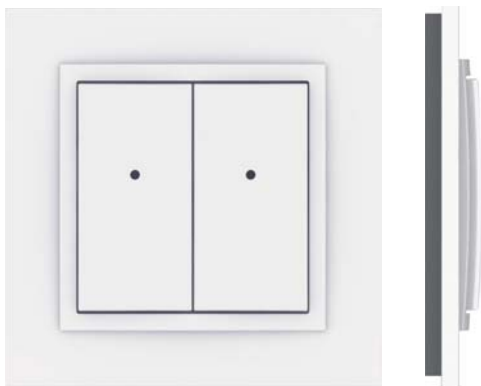

NAS EXTERNAL STORAGE   7212

Two-chamber NAS server with the function of hosting, sharing and data security.

- The wireless controller is used to control switches and dimmers (lights, gate, garage door, blinds, etc.).
- **RFWB-20/G:** two buttons enable control of two units independently.
- **RFWB-40/G:** four buttons enable control of four units independently.
- The flat design with level base makes it ideal for fast installation on any surface (fixation with adhesive or screws in the installation box).
- When pressing the button, it sends a set signal (ON/OFF, dimming, time switching OFF / ON, blinds up/down).
- Sending a command is indicated by a red LED.
- In LOGUS⁹⁰ switch frame design (plastic, glass, wood, metal, stone).
- Option of setting light scenes, where with a single press, you can control units of iNELS RF Control.
- Battery power supply (3 V / CR2032 - included in the supply) with battery life of around 5 years based on frequency of use.
- Range up to 200 m (in open space), if the signal is insufficient between the controller and unit, use the signal repeater RFRP-20 or protocol component RFIO² that support this feature.
- Communication frequency with bidirectional protocol iNELS RF Control.
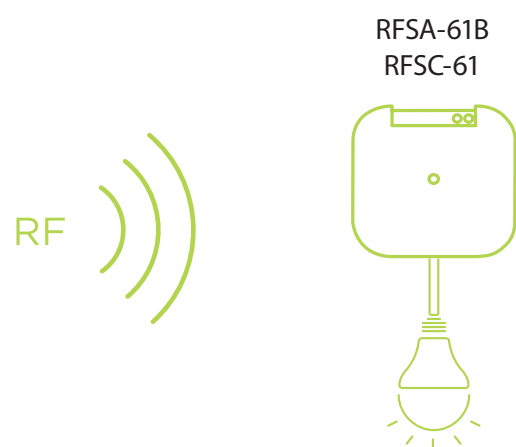
Device description

RFWB-20/G

Transmitter indication

Control buttons

RFWB-40/G

Transmitter indication

Control buttons
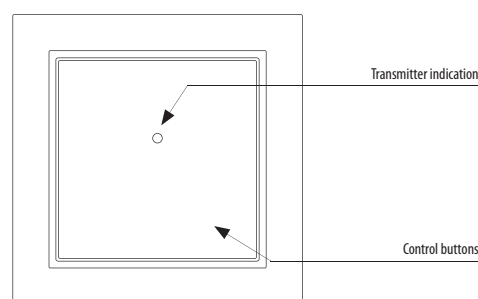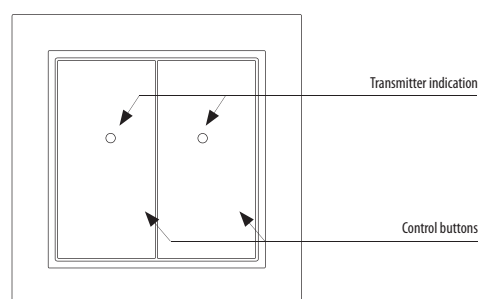
Examples of placement

RFSA-61B
RFSC-61

RF

LOGUS⁹⁰

We bring you switches, sockets and accessories in standard, plastic or metallic design, but you will be impressed most by enchanting luxury design of purely natural frames: real wood, metal, granite and tempered glass - crystal
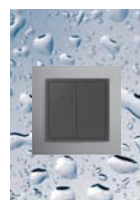
On wall	On wood	On glass

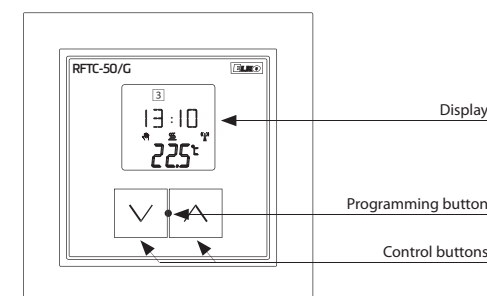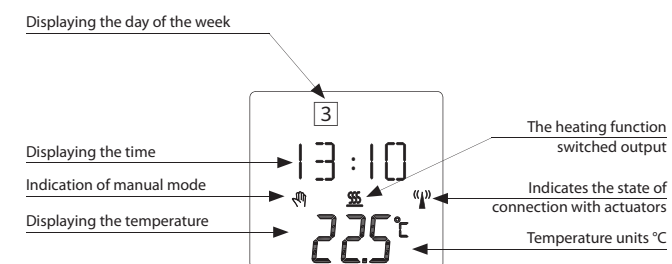| Plastic	Metallic plastic	Color plastic	Color plastic	Metal	Wood	Stone	Crystal

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Flat design - the depth of the device is only 20 mm!

- The wireless controller in design LOGUS⁹⁰ measures the room temperature by internal sensor, and based on the set temperature, it sends a command for heating / cooling.
- Option of setting a daily/weekly automatic control program.
- The temperature controller can be used in one of two ways:
  - For controlling an additional heat source (heater, oil radiator, radiant panel) with multi-function switchingunits RFSA-6x, RFUS-61 or RFSC-61.
  - For control of floor heating, when the internal sensor scans the room temperature, and based on the value, controls the heating unit RFSTI-11B, which monitors the critical floor value by external sensor.
- Manual control by buttons on the unit.
- Range of measured temperature 0-55 °C.
- The backlit LCD display displays the current and set temperature, status (ON/OFF), battery status, day of the week, current time, etc.
- Battery power (1.5 V / 2x AAA - included in supply) with battery life of around 1 year based on frequency of use.
- The flat rear side of the device enables its placement anywhere in the room where you wish to measure temperature.
- Range up to 100 m (in open space), if the signal is insufficient between the controller and unit, use the signal repeater RFRP-20 or protocol component RFIO² that support this feature.
- Communication frequency with bidirectional protocol iNELS RF Control.
- Color combination of temperature unit in design of frames LOGUS⁹⁰ (plastic, glass, wood, metal, stone).
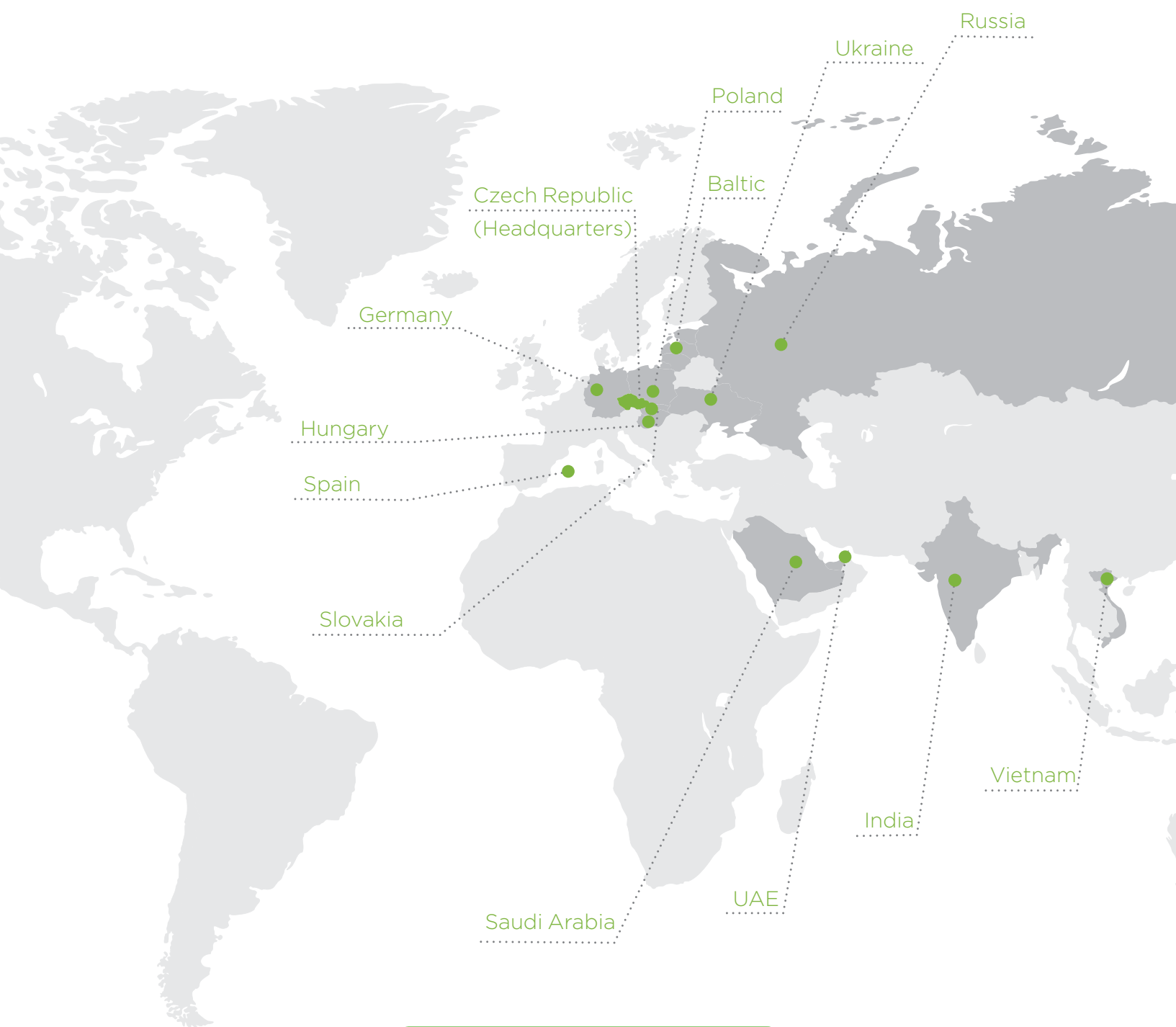
Device description

RFTC-50/G

Display

Programming button

Control buttons

Display description

Displaying the day of the week

Displaying the time

Indication of manual mode

Displaying the temperature

The heating function switched output

Indicates the state of connection with actuators

Temperature units °C

Example of connection

RFSA-61B
RFSC-61
RFSTI-11B

RF

Russia

Ukraine

Poland

Baltic

Czech Republic
(Headquarters)

Germany

Hungary

Spain

Slovakia

Vietnam

India

UAE

Saudi Arabia

ELKO EP, s.r.o.

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