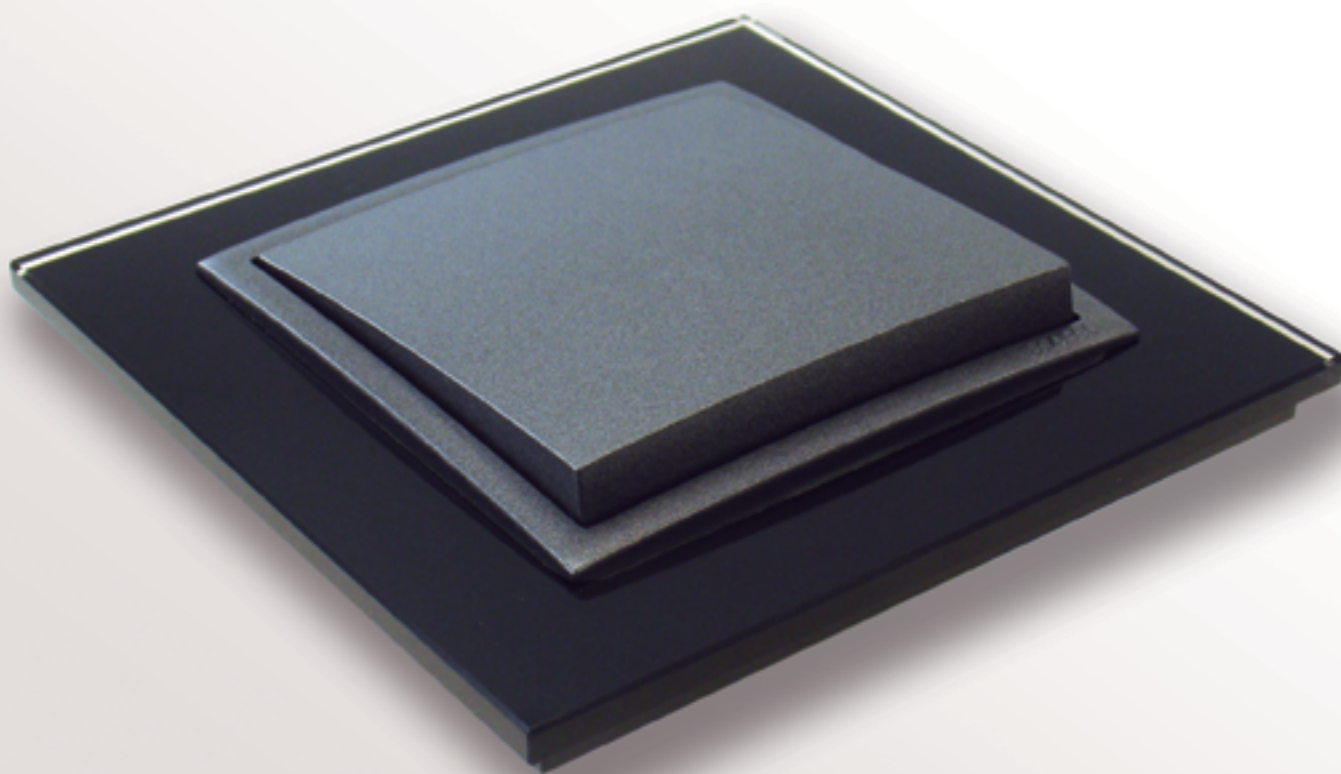


EFAPEL[®]

Empresa Fabril de Produtos Eléctricos, S.A.

ELECTRICAL SOLUTIONS

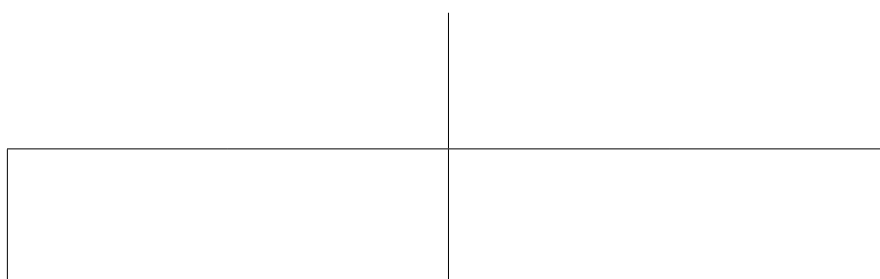
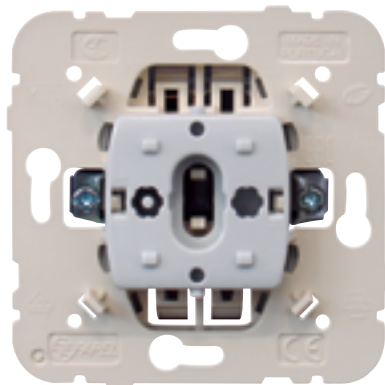
40
years



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SINGLE TYPE OF MECHANISM - **mec21**



THREE DISTINCT SERIES



LOGUS⁹⁰

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APOLO 5000

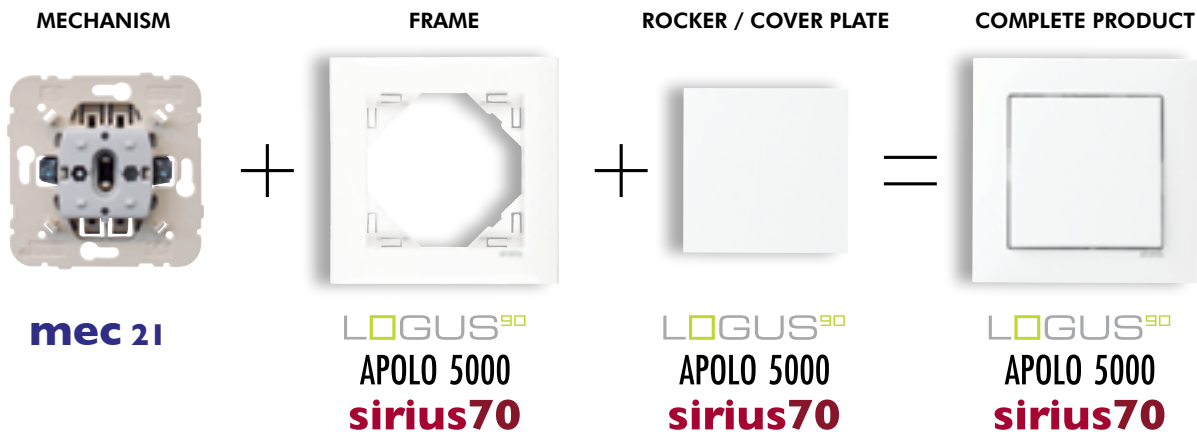
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sirius70

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■ MOUNTING - WITH THE mec21 SERIES MECHANISMS



To choose a product, you need to:

1) Select the Reference of:

- the **Mechanism** with the function you need;
- the **Frame** of the desired finishing;
- the **Rocker / Cover Plate** relating to the mechanism.

2) Choose the Finishing:

Add to the **Frame** and **Rocker / Cover Plate** references a two-letter suffix corresponding to the finishing you need.

Examples:

FUNCTIONS	SERIES	FINISHING	REF. MECHANISM	REF. FRAME	REF. ROCKER / COVER PLATE
Single Pole Switch	LOGUS ⁹⁰	BR - White	21011	90910 TBR	90601 TBR
Double Two-way Switch	APOLO 5000	PM - Black Matt	21101	50910 TPM	50611 TPM
Two Circuits Switch	sirius70	MF - Ivory	21061	70910 TMF	70611 TMF





The LOGUS 90 Series inspires the creation of modern and unique spaces.

The perfect combination of a wide range of colors and genuine materials such as Glass, Metal, Wood and Stone.

The small detail that will make the difference in your decoration.

All functions from mec21 Series.

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BASE



BR
White



MF
Ivory

AQUARELLA



GE
Ice



PE
Pearl



AL
Aluminium



IS
Gray



PM
Black Matt



DU
Golden

ANIMATO



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
Intense Orange/Gray



BS
Intense Red/Gray



AA
Aluminium/Aluminium



AS
Aluminium/Gray



SS
Gray/Gray



PG
Black Matt/Ice



PA
Black Matt/Aluminium



PS
Black Matt/Gray



RR
Black Matt/Black Matt



UG
Golden/Ice



UU
Golden/Golden

CRYSTAL



CG
Cristal/Ice



CP
Cristal/Pearl



CA
Cristal/Aluminium



CS
Cristal/Gray



EG
Black Cristal/Ice



EA
Black Cristal/Aluminium



ES
Black Cristal/Gray



EP
Black Cristal/Black Matt

METALLO



TP
Titanium/Pearl



IA
Inox/Aluminium



QP
Gold/Pearl



QS
Nickel/Gray



US
Aluminium/Gray



RS
Chrome/Gray



OU
Gold/Golden

ARBORE



FP
Beech Wood/Pearl



JP
Cherry Tree/Pearl



MS
Mahogany/Gray



NA
Walnut Tree/Aluminium

PETRA



GG
Granite/Ice



GP
Granite/Pearl



GA
Granite/Aluminium



GS
Granite/Gray

CONTROL DEVICES		Ref.
	Single Pole Switch 10AX - 250V~	21011
	Single Pole Switch with Orienting Light 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking. ■ Replacement LED - page 19.	21012
	Single Pole Switch with Pilot Lamp 10AX - 250V~ ■ Replacement LED - page 19.	21013
	Two-pole Switch 10AX - 250V~	21021
	Two-pole Switch with Pilot Lamp 10AX - 250V~ ■ Replacement LED - page 19.	21023
	Two-pole Switch with Pilot Lamp - 20A 20A - 250V~ ■ Screw terminals connection. ■ Replacement LED - page 19.	21024
	One Circuit Digital Time Switch  ■ Rated voltage: 230V~ - 50 - 60Hz. ■ Breaking capacity: 16A. ■ Output type: ON, OFF and PULSE.  See Technical Data Sheet - page 156.	21041
	Two Circuits Digital Time Switch  ■ Rated voltage: 230V~ - 50 - 60Hz. ■ Breaking capacity: 6A + 6A. ■ Output type: ON, OFF and PULSE.  See Technical Data Sheet - page 156.	21042
	Card-system Switch  10AX - 250V~ ■ Single Pole Switch with Orienting Light function. ■ Two-way Switch function (NO+NC). ■ For ATM card type (Ref. 21999). ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking. ■ Screw terminals connection. ■ Replacement LED - page 19.	21031
	Two Circuits Switch 10AX - 250V~	21061
	Two Circuits Switch - 20A 20A - 250V~ ■ Screw terminals connection.	21065
	Two Circuits Switch with Orienting Light  10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.	21062

ROCKERS / COVER PLATES			Ref.	Color
	Rocker for Switches		90601 T	BR MF GE PE AL IS PM DU
	Rocker for Lighted Switches		90602 T	BR MF GE PE AL IS PM DU
	Rocker for Lighted Switches / Push-button with Lamp Symbol		90797 T	BR MF GE PE AL IS PM DU
	Rocker for Switches		90601 T	BR MF GE PE AL IS PM DU
	Rocker for Two-pole Switch		90608 T	
	Rocker for Lighted Switches		90602 T	BR MF GE PE AL IS PM DU
	Rocker for Lighted Switches / Push-button with "HEIZUNG NOTSCHALTER" tamperography		90798 T	
	Rocker for Lighted Switches / Push-button with Lamp Symbol		90797 T	
	Cover Plate for One Circuit Digital Time Switch		90743 T	BR MF GE PE AL IS PM DU
	Cover Plate for Two Circuits Digital Time Switch		90744 T	BR MF GE PE AL IS PM DU
	Cover Plate for Card-system Switch		90731 T	BR MF GE PE AL IS PM DU
	Double Rockers		90611 T	BR MF GE PE AL IS PM DU
	Rockers for double-function mechanism with Orienting Light 		90615 T	BR MF GE PE AL IS PM DU

CONTROL DEVICES		Ref.
	Two Circuits Switch With Pilot Lamp 10AX - 250V~	21063
	Three Circuits Switch 16AX - 250V~ ■ Screw terminals connection.	21088
	Two-way Switch 10AX - 250V~	21071
	Two-way Switch with Orienting Light 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking. ■ Replacement LED - page 19.	21072
	Two-way Switch with Pilot Lamp 10AX - 250V~ ■ Replacement LED - page 19.	21073
	Two-way Switch - 20A 20A - 250V~ ■ Screw terminals connection.	21075
	Double Two-way Switch 10AX - 250V~	21101
	Double Two-way Switch - 20A 20A - 250V~ ■ Screw terminals connection.	21103
	Double Two-way Switch with Orienting Light 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.	21202
	Double Two-way Switch with Pilot Lamp 10AX - 250V~	21203
	Intermediate Switch 10AX - 250V~	21051
	Double Intermediate Switch 10AX - 250V~	21204

ROCKERS / COVER PLATES		Ref.	Color
	Rockers for double-function mechanism with Orienting Light	90615 T	BR MF GE PE AL IS PM DU
	Triple Rockers	90661 T	BR MF GE PE AL IS PM DU
	Rocker for Switches	90601 T	BR MF GE PE AL IS PM DU
	Rocker for switches with big/small fans symbols	90609 T	BR MF GE PE AL IS PM DU
	Rocker for Lighted Switches	90602 T	BR MF GE PE AL IS PM DU
	Rocker for Switches	90601 T	BR MF GE PE AL IS PM DU
	Rocker for switches with big/small fans symbols	90609 T	BR MF GE PE AL IS PM DU
	Double Rockers	90611 T	BR MF GE PE AL IS PM DU
	Double Rocker for Two-way Switch Fan	90616 T	BR MF GE PE AL IS PM DU
	Rocker for Double Function Mechanism with Orienting Light	90615 T	BR MF GE PE AL IS PM DU
	Rocker for Switches	90601 T	BR MF GE PE AL IS PM DU
	Rockers for double-function mechanism	90614 T	BR MF GE PE AL IS PM DU

CONTROL DEVICES		Ref.
	Intermediate Switch with Orienting Light 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking. ■ Replacement LED - page 19.	21052
	Double Intermediate Switch with Orienting Light 10AX - 250V~ NEW ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.	21205
	Rocker Push-button 10A - 250V~	21151
	Rocker Push-button (NO+NC) 10A - 250V~	21150
	Rocker Push-button with Orienting Light 250V~ 10A - 250V~ ■ Replacement LED - page 19.	21152
	Rocker Push-button with Orienting Light - 12V 6A - 12V ■ Replacement LED - page 19.	21162
	Rocker Push-button with Independent Pilot Lamp 10A - 250V~ ■ Replacement LED - page 19.	21153
	Rocker Push-button with Identification - 250V~ 10A - 250V~	21155
	Rocker Push-button with Identification - 12V 6A - 12V	21165
	Double Push-button 10A - 250V~	21156
	Double Push-button (2NO+2NC) 10A - 250V~	21154

ROCKERS / COVER PLATES			Ref.	Color
	Rocker for Lighted Switches		90602 T	BR MF GE PE AL IS PM DU
	Rockers for double-function mechanism with Orienting Light NEW		90615 T	BR MF GE PE AL IS PM DU
	Rocker for Switches		90601 T	
	Rocker for Switches with Lock Symbol		90604 T	
	Rocker for Switches with Bell Symbol		90605 T	BR MF GE PE AL IS PM DU
	Rocker for Switches with Maid Symbol		90606 T	
	Rocker for Switches with Lamp Symbol		90607 T	
	Rocker for Lighted Switches		90602 T	
	Rocker for Lighted Switches / Push-button with Lock Symbol		90794 T	
	Rocker for Lighted Switches / Push-button with Bell Symbol		90795 T	BR MF GE PE AL IS PM DU
	Rocker for Lighted Switches / Push-button with Maid Symbol		90796 T	
	Rocker for Lighted Switches / Push-button with Lamp Symbol		90797 T	
	Rocker for Switches with Identification Card		90603 T	BR MF GE PE AL IS PM DU
	Double Rockers		90611 T	BR MF GE PE AL IS PM DU

CONTROL DEVICES		Ref.
	Double Rocker Push-button with Orienting Light 250V~ 10A - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking. NEW	21206
	Double Rocker Push-button with Orienting Light 12V 6A - 12V NEW	21207
	Two-way Switch / Rocker Push-button 10AX - 250V~ NEW	21158
	Rocker Push-button / Two-way Switch 10AX - 250V~	21159
	Two-way Switch with Orienting Light / Rocker Push-button with Orienting Light 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking. NEW	21208
	Rocker Push-button with Orienting Light / Two-way Switch with Orienting Light 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking. NEW	21209
	Electronic Very Low Tension 4-Gang Push-button 12V~ - 50mA / 32V~ - 18mA ■ See Technical Data Sheet - page 157.	21164
	Rotary Switch - 16A 16AX - 250V~ ■ Screw terminals connection.	21302
	Rotary Two-way Switch - 16A 16AX - 250V~ ■ ON - OFF - ON. ■ Screw terminals connection.	21301
	3 Positions Rotary Switch 16(4)A - 250V~ ■ Screw terminals connection. NEW	21300
	4 Positions Rotary Switch 16(4)A - 250V~ ■ Screw terminals connection. NEW	21305
	Key Lock Two-way Switch 10AX - 250V~ ■ ON - OFF - ON. ■ It allows to remove the key in 3 positions. ■ Screw terminals connection.	21352
	Key Lock Push-button 10A - 250V~ ■ ON - OFF - ON. ■ Allows key removal in OFF position. ■ Screw terminals connection.	21351

ROCKERS / COVER PLATES			Ref.	Color
	Rockers for double-function mechanism with Orienting Light NEW		90615 T	BR MF GE PE AL IS PM DU
	Double Rockers		90611 T	BR MF GE PE AL IS PM DU
	Rockers for double-function mechanism with Orienting Light NEW		90615 T	BR MF GE PE AL IS PM DU
	Quadruple Rocker		90600 T	BR MF GE PE AL IS PM DU
	Cover Plate for Rotary Switch (ON/OFF)		90762 T	BR MF GE PE AL IS PM DU
	Cover Plate for Rotary Push-button / Two-way Switch		90761 T	BR MF GE PE AL IS PM DU
	Cover plate for Rotary Two-way switch (I, O, II) NEW		90760 T	BR MF GE PE AL IS PM DU
	Cover Plate for 3 Positions Rotary Switch NEW		90765 T	BR MF GE PE AL IS PM DU
	Cover Plate for 4 Positions Rotary Switch NEW		90766 T	BR MF GE PE AL IS PM DU
	Cover Plate for Key Lock Push-button / Two-way Switch		90351 T	BR MF GE PE AL IS PM DU

CONTROL DEVICES

	Ref.
 Pull-cord Two-way Switch 10AX - 250V~ ■ NO+NC. ■ Screw terminals connection.	21092
 Pull-cord Push-button 10A - 250V~ ■ NO. ■ Screw terminals connection.	21091
 Pull-cord Push-button (NO+NC) NEW 10A - 250V~ ■ NO+NC. ■ Screw terminals connection.	21090

ROCKERS / COVER PLATES

	Ref.	Color
 Cover Plate for Pull-cord Push-button / Two-way Switch ■ Cord with approximately 65 cm.	90741 T	BR MF GE PE AL IS PM DU

TEMPERATURE CONTROL

	Ref.
 Programmable Chronothermostat ECO ■ Rated voltage: 230V~ - 50Hz. ■ Breaking capacity: 16A. ■ Inverter contact (NO+NC), voltage free. ■ Range of temperature readings: -9°C to 35°C. ■ Optimized for electric floor heating. ■ Possibility of connecting the Floor Temperature Sensor (Ref. 81950), with automatic self-detection. See Technical Data Sheet - page 158.	21232
 Thermostat with Infrared Remote Control ECO ■ Rated voltage: 230V~ - 50Hz. ■ Breaking capacity: 16A. ■ Inverter contact (NO+NC), voltage free. ■ Range of temperature readings: -9°C to 35°C. ■ Optimized for electric floor heating. ■ Possibility to use the Infrared Remote Control/Multifunctions (Ref. 81900). ■ Possibility of connecting the Floor Temperature Sensor (Ref. 81950), with automatic self-detection. See Technical Data Sheet - page 158.	21233
 Floor Temperature Sensor for Programmable Chronothermostat and Thermostat with Infrared Remote Control ■ Length: 4m. ■ Range: -10° to 50°C. ■ IP67. ■ NTC 12K/25°C.	

ROCKERS / COVER PLATES

	Ref.	Color
 Cover Plate for Programmable Chronothermostat	90740 T	BR MF GE PE AL IS PM DU
 Cover Plate for Thermostat with Infrared Remote Control	90742 T	BR MF GE PE AL IS PM DU
	81950	—

MOTION DETECTORS

	Ref.
 Motion Detector - 1000W ECO ■ Wall mounting. ■ Rated voltage: 230V~ - 50Hz. ■ Sensibility regulation. ■ Range of detection: 8 meters. ■ Detection angle: 160°. ■ Inverter contact (NO+NC), voltage free. ■ Relay output, compatible with all types of electric loads. See Technical Data Sheet - page 159.	21401
 Motion Detector - 400W ECO ■ Wall mounting. ■ Rated voltage: 230V~ - 50Hz. ■ Sensibility regulation. ■ Range of detection: 8 meters. ■ Detection angle: 160°. ■ Inverter contact (NO+NC), voltage free. ■ Relay output, compatible with all types of electric loads. See Technical Data Sheet - page 159.	21402

ROCKERS / COVER PLATES

	Ref.	Color
 Cover Plate for Motion Detectors	90401 T	BR MF GE PE AL IS PM DU

ELECTRICAL BLINDS CONTROL	
	Ref.
 Venetian Switch 10A - 250V~ ■ Switch function. ■ Electrical and mechanical blockade against two occasional simultaneous orders. ■ Toggles automatically one rocker when the other is pressed.	21290
 Venetian Switch with Mechanical Blockage 10A - 250V~ ■ Switch function. ■ Electrical and mechanical blockade against two occasional simultaneous orders. ■ It is necessary to press "STOP" before changing the direction of movement.	21291
 General Blinds Control Module with Infrared Remote Control  ■ Rated voltage: 230V~ - 50Hz. ■ Breaking capacity: 500VA. ■ Possibility to use the Infrared Remote Control/Multifunctions (Ref. 81900). ■ 2 programmable functions (Up/Down). ■ Function: "Standby". See Technical Data Sheet - page 160.	21311
 Local Blinds Control Module with Infrared Remote Control  ■ Rated voltage: 230V~ - 50Hz. ■ Breaking capacity: 500VA. ■ Possibility to use the Infrared Remote Control/Multifunctions (Ref. 81900). See Technical Data Sheet - page 160.	21312
 Venetian Double Push-button 10A - 250V~ ■ Push-button function. ■ Electrical blockade against two occasional simultaneous orders.	21281
 Venetian Double Push-button for multiple points Blinds Control 10A - 250V~ ■ Push-button function. ■ Electrical blockade against two occasional simultaneous orders. ■ It allows to control a blind from several points. ■ To be used with Relay for Blinds Control (Ref. 81511).	21283
 Rotary Push-button 16A - 250V~ ■ ON - OFF - ON. ■ Screw terminals connection.	21303

DIMMERS	
	Ref.
 Dimmer for Fluorescent Lamps with Electronic Ballast EVG 1-10V  ■ I _{máx} - 40mA. ■ Silent. See Technical Data Sheet - page 164.	21210
 Ferromagnetic Dimmer/Two-way Switch 500VA R, L  ■ 20 - 500W/VA. See Technical Data Sheet - page 164.	21211
 Electronic Dimmer/Two-way Switch 320W R, C  ■ 5 - 320W. ■ Silent. See Technical Data Sheet - page 164.	21212
 Electronic Dimmer/Two-way Switch 550W R, C  ■ 20 - 550W/VA. ■ Silent. See Technical Data Sheet - page 164.	21213

ROCKERS / COVER PLATES		
	Ref.	Color
 Rockers for Venetian Switch	90613 T	BR MF GE PE AL IS PM DU
 Cover Plate for General Blinds Control Module with Infrared Remote Control	90311 T	BR MF GE PE AL IS PM DU
 Cover Plate for Local Blinds Control Module with Infrared Remote Control	90312 T	BR MF GE PE AL IS PM DU
 Rockers for Venetian Push-buttons	90612 T	BR MF GE PE AL IS PM DU
 Cover Plate for Rotary Push-button / Two-way Switch	90761 T	BR MF GE PE AL IS PM DU

TECLAS / CENTROS		
	Ref.	Color
 Cover Plate for Dimmer/Two-way Switch	90721 T	BR MF GE PE AL IS PM DU

DIMMERS	
	Ref.
 Ferromagnetic Dimmer/Two-way Switch for Energy Saving Lamps - 110VA R, L ■ 7 - 110W/VA. ■ 3 - 35W LED's. ■ Dimmable LEDs. See Technical Data Sheet - page 164.	21214
 Electronic Dimmer/Two-way Switch for Low Power Lamps - 150W R, C ■ 15 - 150W/VA. ■ 3 - 50W LED's. ■ Dimmable LEDs. ■ Silent. See Technical Data Sheet - page 164.	21215
 Ferromagnetic Dimmer/Two-way Switch for Energy Saving Lamps - 250W/VA R, L ■ 20 - 250W/VA. ■ 3 - 85W LED's. ■ Dimmable LEDs. See Technical Data Sheet - page 164.	21216
 Electronic Dimmer/Two-way Switch Energy Saving Lamps - 450W/VA R, C ■ 15 - 450W/VA. ■ 5 - 150W LED's. ■ Dimmable LEDs. ■ Silent. See Technical Data Sheet - page 164.	21217
 Speed Controller for Induction Motors - 600VA ■ 25 - 600VA. See Technical Data Sheet - page 164.	21219

DATA SOCKETS	
	Ref.
 RJ45 Cat. 6 UTP Socket (Equipped with connector) See Technical Data Sheet - page 219.	21455
 RJ45 Cat. 6 UTP Socket (Equipped with connector) See Technical Data Sheet - page 220.	21445
 RJ45 Cat. 5e UTP Socket (Equipped with connector) See Technical Data Sheet - page 219.	21453
 RJ45 Cat. 5e STP Socket (Equipped with connector) See Technical Data Sheet - page 220.	21443
 RJ45 Socket adapter (Equipped without connector)	21976

RJ45 CONNECTORS	
	Ref.
 RJ45 Cat. 6 UTP Connector (250 MHz) See Technical Data Sheet - page 219.	21978
 RJ45 Cat. 6 UTP - Connector for Rack assembly (250 MHz) See Technical Data Sheet - page 220.	82020
 RJ45 Cat. 5e UTP Connector (100 MHz) See Technical Data Sheet - page 219.	21975

ROCKERS / COVER PLATES		
	Ref.	Color
 Cover Plate for Dimmer/Two-way Switch	90721 T	BR MF GE PE AL IS PM DU

ROCKERS / COVER PLATES		
	Ref.	Color
 Cover Plate for Single RJ45 Computer Sockets	90751 T	BR MF GE PE AL IS PM DU

ROCKERS / COVER PLATES		
	Ref.	Color
 Cover Ring with Single support for RJ45 Connectors	90441 S	BR MF GE PE AL IS PM DU
 Cover Ring with Double Support for RJ45 Connectors	90442 S	

RJ45 CONNECTORES	
	Ref.
 RJ45 Cat. 6 STP Connector (250 MHz) See Technical Data Sheet - page 220.	21988
 RJ45 Cat. 5e STP Connector (100 MHz) See Technical Data Sheet - page 220.	21985

COUPLERS FOR FIBRE OPTIC CONNECTORS	
	Ref.
 Coupler for SC APC Duplex Fibre Optic Connector See Technical Data Sheet - page 221.	82211
 Coupler for SC APC Simplex Fibre Optic Connector See Technical Data Sheet - page 221.	82210
 Coupler for LC Duplex Fibre Optic Connector See Technical Data Sheet - page 221.	82213

 Protective Cover for Coupler for SC APC Simplex Fibre Optic Connector	82970	—
 Protective Cover for Coupler for SC APC Duplex Fibre Optic Connector	82971	—

TELEPHONE SOCKETS		
	Ref.	Color
50V --- 70V~  Telephone Socket (4 conductors)	21252 S	BR MF CZ AT PT
 Telephone Socket with Gel (4 conductors)	21255 S	BR MF CZ AT PT

* - For the Cover Plates of the Telephone Sockets of the AQUARELLA finishing, please use the mechanism in the following colors: - GE (Ice) - BR (White);
 - PE (Pearl) - MF (Ivory);
 - AL (Aluminium) - CZ (Grey);
 - IS (Gray) - AT (Anthracite);
 - PM (Black) - PT (Black Matt) ;
 - DU (Gold) - MF (Ivory)

8 contacts  T8 French Telephone Socket	21411	—
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RADIO, TELEVISION AND SATELLITE SOCKETS	
	Ref.
STAR CONNECTION  R - TV - SAT Socket Star Connection ■ 4 - 862 MHz: < 2dB. ■ 950 - 2400 MHz: < 3dB. ■ Current flow 500 mA (DC). See Technical Data Sheet - page 170.	21543
 R - TV Socket Star Connection ■ 4 - 82 MHz: < 1dB. ■ 84 - 108 MHz: < 2dB. ■ 112 - 1000 MHz: < 1dB. See Technical Data Sheet - page 170.	21533

EFAPEL® ■ S - Semi-assembled; T - Rocker, Cover Plate or Frame.
 ■ BR - White; MF - Ivory; GE - Ice; PE - Pearl; AL - Aluminium; IS - Gray; PM - Black Matt; DU - Golden; CZ - Grey; AT - Anthracite; PT - Black.

ROCKERS / COVER PLATES		
	Ref.	Color
 Cover Ring with Single support for RJ45 Connectors	90441 S	BR MF GE PE AL IS PM DU
 Cover Ring with Double Support for RJ45 Connectors	90442 S	

ROCKERS / COVER PLATES		
	Ref.	Color
 Cover Plate for Coupler for SC APC Duplex Fibre Optic Connector	90448 S	BR MF GE PE AL IS PM DU
 Cover Plate for Coupler for SC APC Simplex / LC Duplex Fibre Optic Connector	90449 S	BR MF GE PE AL IS PM DU
Protective Cover for Coupler for SC APC Simplex Fibre Optic Connector	82970	—
Protective Cover for Coupler for SC APC Duplex Fibre Optic Connector	82971	—

ROCKERS / COVER PLATES		
	Ref.	Color
 Cover Plate for Telephone Socket	90712 T *	BR MF GE PE AL IS PM DU

 Cover Plate for T8 French Telephone Socket	90718 T	BR MF GE PE AL IS PM DU
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ROCKERS / COVER PLATES		
	Ref.	Color
 Cover Plate for R - TV - SAT Sockets	90775 T	BR MF GE PE AL IS PM DU
 Cover Plate for R - TV Sockets	90776 T	

RADIO, TELEVISION AND SATELLITE SOCKETS

	Ref.
SERIAL CONNECTION	
R - TV - SAT Socket (Terminal) ■ 4 - 446 MHz: < 6dB. ■ 470 - 862 MHz: < 9dB. ■ 950 - 2400 MHz: < 6dB. ■ Current flow 500 mA (DC). See Technical Data Sheet - page 170.	21555
R - TV - SAT Socket (Passage) ■ 4 - 862 MHz: < 10dB. ■ 950 - 2150 MHz: < 11dB. ■ 2150 - 2400 MHz: < 9dB. ■ Current flow 500 mA (DC). ■ Insertion losses: 3dB. See Technical Data Sheet - page 170.	21565
R - TV Socket (Terminal) ■ 4 - 82 MHz: < 6dB. ■ 84 - 108 MHz: < 8dB. ■ 112 - 1000 MHz: < 7dB. See Technical Data Sheet - page 170.	21554
R - TV Socket (Passage) ■ 4 - 1000 MHz: < 9dB. ■ Insertion losses: 2dB. See Technical Data Sheet - page 170.	21564

MULTIMEDIA SOCKETS

	Ref.
STAR CONNECTION	
R - TV - SAT - RJ45 Cat. 6 UTP - FO SC-APC Multimedia Socket for Star Connection ■ 4 - 862 MHz: < 2dB. ■ 950 - 2400 MHz: < 3dB. ■ Current flow 500 mA (DC). See Technical Data Sheet - page 170.	21545
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 - page 109. ■ 4 - 862 MHz: < 2dB. ■ 950 - 2400 MHz: < 3dB. ■ Current flow 500 mA (DC). See Technical Data Sheet - page 170.	21544
R - TV - SAT - 2xRJ45 Cat. 6 UTP Multimedia Socket for Star Connection ■ 4 - 862 MHz: < 2dB. ■ 950 - 2400 MHz: < 3dB. ■ Current flow 500 mA (DC). See Technical Data Sheet - page 170.	21546
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. See Technical Data Sheet - page 170.	21535
R - TV - RJ45 Cat. 6 UTP Multimedia Socket for Star Connection ■ To be used with a SC APC Simplex or LC Duplex Fibre Optic Connector - page 109. ■ 4 - 82 MHz: < 1dB. ■ 84 - 108 MHz: < 2dB. ■ 112 - 1000 MHz: < 1dB. See Technical Data Sheet - page 170.	21534

ROCKERS / COVER PLATES

	Ref.	Color
Cover Plate for R - TV - SAT Sockets	90775 T	BR MF GE PE AL IS PM DU
Cover Plate for R - TV Sockets	90776 T	BR MF GE PE AL IS PM DU

ROCKERS / COVER PLATES

	Ref.	Color
Cover Plate for R - TV - SAT - RJ45 / R - TV - SAT - RJ45 - FO Multimedia Sockets	90770 T	BR MF GE PE AL IS PM DU
Cover Plate for R - TV - SAT - 2xRJ45 Multimedia Socket	90773 T	BR MF GE PE AL IS PM DU
Cover Plate for R - TV - RJ45 / R - TV - RJ45 - FO Multimedia Sockets	90774 T	BR MF GE PE AL IS PM DU

ENERGY SOCKETS		Ref.
	Earth Socket (Schuko Type) with Screwless Terminals 16A - 250V~	21130
	Earth Socket (Schuko Type) 16A - 250V~	21131
	Single Phase Socket 16A - 250V~	21121
	Earth Socket (French Type) with Screwless Terminals 16A - 250V~	21110
	Earth Socket (French Type) 16A - 250V~	21111
	Double Earth Socket (French Type) 16A - 250V~	21470
	Earth Socket (Euro-USA Type) 15A - 127V~ / 16A - 250V~	21140
	Earth Socket (USA NEMA Type) 15A - 127V~ ■ SASO 2204 ■ NEMA 5-15	21143
	Safety Earth Socket (British Type) 13A - 250V~	21185
	Double USB Charger Type A with Output at 20° ■ Voltage: 100-240 V~. ■ Frequency: 50-60 Hz. ■ Output voltage: 5V~. ■ Output current: 2.4A. ■ Two USB type A outlets. FEB. 2019 See Technical Data Sheet - page 167.	21384

ROCKERS / COVER PLATES		Ref.	Color
	Safety Cover Plate for Earth Socket (Schuko Type)	90632 T	BR MF LR VD VM GE PE AL IS PM DU
	Cover Plate for Earth Socket (Schuko Type)	90631 T	BR MF VM VD GE PE AL IS PM DU
	Cover Plate for Schuko Socket with Safety and Hinged Lid (IP44)	90634 T	BR MF VM VD GE PE AL IS PM DU
	Monoblock Cover for Safety Earth Socket (Schuko Type)	90903 T	BR MF GE PE AL IS PM DU
	Monoblock Cover for Earth Socket (Schuko Type)	90902 T	BR MF GE PE AL IS PM DU
	Safety Cover Plate for Single Phase Socket	90622 T	BR MF GE PE AL IS PM DU
	Cover Plate for Single Phase Socket	90621 T	
	Safety Cover Plate for Earth Socket (French Type)	90652 T	BR MF LR VD VM GE PE AL IS PM DU
	Cover Plate for French Socket with Safety and Hinged Lid (IP44)	90654 T	BR MF VM VD GE PE AL IS PM DU
	Monoblock Cover for Safety Earth Socket (French Type)	90904 T	BR MF GE PE AL IS PM DU
	Safety Cover Plate for Double Earth Socket (French Type)	90656 T	BR MF GE PE AL IS PM DU
	Safety Cover Plate for Earth Socket (Euro-USA Type)	90842 T	BR MF LR VD VM GE PE AL IS PM DU
	Cover Plate for Earth Socket (Euro-USA Type)	90841 T	
	Safety Cover Plate for Earth Socket (USA NEMA Type)	90843 T	BR MF LR VD VM GE PE AL IS PM DU
	Cover Plate for Safety Earth Socket (British Type)	90642 T	BR MF GE PE AL IS PM DU
	Cover Plate for Double USB Charger Type A with outlets at 20° FEB. 2019	90673 T	BR MF GE PE AL IS PM DU



ENERGY SOCKETS (SEMI-ASSEMBLED)

		Ref.	Color
	Safety Earth Socket (Schuko) with Screwless Terminals 16A - 250V~	90133 W	BR MF LR VD VM GE PE AL IS PM DU
	Earth Socket (Schuko Type) with Screwless Terminals 16A - 250V~	90130 W	
	Schuko Socket with Screwless Terminals Safety and Hinged Lid 16A - 250V~	90496 W	BR MF GE PE AL IS PM DU

IP44

OTHER MECHANISMS

	Ref.
 Cable Outlet - Three Terminals ■ 3x2,5mm ² - 250V~.	21173
 Cable Outlet - Four Terminals ■ 4x2,5mm ² - 250V~.	21174
 Pilot Light ■ Max. 5W (E14) 250V~. ■ To be used with Lamp (Ref. 81012) - page 138. ■ To be used with Lamp (Ref. 81013) - page 138.	21360
 Loudspeaker Screw Terminal Socket	21220
 Support for Blind Cover Plate	21222
 Buzzer 230V~ - 50Hz ■ D type. ■ 5/15 sec..	21990

ROCKERS / COVER PLATES

	Ref.	Color
 Cover Plate for Cable Outlets	90671 T	BR MF GE PE AL IS PM DU
 Cover for Pilot Light	90781 T	IC LR VD VM
 Cover Plate for Screw Terminal Loudspeaker Socket	90713 T	BR MF GE PE AL IS PM DU
 Blind Cover Plate	90677 T	BR MF GE PE AL IS PM DU
 Cover Plate for Loudspeaker of 2" - 32 Ohm / Buzzer	90710 T	BR MF GE PE AL IS PM DU

ACCESSORIES

	Ref.	Color
 IP44 Kit for MEC 21 Mechanisms - Single Rocker IP44	21981	—
 IP44 Kit for MEC 21 Mechanisms - Double Rockers IP44	21982	—
 Cover for Mechanisms Protection	21971	—
 Level and Mounting Accessory for MEC 21 Mechanism	21989	—
 Card for Card-system Switch	21999	—

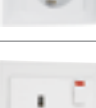
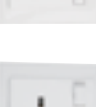
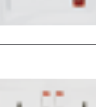
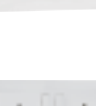
■ W - Semi-assembled packed in film; T - Rocker, Cover Plate or Frame.

■ BR - White; MF - Ivory; GE - Ice; PE - Pearl; AL - Aluminium; IS - Gray; PM - Black Matt; DU - Golden; IC - Colorless; LR - Orange; VD - Green; VM - Red.

ACCESSORIES

		Ref.	Color
	Cover Plate for R - TV Socket Multibrand 2 Outputs ■ 30mm between hole centres. See Technical Data Sheet - page 151.	90685 T	BR MF GE PE AL IS PM DU
	Cover Plate for R TV - SAT Socket Multibrand 2 Outputs ■ 30mm between hole centres. See Technical Data Sheet - page 151.	90686 T	BR MF GE PE AL IS PM DU
	Cover Plate for R - TV - SAT Socket Multibrand 3 Outputs ■ 30mm between R-TV hole centres. See Technical Data Sheet - page 151.	90680 T	BR MF GE PE AL IS PM DU
	TAE/TDO Cover for 1 to 3 Outputs	90714 T	BR MF GE PE AL IS PM DU
	UAE Cover for 1 or 2 Outputs	90716 T	BR MF GE PE AL IS PM DU
	Universal Cover Ring / Adapter for 45x45 Modules	90881 T	BR MF VM GE PE AL IS PM DU
	Flush Mounting Box ■ To be used in installations with trunkings with L75 Covers.	10984 A	BR
	Semi-Flush Mounting Box ■ To be used in installations with trunkings with L75 Covers.	10985 A	BR
	LOGUS 90 Series QUADRO 45 Series Surface Mounting Box	10976 A	BR MF GE PE AL IS PM DU
	LOGUS 90 Series Surface Double Mounting Box NEW	10994 A	BR MF GE PE AL IS PM DU
	LOGUS 90 Series Surface Triple Mounting Box NEW	10995 A	BR MF GE PE AL IS PM DU
	Replacement LED for MEC 21 / 48 Series - 250V~	81019	—
	Replacement LED for MEC 21 / 48 Series - 12V	81018	—
	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 162.	81512	—
	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 centralized command of the installation, connect remotely to a Venetian Double Push-button (Ref. 21283 / 45283 S). See Technical Data Sheet - page 162.	81511	—
	Infrared Remote Control Transmitter Multifunctions ■ To control the Thermostat with Infrared Remote Control. ■ To control Blinds Control Modules with Infrared Remote Control. ■ To control the Surrounding Sound System. ■ Works with CR 2032 batteries, not included.	81900	—

COMPLETE DEVICES

		Ref.	Color
	Venetian Switch 10A - 250V~ ■ Switch function. ■ Electrical and mechanical blockade against two occasional simultaneous orders. ■ Toggles automatically one rocker when the other is pressed.	NEW	90290 C BR
	Venetian Double Push-button 10A - 250V~ ■ Push-button function. ■ Electrical blockade against two occasional simultaneous orders.	NEW	90281 C BR
	Ferromagnetic Dimmer/Two-way Switch - 500VA R, L ■ 20-500W/VA.	eco	90211 C
	Electronic Dimmer/Two-way Switch - 320W R, C ■ 5-320W/VA. ■ Silent.	eco	90212 C
	Monoblock Safety Earth Socket (Schuko Type) with Screwless Terminals 16A - 250V~		90139 C
	Monoblock Safety Earth Socket (Schuko Type) 16A - 250V~		90138 C
	Monoblock Earth Socket (Schuko Type) 16A - 250V~		90135 C
	Monoblock Double Safety Earth Socket (Schuko Type) 16A - 250V~		90332 C
	Monoblock Double Earth Socket (Schuko Type) 16A - 250V~		90331 C
	Earth Socket (British Type) 13A - 250V~		90184 C
	Earth Socket (British Type) with Switch and Pilot Lamp 13A - 250V~		90183 C
	Double Earth Socket (British Type) 13A - 250V~		90344 C
	Double Earth Socket (British Type) with Switch and Pilot Lamp 13A - 250V~		90343 C

FRAMES

Due to the **Square symmetry** of **LOGUS 90 Series**, all frames allow horizontal and vertical assembly.

		Single Frame 90910 T	Double Frame 90920 T	Triple Frame 90930 T	Four-Gang Frame 90940 T	Five-Gang Frame 90950 T	Waterproof Frame 90961 T IP44
		Color	Color	Color	Color	Color	Color
BASE		BR MF	BR MF	BR MF	BR MF	BR MF	BR MF
AQUARELLA		GE PE AL IS PM DU	GE PE AL IS PM DU	GE PE AL IS PM DU	GE PE AL IS PM DU	GE PE AL IS PM DU	GE PE AL IS PM DU
ANIMATO		BB MM EE PP RG DG ZG JG VG TS BS AA AS SS PG PA PS RR UG UU	BB MM EE PP RG DG ZG JG VG TS BS AA AS SS PG PA PS RR UG UU	BB MM EE PP RG DG ZG JG VG TS BS AA AS SS PG PA PS RR UG UU	BB MM EE PP RG DG ZG JG VG TS BS AA AS SS PG PA PS RR UG UU		
CRYSTAL		CG CP CA CS EG EA ES EP	CG CP CA CS EG EA ES EP	CG CP CA CS EG EA ES EP	CG CP CA CS EG EA ES EP		
METALLO		TP IA OP QS US RS OU	TP IA OP QS US RS OU	TP IA OP QS US RS OU	TP IA OP QS US RS OU		
ARBORE		FP JP MS NA	FP JP MS NA	FP JP MS NA	FP JP MS NA		
PETRA		GG GP GA GS	GG GP GA GS	GG GP GA GS	GG GP GA GS		

The finishings **ANIMATO**, **CRYSTAL**, **METALLO**, **ARBORE** and **PETRA**, use the **rockers** and **cover plates** of **AQUARELLA** (Ice, Pearl, Aluminium, Gray, Black Matt or Gold) and **BASE** (White and Ivory).

- **T** - Rocker, Cover Plate or Frame.
- **BASE**: **BR** - White; **MF** - Ivory.
- **AQUARELLA**: **GE** - Ice; **PE** - Pearl; **AL** - Aluminium; **IS** - Gray; **PM** - Black Matt; **DU** - Golden.
- **ANIMATO**: **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** - Intense Orange/Gray; **BS** - Intense Red/Gray; **AA** - Aluminium/Aluminium; **AS** - Aluminium/Gray; **SS** - Gray/Gray; **PG** - Black Matt/Ice; **PA** - Black Matt/Aluminium; **PS** - Black Matt/Gray; **RR** - Black Matt/Black Matt; **UG** - Golden/Ice; **UU** - Golden/Golden.
- **CRYSTAL**: **CG** - Cristal/Ice; **CP** - Cristal/Pearl; **CA** - Cristal/Aluminium; **CS** - Cristal/Gray; **EG** - Black Cristal/Ice; **EA** - Black Cristal/Aluminium; **ES** - Black Cristal/Gray; **EP** - Black Cristal/Black Matt.
- **METALLO**: **TP** - Titanium/Pearl; **IA** - Inox/Aluminium; **OP** - Gold/Pearl; **QS** - Nickel/Gray; **US** - Aluminium/Gray; **RS** - Chrome/Gray; **OU** - Gold/Golden.
- **ARBORE**: **FP** - Beech Wood/Pearl; **JP** - Cherry Tree/Pearl; **MS** - Mahogany/Gray; **NA** - Walnut Tree/Aluminium.
- **PETRA**: **GG** - Granite/Ice; **GP** - Granite/Pearl; **GA** - Granite/Aluminium; **GS** - Granite/Gray.





The APOLO 5000 Series presents a simple and clean shape.

Its discreet presence adds a minimalist touch and distinction to your decoration.

All functions from mec21 Series.

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STANDARD



BR
White



MF
Ivory



PT
Black

MATTE



BM
White Matt



PM
Black Matt

METALIZADA



GR
Graphite



PR
Silver



PL
Platinum



CH
Champagne

CONTROL DEVICES		Ref.
	Single Pole Switch 10AX - 250V~	21011
	Single Pole Switch with Orienting Light 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking. ■ Replacement LED - page 36.	21012
	Single Pole Switch with Pilot Lamp 10AX - 250V~ ■ Replacement LED - page 36.	21013
	Two-pole Switch 10AX - 250V~	21021
	Two-pole Switch with Pilot Lamp 10AX - 250V~ ■ Replacement LED - page 36.	21023
	Two-pole Switch with Pilot Lamp - 20A 20A - 250V~ ■ Screw terminals connection. ■ Replacement LED - page 36.	21024
	One Circuit Digital Time Switch ■ Rated voltage: 230V~ - 50-60Hz. ■ Breaking capacity: 16A. ■ Output type: ON, OFF and PULSE. ■ See Technical Data Sheet - page 156.	21041
	Two Circuits Digital Time Switch ■ Rated voltage: 230V~ - 50-60Hz. ■ Breaking capacity: 6A + 6A. ■ Output type: ON, OFF and PULSE. ■ See Technical Data Sheet - page 156.	21042
	Card-system Switch 10AX - 250V~ ■ Single Pole Switch with Orienting Light function. ■ Two-way Switch function (NO+NC). ■ For ATM card type (Ref. 21999). ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking. ■ Screw terminals connection. ■ Replacement LED - page 36.	21031
	Two Circuits Switch 10AX - 250V~	21061
	Two Circuits Switch - 20A 20A - 250V~ ■ Screw terminals connection.	21065
	Two Circuits Switch With Orienting Light NEW 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.	21062

ROCKERS / COVER PLATES		Ref.	Color
	Rocker for Switches	50601 T	BR MF PT BM PM PR GR PL CH
	Rocker for Lighted Switches	50602 T	BR MF PT BM PM PR GR PL CH
	Rocker for Lighted Switches / Push-button with Lamp Symbol	50797 T	BR MF PT BM PM PR GR PL CH
	Rocker for Switches	50601 T	BR MF PT BM PM PR GR PL CH
	Rocker for Two-pole Switch	50608 T	
	Rocker for Lighted Switches	50602 T	
	Rocker for Lighted Switches / Push-button "HEIZUNG NOTSCHALTER"	50798 T	BR MF PT BM PM PR GR PL CH
	Rocker for Lighted Switches / Push-button with Lamp Symbol	50797 T	
	Cover Plate for One Circuit Digital Time Switch	50743 T	BR MF PT BM PM PR GR PL CH
	Cover Plate for Two Circuits Digital Time Switch	50744 T	BR MF PT BM PM PR GR PL CH
	Cover Plate for Card-system Switch	50731 T	BR MF PT BM PM PR GR PL CH
	Double Rockers	50611 T	BR MF PT BM PM PR GR PL CH
	Rocker for Double Function Mec with Orienting Light NEW	50615 T	BR MF PT BM PM PR GR PL CH

CONTROL DEVICES			Ref.
	Two Circuits Switch With Pilot Lamp 10AX - 250V~ NEW		21063
	Three Circuits Switch 16AX - 250V~ ■ Screw terminals connection.		21088
	Two-way Switch 10AX - 250V~		21071
	Two-way Switch with Orienting Light 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking. ■ Replacement LED - page 36.		21072
	Two-way Switch with Pilot Lamp 10AX - 250V~ ■ Replacement LED - page 36.		21073
	Two-way Switch - 20A 20A - 250V~ ■ Screw terminals connection.		21075
	Double Two-way Switch 10AX - 250V~		21101
	Double Two-way Switch - 20A 20A - 250V~ ■ Screw terminals connection.		21103
	Double Two-Way Switch with Orienting Light 10AX - 250V~ NEW ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.		21202
	Double Two-way Switch with Pilot Lamp 10AX - 250V~ NEW		21203
	Intermediate Switch 10AX - 250V~		21051
	Double Intermediante Switch 10AX - 250V~ NEW		21204

ROCKERS / COVER PLATES			Ref.	Color
	Rocker for Double Function Mec with Orienting Light NEW		50615 T	BR MF PT BM PM PR GR PL CH
	Triple Rockers		50661 T	BR MF PT BM PM PR GR PL CH
	Rocker for Switches		50601 T	BR MF PT BM PM PR GR PL CH
	Rocker for switches with big/small fans symbols NEW		50609 T	
	Rocker for Lighted Switches		50602 T	BR MF PT BM PM PR GR PL CH
	Rocker for Switches		50601 T	BR MF PT BM PM PR GR PL CH
	Rocker for switches with big/small fansymbols NEW		50609 T	
	Double Rockers		50611 T	BR MF PT BM PM PR GR PL CH
	Double Rockers for Two-way Switch Fan NEW		50616 T	
	Rocker for Double Function MEC with Orienting Light NEW		50615 T	BR MF PT BM PM PR GR PL CH
	Rocker for Switches		50601 T	BR MF PT BM PM PR GR PL CH
	Rocker for Double Function Mechanism NEW		50614 T	BR MF PT BM PM PR GR PL CH

CONTROL DEVICES		Ref.
	Intermediate Switch with Orienting Light 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking. ■ Replacement LED - page 36.	21052
	Double Intermediate Switch Orienting Light 10AX - 250V~ NEW ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.	21205
	Rocker Push-button 10A - 250V~	21151
	Rocker Push-button (NO+NC) 10A - 250V~	21150
	Rocker Push-button with Orienting Light - 250V~ 10A - 250V~ ■ Replacement LED - page 36.	21152
	Rocker Push-button with Orienting Light - 12V 6A - 12V ■ Replacement LED - page 36.	21162
	Rocker Push-button with Independent Pilot Lamp 10A - 250V~ ■ Replacement LED - page 36.	21153
	Rocker Push-button with Identification - 250V~ 10A - 250V~	21155
	Rocker Push-button with Identification - 12V 6A - 12V	21165
	Double Push-button 10A - 250V~	21156
	Double Push-button (2NO+2NC) 10A - 250V~	21154

ROCKERS / COVER PLATES		Ref.	Color
	Rocker for Lighted Switches	50602 T	BR MF PT BM PM PR GR PL CH
	Rocker for Double Function Mec with Orienting Light NEW	50615 T	BR MF PT BM PM PR GR PL CH
	Rocker for Switches	50601 T	
	Rocker for Switches with Lock Symbol	50604 T	
	Rocker for Switches with Bell Symbol	50605 T	BR MF PT BM PM PR GR PL CH
	Rocker for Switches with Maid Symbol	50606 T	
	Rocker for Switches with Lamp Symbol	50607 T	
	Rocker for Lighted Switches	50602 T	
	Rocker for Lighted Switches / Push-button with Lock Symbol	50794 T	
	Rocker for Lighted Switches / Push-button with Bell Symbol	50795 T	BR MF PT BM PM PR GR PL CH
	Rocker for Lighted Switches / Push-button with Maid Symbol	50796 T	
	Rocker for Lighted Switches / Push-button with Lamp Symbol	50797 T	
	Rocker for Switches with Identification Card	50603 T	BR MF PT BM PM PR GR PL CH
	Double Rockers	50611 T	BR MF PT BM PM PR GR PL CH

CONTROL DEVICES		Ref.
	Double Rocker Push-button with Orienting Light 250V~ 10A - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.	21206
	Double Rocker Push-button with Orienting Light 12V 6A - 12V	21207
	Two-way Switch / Rocker Push-button 10AX - 250V~	21158
	Rocker Push-button / Two-way Switch 10AX - 250V~	21159
	Two-way Switch with Orienting Light / Rocker Push-button with Orienting Light 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.	21208
	Rocker Push-button with Orienting Light / Two-way Switch with Orienting Light 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.	21209
	Electronic Very Low Tension 4-Gang Push-button 12V~ - 50mA / 32V~ - 18mA ■ See Technical Data Sheet - page 157.	21164
	Rotary Switch - 16A 16AX - 250V~ ■ Screw terminals connection.	21302
	Rotary Two-way Switch - 16A 16AX - 250V~ ■ ON - OFF - ON. ■ Screw terminals connection.	21301
	3 Positions Rotary Switch White 16(4)A - 250V~ ■ Screw terminals connection.	21300
	4 Positions Rotary Switch White 16(4)A - 250V~ ■ Screw terminals connection.	21305
	Key Lock Two-way Switch 10AX - 250V~ ■ ON - OFF - ON. ■ It allows to remove the key in 3 positions. ■ Screw terminals connection.	21352
	Key Lock Push-button 10A - 250V~ ■ ON - OFF - ON. ■ Allows key removal in OFF position. ■ Screw terminals connection.	21351

ROCKERS / COVER PLATES		Ref.	Color
	Rocker for Double Function Mec with Orienting Light	50615 T	BR MF PT BM PM PR GR PL CH
	Double Rockers	50611 T	BR MF PT BM PM PR GR PL CH
	Rocker for Double Function Mec with Orienting Light	50615 T	BR MF PT BM PM PR GR PL CH
	Quadruple Rocker	50600 T	BR MF PT BM PM PR GR PL CH
	Cover Plate for Rotary Switch (ON/OFF)	50762 T	BR MF PT BM PM PR GR PL CH
	Cover Plate for Rotary Push-button / Two-way Switch	50761 T	BR MF PT BM PM PR GR PL CH
	Cover plate for Rotary Two-way switch (I, O, II)	50760 T	BR MF PT BM PM PR GR PL CH
	Cover Plate for 3 positions Rotary Switch	50765 T	BR MF PT BM PM PR GR PL CH
	Cover Plate for 4 positions Rotary Switch	50766 T	BR MF PT BM PM PR GR PL CH
	Cover Plate for Key Lock Push-button / Two-way Switch	50351 T	BR MF PT BM PM PR GR PL CH



CONTROL DEVICES	
	Ref.
 Pull-cord Two-way Switch 10AX - 250V~ ■ NO+NC. ■ Screw terminals connection.	21092
 Pull-cord Push-button 10A - 250V~ ■ NO. ■ Screw terminals connection.	21091
 Pull-cord Push-button (NO+NC) NEW 10A - 250V~ ■ NO+NC. ■ Screw terminals connection.	21090

ROCKERS / COVER PLATES	
	Ref. Color
 Cover Plate for Pull-cord Push-button / Two-way Switch ■ Cord with approximately 65 cm.	50741 T BR MF PT BM PM PR GR PL CH

TEMPERATURE CONTROL	
	Ref.
 Programmable Chronothermostat ECO ■ Rated voltage: 230V~ - 50Hz. ■ Breaking capacity: 16A. ■ Inverter contact (NO+NC), voltage free. ■ Range of temperature readings: -9°C to 35°C. ■ Optimized for electric floor heating. ■ Possibility of connecting the Floor Temperature Sensor (Ref. 81950), with automatic self-detection. See Technical Data Sheet - page 158.	21232
 Thermostat with Infrared Remote Control ECO ■ Rated voltage: 230V~ - 50Hz. ■ Breaking capacity: 16A. ■ Inverter contact (NO+NC), voltage free. ■ Range of temperature readings: -9°C to 35°C. ■ Optimized for electric floor heating. ■ Possibility to use the Infrared Remote Control/Multifunctions (Ref. 81900). ■ Possibility of connecting the Floor Temperature Sensor (Ref. 81950), with automatic self-detection. See Technical Data Sheet - page 158.	21233

ROCKERS / COVER PLATES	
	Ref. Color
 Cover Plate for Programmable Chronothermostat	50740 T BR MF PT BM PM PR GR PL CH
 Cover Plate for Thermostat with Infrared Remote Control	50742 T BR MF PT BM PM PR GR PL CH
 Floor Temperature Sensor for Programmable Chronothermostat and Thermostat with Infrared Remote Control ■ Length: 4m. ■ Range: -10° to 50°C. ■ IP67. ■ NTC 12K/25°C.	81950 —

MOTION DETECTORS	
	Ref.
 Motion Detector - 1000W ECO ■ Wall mounting. ■ Rated voltage: 230V~ - 50Hz. ■ Sensibility regulation. ■ Range of detection: 8 meters. ■ Detection angle: 160°. ■ Inverter contact (NO+NC), voltage free. ■ Relay output, compatible with all types of electric loads. See Technical Data Sheet - page 159.	21401
 Motion Detector - 400W ECO ■ Wall mounting. ■ Rated voltage: 230V~ - 50Hz. ■ Sensibility regulation. ■ Range of detection: 8 meters. ■ Detection angle: 160°. ■ Inverter contact (NO+NC), voltage free. ■ Relay output, compatible with all types of electric loads. See Technical Data Sheet - page 159.	21402

ROCKERS / COVER PLATES	
	Ref. Color
 Cover Plate for Motion Detectors	50401 T BR MF PT BM PM PR GR PL CH

ELECTRICAL BLINDS CONTROL

	Ref.
 Venetian Switch 10A - 250V~ ■ Switch function. ■ Electrical and mechanical blockade against two occasional simultaneous orders. ■ Toggles automatically one rocker when the other is pressed.	21290
 Venetian Switch with Mechanical Blockage 10A - 250V~ ■ Switch function. ■ Electrical and mechanical blockade against two occasional simultaneous orders. ■ It is necessary to press "STOP" before changing the direction of movement.	21291
 General Blinds Control Module with Infrared Remote Control  ■ Rated voltage: 230V~ - 50Hz. ■ Breaking capacity: 500VA. ■ Possibility to use the Infrared Remote Control/Multifunctions (Ref. 81900). ■ 2 programmable functions (Up/Down). ■ Function: "Standby".  See Technical Data Sheet - page 160.	21311
 Local Blinds Control Module with Infrared Remote Control  ■ Rated voltage: 230V~ - 50Hz. ■ Breaking capacity: 500VA. ■ Possibility to use the Infrared Remote Control/Multifunctions (Ref. 81900).  See Technical Data Sheet - page 160.	21312
 Venetian Double Push-button 10A - 250V~ ■ Push-button function. ■ Electrical blockade against two occasional simultaneous orders.	21281
 Venetian Double Push-button for multiple points Blinds Control 10A - 250V~ ■ Push-button function. ■ Electrical blockade against two occasional simultaneous orders. ■ It allows to control a blind from several points. ■ To be used with Relay for Blinds Control (Ref. 81511).	21283
 Rotary Push-button 16A - 250V~ ■ ON - OFF - ON.	21303

DIMMERS

	Ref.
 Dimmer for Fluorescent Lamps with Electronic Ballast EVG 1-10V  ■ I_{max} - 40mA. ■ Silent.  See Technical Data Sheet - page 164.	21210
 Ferromagnetic Dimmer/Two-way Switch - 500VA R, L ■ 20 - 500W/VA.  See Technical Data Sheet - page 164.	21211
 Electronic Dimmer/Two-way Switch - 320W R, C  ■ 5 - 320W. ■ Silent.  See Technical Data Sheet - page 164.	21212
 Electronic Dimmer/Two-way Switch - 550W R, C  ■ 20 - 550W/VA. ■ Silent.  See Technical Data Sheet - page 164.	21213

ROCKERS / COVER PLATES

	Ref.	Color
 Rockers for Venetian Switch	50613 T	BR MF PT BM PM PR GR PL CH
 Cover Plate for General Blinds Control Module with Infrared Remote Control	50311 T	BR MF PT BM PM PR GR PL CH
 Cover Plate for Local Blinds Control Module with Infrared Remote Control	50312 T	BR MF PT BM PM PR GR PL CH
 Rockers for Venetian Push-buttons	50612 T	BR MF PT BM PM PR GR PL CH
 Cover Plate for Rotary Push-button / Two-way Switch	50761 T	BR MF PT BM PM PR GR PL CH

ROCKERS / COVER PLATES

	Ref.	Color
 Cover Plate for Dimmer/Two-way Switch	50721 T	BR MF PT BM PM PR GR PL CH

DIMMERS		Ref.
	Dimmer/Two-way Switch for Energy Saving Lamps - 110VA R, L ■ 7 - 110W/VA. ■ 3 - 35W LED's. ■ Dimmable LEDs. See Technical Data Sheet - page 164.	21214
	Electronic Dimmer/Two-way Switch for Low Power Lamps - 150W R, C ■ 15 - 150W/VA. ■ 3 - 50W LED's. ■ Dimmable LEDs. ■ Silent. See Technical Data Sheet - page 164.	21215
	Ferromagnetic Dimmer/Two-way Switch for Energy Saving Lamps - 250W/VA R, L ■ 20 - 250W/VA. ■ 3 - 85W LED's. ■ Dimmable LEDs. See Technical Data Sheet - page 164.	21216
	Electronic Dimmer/Two-way Switch for Energy Saving Lamps - 450W/VA R, C ■ 15 - 450W/VA. ■ 5 - 150W LED's. ■ Dimmable LEDs. ■ Silent. See Technical Data Sheet - page 164.	21217
	Speed Controller for Induction Motors - 600VA ■ 25 - 600VA. See Technical Data Sheet - page 164.	21219

DATA SOCKETS		Ref.
	RJ45 Cat. 6 UTP Socket (Equipped with connector) See Technical Data Sheet - page 219.	21455
	RJ45 Cat. 6 STP Socket (Equipped with connector) See Technical Data Sheet - page 220.	21445
	RJ45 Cat. 5e UTP Socket (Equipped with connector) See Technical Data Sheet - page 219.	21453
	RJ45 Cat. 5e STP Socket (Equipped with connector) See Technical Data Sheet - page 220.	21443
	RJ45 Socket adapter (Equipped without connector)	21976

RJ45 CONNECTORS		Ref.
	RJ45 Cat. 6 UTP Connector (250 MHz) See Technical Data Sheet - page 219.	21978
	RJ45 Cat. 6 UTP - Connector for Rack assembly (250 MHz) See Technical Data Sheet - page 220.	82020
	RJ45 Cat. 5e UTP Connector (100 MHz) See Technical Data Sheet - page 219.	21975

ROCKERS / COVER PLATES		Ref.	Color
	Cover Plate for Dimmer/Two-way Switch	50721 T	BR MF PT BM PM PR GR PL CH

ROCKERS / COVER PLATES		Ref.	Color
	Cover Plate for Single RJ45 Computer Sockets	50751 T	BR MF PT BM PM PR GR PL CH

ROCKERS / COVER PLATES		Ref.	Color
	Cover Ring with Single support for RJ45 Connectors	50441 S	BR MF PT BM PM PR GR PL CH
	Cover Ring with Double Support for RJ45 Connectors	50442 S	

RJ45 CONNECTORS

	Ref.
 RJ45 Cat. 6 STP Connector (250 MHz) See Technical Data Sheet - page 220.	21988
 RJ45 Cat. 5e STP Connector (100 MHz) See Technical Data Sheet - page 220.	21985

COUPLERS FOR
FIBRE OPTIC CONNECTORS

	Ref.
 Coupler for SC APC Duplex Fibre Optic Connector See Technical Data Sheet - page 221.	82211
 Coupler for SC APC Simplex Fibre Optic Connector See Technical Data Sheet - page 221.	82210
 Coupler for LC Duplex Fibre Optic Connector See Technical Data Sheet - page 221.	82213
 Protective Cover for Coupler for SC APC Simplex Fibre Optic Connector	
 Protective Cover for Coupler for SC APC Duplex Fibre Optic Connector	

ROCKERS / COVER PLATES

	Ref.	Color
 NEW Cover Ring with Single support for RJ45 Connectors	50441 S	BR MF PT BM PM PR GR PL CH
 Cover Ring with Double Support for RJ45 Connectors	50442 S	

ROCKERS / COVER PLATES

	Ref.	Color
 Cover Plate for Coupler for SC APC Duplex Fibre Optic Connector	50448 S	BR MF PT BM PM PR GR PL CH
 Cover Plate for Coupler for SC APC Simplex / LC Duplex Fibre Optic Connector	50449 S	BR MF PT BM PM PR GR PL CH
 Protective Cover for Coupler for SC APC Simplex Fibre Optic Connector	82970	—
 Protective Cover for Coupler for SC APC Duplex Fibre Optic Connector	82971	—

TELEPHONE SOCKETS

	Ref.	Color
50V ~ 70V~  Telephone Socket (4 conductors)	21252 S	BR MF CZ AT PT
 Telephone Socket with Gel (4 conductors)	21255 S	BR MF CZ AT PT

* - For the Cover Plates of the Telephone Socket of the METALIZED finishing, please use the mechanism in the following colors: - **BM** (White Matt) - **BR** (White);
- **PM** (Black Matt) - **PT** (Black);
- **PR** (Silver) - **CZ** (Grey);
- **GR** (Graphite) - **AT** (Anthracite);
- **PL** (Platinum) - **MF** (Ivory);
- **CH** (Champagne) - **MF** (Ivory)

ROCKERS / COVER PLATES

	Ref.	Color
 Cover Plate for Telephone Socket	50712 T *	BR MF PT BM PM PR GR PL CH

8 contacts

 T8 French Telephone Socket	21411	—
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Cover Plate for T8 French Telephone Socket

50718 T	BR MF PT BM PM PR GR PL CH
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RADIO, TELEVISION AND SATELLITE SOCKETS

	Ref.
STAR CONNECTION  R - TV - SAT Socket Star Connection ■ 4 - 862 MHz: < 2dB. ■ 950 - 2400 MHz: < 3dB. ■ Current flow - 500 mA (DC). See Technical Data Sheet - page 170.	21543
 R - TV Socket Star Connection ■ 4 - 82 MHz: < 1dB. ■ 84 - 108 MHz: < 2dB. ■ 112 - 1000 MHz: < 1dB. See Technical Data Sheet - page 170.	21533

ROCKERS / COVER PLATES

	Ref.	Color
 Cover Plate for R - TV - SAT Sockets	50775 T	BR MF PT BM PM PR GR PL CH
 Cover Plate for R - TV Sockets	50776 T	



RADIO, TELEVISION AND SATELLITE SOCKETS	
	Ref.
SERIAL CONNECTION	
R - TV - SAT Socket (Terminal) ■ 4 - 446 MHz: < 6dB. ■ 470 - 862 MHz: < 9dB. ■ 950 - 2400 MHz: < 6dB. ■ Current flow - 500 mA (DC). See Technical Data Sheet - page 170.	21555
R - TV - SAT Socket (Passage) ■ 4 - 862 MHz: < 10dB. ■ 950 - 2150 MHz: < 11dB. ■ 2150 - 2400 MHz: < 9dB. ■ Current flow - 500 mA (DC). ■ Insertion losses: 3dB. See Technical Data Sheet - page 170.	21565
R - TV Socket (Terminal) ■ 4 - 82 MHz: < 6dB. ■ 84 - 108 MHz: < 8dB. ■ 112 - 1000 MHz: < 7dB. See Technical Data Sheet - page 170.	21554
R - TV Socket (Passage) ■ 4 - 1000 MHz: < 9dB. ■ Insertion losses: 2dB. See Technical Data Sheet - page 170.	21564

MULTIMEDIA SOCKETS	
	Ref.
STAR CONNECTION	
R - TV - SAT - RJ45 Cat. 6 UTP - FO SC-APC Multimedia Socket for Star Connection ■ 4 - 862 MHz: < 2dB. ■ 950 - 2400 MHz: < 3dB. ■ Current flow 500 mA (DC). See Technical Data Sheet - page 170.	21545
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 - page 109. ■ 4 - 862 MHz: < 2dB. ■ 950 - 2400 MHz: < 3dB. ■ Current flow 500 mA (DC). See Technical Data Sheet - page 170.	21544
R - TV - SAT - 2xRJ45 Cat. 6 UTP Multimedia Socket for Star Connection ■ 4 - 862 MHz: < 2dB. ■ 950 - 2400 MHz: < 3dB. ■ Current flow 500 mA (DC). See Technical Data Sheet - page 170.	21546
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. See Technical Data Sheet - page 170.	21535
R - TV - RJ45 Cat. 6 UTP Multimedia Socket for Star Connection ■ To be used with a SC APC Simplex or LC Duplex Fibre Optic Connector - page 109. ■ 4 - 82 MHz: < 1dB. ■ 84 - 108 MHz: < 2dB. ■ 112 - 1000 MHz: < 1dB. See Technical Data Sheet - page 170.	21534

ROCKERS / COVER PLATES	
	Ref. Color
Cover Plate for R - TV - SAT Sockets	50775 T BR MF PT BM PM PR GR PL CH
Cover Plate for R - TV Sockets	50776 T BR MF PT BM PM PR GR PL CH

ROCKERS / COVER PLATES	
	Ref. Color
Cover Plate for R - TV - SAT - RJ45 / R - TV - SAT - RJ45 - FO Multimedia Sockets	50770 T BR MF PT BM PM PR GR PL CH
Cover Plate for R - TV - SAT - 2xRJ45 Multimedia Socket	50773 T BR MF PT BM PM PR GR PL CH
Cover Plate for R - TV - RJ45 / R - TV - RJ45 - FO Multimedia Sockets	50774 T BR MF PT BM PM PR GR PL CH

APOLO 5000

ENERGY SOCKETS		Ref.
	Earth Socket (Schuko Type) with Screwless Terminals 16A - 250V~	21130
	Earth Socket (Schuko Type) 16A - 250V~	21131
	Single Phase Socket 16A - 250V~	21121
	Earth Socket (French Type) with Screwless Terminals 16A - 250V~	21110
	Earth Socket (French Type) 16A - 250V~	21111
	Earth Socket (Euro-USA Type) 15A - 127V~ / 16A - 250V~	21140
	Earth Socket (USA NEMA Type) 15A - 127V~ ■ SASO 2204 ■ NEMA 5-15	21143
	Safety Earth Socket (British Type) 13A - 250V~	21185
	Double USB Charger Type A with Output at 20° ■ Voltage: 100-240 V~. ■ Frequency: 50-60 Hz. ■ Output voltage: 5V~. ■ Output current: 2.4A. ■ Two USB type A outlets. See Technical Data Sheet - page 167.	21384

ROCKERS / COVER PLATES			Ref.	Color
	Safety Cover Plate for Earth Socket (Schuko Type)	50632 T	50632 T	BR MF PT BM PM PR GR PL CH LR VD VM
	Cover Plate for Earth Socket (Schuko Type)			
	Cover Plate for Schuko Socket with Safety and Hinged Lid (IP44)	50634 T	50634 T	BR MF PT BM PM PR GR PL CH VM VD
	Monoblock Cover for Safety Earth Socket (Schuko Type)	50903 T	50903 T	BR MF PT BM PM PR GR PL CH
	Monoblock Cover for Earth Socket (Schuko Type)	50902 T	50902 T	BR MF PT BM PM PR GR PL CH
	Safety Cover Plate for Single Phase Socket	50622 T	50622 T	BR MF PT BM PM PR GR PL CH
	Cover Plate for Single Phase Socket	50621 T	50621 T	
	Monoblock Cover for Single Phase Socket	50901 T	50901 T	
	Safety Cover Plate for Earth Socket (French Type)	50652 T	50652 T	BR MF PT BM PM PR GR PL CH LR VD VM
	Cover Plate for French Socket with Safety and Hinged Lid (IP44)	50654 T	50654 T	BR MF PT BM PM PR GR PL CH VM VD
	Safety Cover Plate for Earth Socket (Euro-USA Type)	50842 T	50842 T	BR MF PT BM PM PR GR PL CH LR VD VM
	Cover Plate for Earth Socket (Euro-USA Type)	50841 T	50841 T	
	Safety Cover Plate for Earth Socket (USA NEMA Type)	50843 T	50843 T	BR MF PT BM PM PR GR PL CH LR VD VM
	Cover Plate for Safety Earth Socket (British Type)	50642 T	50642 T	BR MF PT BM PM PR GR PL CH
	Cover Plate for Double USB Charger Type A with outlets at 20°	50673 T	50673 T	BR MF PT BM PM PR GR PL CH



ENERGY SOCKETS (SEMI-ASSEMBLED)

		Ref.	Color
	Safety Earth Socket (Schuko Type) with Screwless Terminals 16A - 250V~	50133 W	BR MF PT BM PM PR GR PL CH LR VD VM
	Earth Socket (Schuko Type) with Screwless Terminals 16A - 250V~	50130 W	
	Schuko Socket with Screwless Terminals Safety and Hinged Lid 16A - 250V~	50496 W	

IP44

APOLO 5000

OTHER MECHANISMS

	Ref.
 Cable Outlet - Three Terminals ■ 3x2,5mm ² - 250V~.	21173
 Cable Outlet - Four Terminals ■ 4x2,5mm ² - 250V~.	21174
 Pilot Light ■ Max. 5W (E14) 250V~. ■ To be used with Lamp (Ref. 81012) - page 138. ■ To be used with Lamp (Ref. 81013) - page 138.	21360
 Loudspeaker Screw Terminal Socket	21220
 Support for Blind Cover Plate	21222
 Buzzer 230V~ - 50Hz ■ D type. ■ 5/15 sec..	21990

ROCKERS / COVER PLATES

	Ref.	Color
 Cover Plate for Cable Outlets	50671 T	BR MF PT BM PM PR GR PL CH
 Cover for Pilot Light	50781 T	IC LR VD VM
 Cover Plate for Screw Terminal Loudspeaker Socket	50713 T	BR MF PT BM PM PR GR PL CH
 Blind Cover Plate	50677 T	BR MF PT BM PM PR GR PL CH
 Cover Plate for Loudspeaker of 2" - 32 Ohm / Buzzer	50710 T	BR MF PT BM PM PR GR PL CH

ACCESSORIES

	Ref.	Color
 IP44 Kit for MEC 21 Mechanisms - Single Rocker	21981	—
 IP44 Kit for MEC 21 Mechanisms - Double Rockers	21982	—
 Cover for Mechanisms Protection	21971	—
 Level and Mounting Accessory for MEC 21 Mechanisms	21989	—
 Card for Card-system Switch	21999	—

ACCESSORIES

		Ref.	Color
	Cover Plate for R - TV Socket Multibrand 2 Outputs ■ 30mm between hole centres. See Technical Data Sheet - page 151.	50685 T	BR MF PT BM PM PR GR PL CH
	Cover Plate for R - TV Socket Multibrand 2 Outputs ■ 30mm between hole centres. See Technical Data Sheet - page 151.	50686 T	BR MF PT BM PM PR GR PL CH
	Cover Plate for R - TV Socket Multibrand 3 Outputs ■ 30mm between R-TV hole centres. See Technical Data Sheet - page 151.	50680 T	BR MF PT BM PM PR GR PL CH
	Universal Cover Ring / Adapter for 45x45 Modules	50881 T	BR MF PT BM PM PR GR PL CH
	Flush Mounting Box ■ To be used in installations with trunkings with L75 Covers .	10984 A	BR
	Semi-Flush Mounting Box ■ To be used in installations with trunkings with L75 Covers .	10985 A	BR
	APOLO 5000 Series Surface Mounting Box	10981 A	BR MF
	Replacement LED for MEC 21 / 48 Series - 250V~	81019	—
	Replacement LED for MEC 21 / 48 Series - 12V	81018	—
	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 162.	81512	—
	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 centralized command of the installation, connect remotely to a Venetian Double Push-button (Ref. 21283 / 45283 S). See Technical Data Sheet - page 162.	81511	—
	Infrared Remote Control Transmitter Multifunctions ■ To control the Thermostat with Infrared Remote Control. ■ To control Blinds Control Modules with Infrared Remote Control. ■ To control the Surrounding Sound System. ■ Works with CR 2032 batteries, not included.	81900	—

COMPLETE DEVICES

		Ref.	Color
	Venetian Switch 10A - 250V~ ■ Switch function. ■ Electrical and mechanical blockade against two occasional simultaneous orders. ■ Toggles automatically one rocker when the other is pressed.	50290 C	BR MF
	Venetian Double Push-button 10A - 250V~ ■ Push-button function. ■ Electrical blockade against two occasional simultaneous orders.	50281 C	BR MF
	Ferromagnetic Dimmer/Two-way Switch - 500VA R, L 	50211 C	BR MF PT BM PM PR GR PL CH
	Electronic Dimmer/Two-way Switch - 320W R, C 	50212 C	
	Monoblock Safety Earth Socket (Schuko Type) with Screwless Terminals 16A - 250V~	50139 C	BR MF PT BM PM PR GR PL CH

COMPLETE DEVICES

		Ref.	Color
	Monoblock Safety Earth Socket (Schuko Type) 16A - 250V~	50138 C	BR MF PT BM PM PR GR PL CH
	Monoblock Earth Socket (Schuko Type) 16A - 250V~	50135 C	
	Monoblock Double Safety Earth Socket (Schuko Type) 16A - 250V~	50332 C	BR MF PT BM PM PR GR PL CH
	Monoblock Double Earth Socket (Schuko Type) 16A - 250V~	50331 C	
	Monoblock Double Safety Single Phase Socket 16A - 250V~	50322 C	BR MF PT BM PM PR GR PL CH
	Monoblock Double Single Phase Socket 16A - 250V~	50321 C	
	Earth Socket (British Type) 13A - 250V~	50184 C	BR MF PT BM PM PR GR PL CH
	Earth Socket (British Type) with Switch and Pilot Lamp 13A - 250V~	50183 C	
	Double Earth Socket (British Type) 13A - 250V~	50344 C	BR MF PT BM PM PR GR PL CH
	Double Earth Socket (British Type) with Switch and Pilot Lamp 13A - 250V~	50343 C	

FRAMES

		Single Frame 50910 T	Double Horizontal Frame 50921 T	Double Vertical Frame 50922 T	Triple Horizontal Frame 50931 T	Triple Vertical Frame 50932 T	Four-Gang Horizontal Frame 50941 T	Four-Gang Vertical Frame 50942 T	Waterproof Frame 50961 T IP44
		Color	Color	Color	Color	Color	Color	Color	Color
STANDARD		BR MF PT	BR MF PT	BR MF PT	BR MF PT	BR MF PT	BR MF PT	BR MF PT	BR MF PT
MATE		BM PM	BM PM	BM PM	BM PM	BM PM	BM PM	BM PM	BM PM
METALIZED		PR GR PL CH	PR GR PL CH	PR GR PL CH	PR GR PL CH	PR GR PL CH	PR GR PL CH	PR GR PL CH	PR GR PL CH

■ C - Complete Device; T - Rocker, Cover Plate or Frame.
 ■ BR - White; MF - Ivory; PT - Black; BM - White Matt; PM - Black Matt; PR - Silver; GR - Graphite; PL - Platinum; CH - Champagne.
 ■ See Frame Dimensions - page 149.





The Sirius 70 Series is synonymous of classic design.

The Sirius 70 Series combines neutral colors (cover plates in White, Ivory and Anthracite) with several finishings (frames with textures of metals and woods).

All functions from mec21 Series.

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CLASSIC



AMBIENT



METAL



WOOD



CONTROL DEVICES		Ref.
	Single Pole Switch 10AX - 250V~	21011
	Single Pole Switch with Orienting Light 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking. ■ Replacement LED - page 52.	21012
	Single Pole Switch with Pilot Lamp 10AX - 250V~ ■ Replacement LED - page 52.	21013
	Two-pole Switch 10AX - 250V~	21021
	Two-pole Switch with Pilot Lamp 10AX - 250V~ ■ Replacement LED - page 52.	21023
	Two-pole Switch with Pilot Lamp - 20A 20A - 250V~ ■ Screw terminals connection. ■ Replacement LED - page 52.	21024
	One Circuit Digital Time Switch  ■ Rated voltage: 230V~ - 50-60Hz. ■ Breaking capacity: 16A. ■ Output type: ON, OFF and PULSE. 	21041
	Two Circuit Digital Time Switch  ■ Rated voltage: 230V~ - 50-60Hz. ■ Breaking capacity: 6A + 6A. ■ Output type: ON, OFF and PULSE. 	21042
	Card-system Switch  10AX - 250V~ ■ Single Pole Switch with Orienting Light function. ■ Two-way Switch function (NO+NC). ■ For ATM card type (Ref. 21999). ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking. ■ Screw terminals connection. ■ Replacement LED - page 52.	21031
	Two Circuits Switch 10AX - 250V~	21061
	Two Circuits Switch - 20A 20A - 250V~ ■ Screw terminals connection.	21065
	Two Circuits Switch with Orienting Light  10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.	21062

ROCKERS / COVER PLATES		Ref.	Color
	Rocker for Switches	70601 T	BR MF AT
	Rocker for Lighted Switches	70602 T	BR MF AT
	Rocker for Lighted Switches / Push-button with Lamp Symbol	70797 T	BR MF AT
	Rocker for Switches	70601 T	BR MF AT
	Rocker for Two-pole Switch	70608 T	
	Rocker for Lighted Switches	70602 T	BR MF AT
	Rocker for Lighted Switches / Push-button "HEIZUNG NOTSCHALTER"	70798 T	BR MF AT
	Rocker for Lighted Switches / Push-button with Lamp Symbol	70797 T	BR MF AT
	Cover Plate for One Circuit Digital Time Switch	70743 T	BR MF AT
	Cover Plate for Two Circuits Digital Time Switch	70744 T	BR MF AT
	Cover Plate for Card-system Switch	70731 T	BR MF AT
	Double Rockers	70611 T	BR MF AT
	Rocker for Double Function Mec with Orienting Light 	70615 T	BR MF AT

CONTROL DEVICES		Ref.
	Two Circuits Switch with Pilot Lamp 10AX - 250V~ NEW	21063
	Three Circuits Switch 16AX - 250V~ ■ Screw terminals connection.	21088
	Two-way Switch 10AX - 250V~	21071
	Two-way Switch with Orienting Light 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking. ■ Replacement LED - page 52.	21072
	Two-way Switch with Pilot Lamp 10AX - 250V~ ■ Replacement LED - page 52.	21073
	Two-way Switch - 20A 20A - 250V~ ■ Screw terminals connection.	21075
	Double Two-way Switch 10AX - 250V~	21101
	Double Two-way Switch - 20A 20A - 250V~ ■ Screw terminals connection.	21103
	Double Two-Way Switch with Orienting Light 10AX - 250V~ NEW ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.	21202
	Double Two-way Switch with Pilot Lamp 10AX - 250V~ NEW	21203
	Intermediate Switch 10AX - 250V~	21051
	Double Intermediante Switch 10AX - 250V~ NEW	21204

ROCKERS / COVER PLATES			Ref.	Color
	Rocker for Double Function Mec with Orienting Light NEW	70615 T	BR MF AT	
	Triple Rockers	70661 T	BR MF AT	
	Rocker for Switches	70601 T	BR MF AT	
	Rocker for switches with big/small fans symbols NEW	70609 T		
	Rocker for Lighted Switches	70602 T	BR MF AT	
	Rocker for Switches	70601 T	BR MF AT	
	Rocker for switches with big/small fans symbols NEW	70609 T		
	Triple Rockers	70611 T	BR MF AT	
	Double Rockers for Two-way Switch Fan NEW	70616 T		
	Rocker for Double Function Mec with Orienting Light NEW	70615 T	BR MF AT	
	Rocker for Switches	70601 T	BR MF AT	
	Rocker for Double Function Mechanism NEW	70614 T	BR MF AT	

CONTROL DEVICES		Ref.
	Intermediate Switch with Orienting Light 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking. ■ Replacement LED - page 52.	21052
	Double Intermediate Switch Orienting Light 10AX - 250V~ NEW ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.	21205
	Rocker Push-button 10A - 250V~	21151
	Rocker Push-button (NO+NC) 10A - 250V~	21150
	Rocker Push-button with Orienting Light - 250V~ 10A - 250V~ ■ Replacement LED - page 52.	21152
	Rocker Push-button with Orienting Light - 12V 6A - 12V ■ Replacement LED - page 52.	21162
	Rocker Push-button with Independent Pilot Lamp 10A - 250V~ ■ Replacement LED - page 52.	21153
	Rocker Push-button with Identification - 250V~ 10A - 250V~	21155
	Rocker Push-button with Identification - 12V 6A - 12V	21165
	Double Push-button 10A - 250V~	21156
	Double Push-button (2NO+2NC) 10A - 250V~	21154

ROCKERS / COVER PLATES			Ref.	Color
	Rocker for Lighted Switches		70602 T	BR MF AT
	Rocker for Double Function Mec with Orienting Light NEW		70615 T	BR MF AT
	Rocker for Switches		70601 T	
	Rocker for Switches with Lock Symbol		70604 T	
	Rocker for Switches with Bell Symbol		70605 T	BR MF AT
	Rocker for Switches with Maid Symbol		70606 T	
	Rocker for Switches with Lamp Symbol		70607 T	
	Rocker for Lighted Switches		70602 T	
	Rocker for Lighted Switches / Push-button with Lock Symbol		70794 T	
	Rocker for Lighted Switches / Push-button with Bell Symbol		70795 T	BR MF AT
	Rocker for Lighted Switches / Push-button with Maid Symbol		70796 T	
	Rocker for Lighted Switches / Push-button with Lamp Symbol		70797 T	
	Rocker for Switches with Identification Card		70603 T	BR MF AT
	Double Rockers		70611 T	BR MF AT

CONTROL DEVICES

	Ref.
 Double Rocker Push-button with Orienting Light 250V~ 10A - 250V~ NEW ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.	21206
 Double Rocker Push-button with Orienting Light 12V 6A - 12V NEW	21207
 Two-way Switch / Rocker Push-button 10AX - 250V~ NEW	21158
 Rocker Push-button / Two-way Switch 10AX - 250V~	21159
 Two-way Switch with Orienting Light / Rocker Push-button with Orienting Light 10AX - 250V~ NEW ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.	21208
 Rocker Push-button with Orienting Light / Two-way Switch with Orienting Light 10AX - 250V~ NEW ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.	21209
 Electronic Very Low Tension 4-Gang Push-button 12V~ - 50mA / 32V~ - 18mA See Technical Data Sheet - page 157.	21164
 Rotary Switch - 16A 16AX - 250V~ ■ Screw terminals connection.	21302
 Rotary Two-way Switch - 16A 16AX - 250V~ ■ ON - OFF - ON. ■ Screw terminals connection.	21301
 3 Positions Rotary Switch White 16(4)A - 250V~ NEW ■ Screw terminals connection.	21300
 4 Positions Rotary Switch White 16(4)A - 250V~ NEW ■ Screw terminals connection.	21305
 Key Lock Two-way Switch 10AX - 250V~ ■ ON - OFF - ON. ■ It allows to remove the key in 3 positions. ■ Screw terminals connection.	21352
 Key Lock Push-button 10A - 250V~ ■ ON - OFF - ON. ■ Allows key removal in OFF position. ■ Screw terminals connection.	21351

ROCKERS / COVER PLATES

	Ref.	Color
 Rocker for Double Function Mec with Orienting Light NEW	70615 T	BR MF AT
 Triple Rockers	70611 T	BR MF AT
 Rocker for Double Function Mec with Orienting Light NEW	70615 T	BR MF AT
 Quadruple Rocker	70600 T	BR MF AT
 Cover Plate for Rotary Switch (ON/OFF)	70762 T	BR MF AT
 Cover Plate for Rotary Push-button / Two-way Switch	70761 T	BR MF AT
 Cover plate for Rotary Two-way switch (I, O, II) NEW	70760 T	BR MF AT
 Cover Plate for 3 positions Rotary Switch NEW	70765 T	BR MF AT
 Cover Plate for 4 positions Rotary Switch NEW	70766 T	BR MF AT
 Cover Plate for Key Lock Push-button / Two-way Switch	70351 T	BR MF AT



CONTROL DEVICES	
	Ref.
 Pull-cord Two-way Switch 10AX - 250V~ ■ NO+NC. ■ Screw terminals connection.	21092
 Pull-cord Push-button 10A - 250V~ ■ NO. ■ Screw terminals connection.	21091
 Pull-cord Push-button (NO+NC) NEW 10A - 250V~ ■ NO+NC. ■ Screw terminals connection.	21090

ROCKERS / COVER PLATES	
	Ref. Color
 Cover Plate for Pull-cord Push-button / Two-way Switch ■ Cord with approximately 65 cm.	70741 T BR MF AT

TEMPERATURE CONTROL	
	Ref.
 Programmable Chronothermostat eco ■ Rated voltage: 230V~ - 50Hz. ■ Breaking capacity: 16A. ■ Inverter contact (NO+NC), voltage free. ■ Range of temperature readings: -9°C to 35°C. ■ Optimized for electric floor heating. ■ Possibility of connecting the Floor Temperature Sensor (Ref. 81950), with automatic self- detection. See Technical Data Sheet - page 158.	21232
 Thermostat with Infrared Remote Control eco ■ Rated voltage: 230V~ - 50Hz. ■ Breaking capacity: 16A. ■ Inverter contact (NO+NC), voltage free. ■ Range of temperature readings: -9°C to 35°C. ■ Optimized for electric floor heating. ■ Possibility to use the Infrared Remote Control/ Multifunctions (Ref. 81900). ■ Possibility of connecting the Floor Temperature Sensor (Ref. 81950), with automatic self-detection. See Technical Data Sheet - page 158.	21233

ROCKERS / COVER PLATES	
	Ref. Color
 Cover Plate for Programmable Chronothermostat	70740 T BR MF AT
 Cover Plate for Thermostat with Infrared Remote Control	70742 T BR MF AT
 Floor Temperature Sensor for Programmable Chronothermostat and Thermostat with Infrared Remote Control ■ Length: 4m. ■ Range: -10° to 50°C. ■ IP67. ■ NTC 12K/25°C.	81950 —

MOTION DETECTORS	
	Ref.
 Motion Detector - 1000W eco ■ Wall mounting. ■ Rated voltage: 230V~ - 50Hz. ■ Sensibility regulation. ■ Range of detection: 8 meters. ■ Detection angle: 160°. ■ Inverter contact (NO+NC), voltage free. ■ Relay output, compatible with all types of electric loads. See Technical Data Sheet - page 159.	21401
 Motion Detector - 400W eco ■ Wall mounting. ■ Rated voltage: 230V~ - 50Hz. ■ Sensibility regulation. ■ Range of detection: 8 meters. ■ Detection angle: 160°. ■ Inverter contact (NO+NC), voltage free. ■ Relay output, compatible with all types of electric loads. See Technical Data Sheet - page 159.	21402

ROCKERS / COVER PLATES	
	Ref. Color
 Cover Plate for Motion Detectors	70401 T BR MF AT

ELECTRICAL BLINDS CONTROL

	Ref.
 Venetian Switch 10A - 250V~ ■ Switch function. ■ Electrical and mechanical blockade against two occasional simultaneous orders. ■ Toggles automatically one rocker when the other is pressed.	21290
 Venetian Switch with Mechanical Blockage 10A - 250V~ ■ Switch function. ■ Electrical and mechanical blockade against two occasional simultaneous orders. ■ It is necessary to press "STOP" before changing the direction of movement.	21291
 General Blinds Control Module with Infrared Remote Control  ■ Rated voltage: 230V~ - 50Hz. ■ Breaking capacity: 500VA. ■ Possibility to use the Infrared Remote Control/Multifunctions (Ref. 81900). ■ 2 programmable functions (Up/Down). ■ Function: "Standby". See Technical Data Sheet - page 160.	21311
 Local Blinds Control Module with Infrared Remote Control  ■ Rated voltage: 230V~ - 50Hz. ■ Breaking capacity: 500VA. ■ Possibility to use the Infrared Remote Control/Multifunctions (Ref. 81900). See Technical Data Sheet - page 160.	21312
 Venetian Double Push-button 10A - 250V~ ■ Push-button function. ■ Electrical blockade against two occasional simultaneous orders.	21281
 Venetian Double Push-button for multiple points Blinds Control 10A - 250V~ ■ Push-button function. ■ Electrical blockade against two occasional simultaneous orders. ■ It allows to control a blind from several points. ■ To be used with Relay for Blinds Control (Ref. 81511).	21283
 Rotary Push-button 16A - 250V~ ■ ON - OFF - ON. ■ Screw terminals connection.	21303

DIMMERS

	Ref.
 Dimmer for Fluorescent Lamps with Electronic Ballast EVG 1-10V  ■ I_{max} - 40mA. ■ Silent. See Technical Data Sheet - page 164.	21210
 Ferromagnetic Dimmer/Two-way Switch - 500VA R, L ■ 20 - 500W/VA. See Technical Data Sheet - page 164.	21211
 Electronic Dimmer/Two-way Switch - 320W R, C ■ 5 - 320W. ■ Silent. See Technical Data Sheet - page 164.	21212
 Electronic Dimmer/Two-way Switch - 550W R, C ■ 20 - 550W/VA. ■ Silent. See Technical Data Sheet - page 164.	21213

ROCKERS / COVER PLATES

	Ref.	Color
 Rockers for Venetian Switch	70613 T	BR MF AT
 Cover Plate for General Blinds Control Module with Infrared Remote Control	70311 T	BR MF AT
 Cover Plate for Local Blinds Control Module with Infrared Remote Control	70312 T	BR MF AT
 Rockers for Venetian Push-buttons	70612 T	BR MF AT
 Cover Plate for Rotary Push-button / Two-way Switch	70761 T	BR MF AT

ROCKERS / COVER PLATES

	Ref.	Color
 Cover Plate for Dimmer/Two-way Switch	70721 T	BR MF AT

DIMMERS		Ref.
	Dimmer/Two-way Switch for Energy Saving Lamps - 110VA R, L ■ 7 - 110W/VA. ■ 3 - 35W LED's. ■ Dimmable LEDs. See Technical Data Sheet - page 164.	21214
	Electronic Dimmer/Two-way Switch for Low Power Lamps - 150W R, C ■ 15 - 150W/VA. ■ 3 - 50W LED's. ■ Dimmable LEDs. ■ Silent. See Technical Data Sheet - page 164.	21215
	Ferromagnetic Dimmer/Two-way Switch for Energy Saving Lamps - 250W/VA R, L ■ 20 - 250W/VA. ■ 3 - 85W LED's. ■ Dimmable LEDs. See Technical Data Sheet - page 164.	21216
	Electronic Dimmer/ Two-way Switch for Energy Saving Lamps - 450W/VA R, C ■ 15 - 450W/VA. ■ 5 - 150W LED's. ■ Dimmable LEDs. ■ Silent. See Technical Data Sheet - page 164.	21217
	Speed Controller for Induction Motors - 600VA ■ 25 - 600VA. See Technical Data Sheet - page 164.	21219

DATA SOCKETS		Ref.
	RJ45 Cat. 6 UTP Socket (Equipped with connector) See Technical Data Sheet - page 219.	21455
	RJ45 Cat. 6 STP Socket (Equipped with connector) See Technical Data Sheet - page 220.	21445
	RJ45 Cat. 5e UTP Socket (Equipped with connector) See Technical Data Sheet - page 219.	21453
	RJ45 Cat. 5e STP Socket (Equipped with connector) See Technical Data Sheet - page 220.	21443
	RJ45 Socket adapter (Equipped without connector)	21976

RJ45 CONNECTORS		Ref.
	RJ45 Cat. 6 UTP Connector (250 MHz) See Technical Data Sheet - page 219.	21978
	RJ45 Cat. 6 UTP - Connector for Rack assembly (250 MHz) See Technical Data Sheet - page 220.	82020
	RJ45 Cat. 5e UTP Connector (100 MHz) See Technical Data Sheet - page 219.	21975

ROCKERS / COVER PLATES		Ref.	Color
	Cover Plate for Dimmer/Two-way Switch	70721 T	BR MF AT

ROCKERS / COVER PLATES		Ref.	Color
	Cover Plate for Single RJ45 Computer Sockets	70751 T	BR MF AT

ROCKERS / COVER PLATES		Ref.	Color
	Cover Ring with Single support for RJ45 Connectors	70441 S	BR MF AT
	Cover Ring with Double Support for RJ45 Connectors	70442 S	BR MF AT

RJ45 CONNECTORS

	Ref.
 RJ45 Cat. 6 STP Connector (250 MHz) See Technical Data Sheet - page 220.	21988
 RJ45 Cat. 5e STP Connector (100 MHz) See Technical Data Sheet - page 220.	21985

ROCKERS / COVER PLATES

	Ref.	Color
 NEW Cover Ring with Single support for RJ45 Connectors	70441 S	BR MF AT
 Cover Ring with Double Support for RJ45 Connectors	70442 S	

COUPLERS FOR FIBRE OPTIC CONNECTORS

	Ref.
 Coupler for SC APC Duplex Fibre Optic Connector See Technical Data Sheet - page 221.	82211
 Coupler for SC APC Simplex Fibre Optic Connector See Technical Data Sheet - page 221.	82210
 Coupler for LC Duplex Fibre Optic Connector See Technical Data Sheet - page 221.	82213
 Protective Cover for Coupler for SC APC Simplex Fibre Optic Connector	
 Protective Cover for Coupler for SC APC Duplex Fibre Optic Connector	

ROCKERS / COVER PLATES

	Ref.	Color
 Cover Plate for Coupler for SC APC Duplex Fibre Optic Connector	70448 S	BR MF AT
 Cover Plate for Coupler for SC APC Simplex / LC Duplex Fibre Optic Connector	70449 S	BR MF AT
 Protective Cover for Coupler for SC APC Simplex Fibre Optic Connector	82970	—
 Protective Cover for Coupler for SC APC Duplex Fibre Optic Connector	82971	—

TOMADAS TELEFÓNICAS

	Ref.	Color
50V ~ 70V~		
 Telephone Socket (4 conductors)	21252 S	BR MF CZ AT PT
 Telephone Socket with Gel (4 conductors)	21255 S	BR MF CZ AT PT
8 contacts		
 T8 French Telephone Socket	21411	—

ROCKERS / COVER PLATES

	Ref.	Color
 Cover Plate for Telephone Socket	70712 T	BR MF AT
 Cover Plate for T8 French Telephone Socket	70718 T	BR MF AT

RADIO, TELEVISION AND SATELLITE SOCKETS

	Ref.
STAR CONNECTION	
 R - TV - SAT Socket Star Connection ■ 4 - 862 MHz: < 2dB. ■ 950 - 2400 MHz: < 3dB. ■ Current flow - 500 mA (DC). See Technical Data Sheet - page 170.	21543
 R - TV Socket Star Connection ■ 4 - 82 MHz: < 1dB. ■ 84 - 108 MHz: < 2dB. ■ 112 - 1000 MHz: < 1dB. See Technical Data Sheet - page 170.	21533

ROCKERS / COVER PLATES

	Ref.	Color
 Cover Plate for R - TV - SAT Sockets	70775 T	BR MF AT
 Cover Plate for R - TV Sockets	70776 T	



RADIO, TELEVISION AND SATELLITE SOCKETS	
	Ref.
SERIAL CONNECTION	
R - TV - SAT Socket (Terminal) ■ 4 - 446 MHz: < 6dB. ■ 470 - 862 MHz: < 9dB. ■ 950 - 2400 MHz: < 6dB. ■ Current flow - 500 mA (DC). See Technical Data Sheet - page 170.	21555
R - TV - SAT Socket (Passage) ■ 4 - 862 MHz: < 10dB. ■ 950 - 2150 MHz: < 11dB. ■ 2150 - 2400 MHz: < 9dB. ■ Current flow - 500 mA (DC). ■ Insertion losses: 3dB. See Technical Data Sheet - page 170.	21565
R - TV Socket (Terminal) ■ 4 - 82 MHz: < 6dB. ■ 84 - 108 MHz: < 8dB. ■ 112 - 1000 MHz: < 7dB. See Technical Data Sheet - page 170.	21554
R - TV Socket (Passage) ■ 4 - 1000 MHz: < 9dB. ■ Insertion losses: 2dB. See Technical Data Sheet - page 170.	21564

MULTIMEDIA SOCKETS	
	Ref.
STAR CONNECTION	
R - TV - SAT - RJ45 Cat. 6 UTP - FO SC-APC Multimedia Socket for Star Connection ■ 4 - 862 MHz: < 2dB. ■ 950 - 2400 MHz: < 3dB. ■ Current flow 500 mA (DC). See Technical Data Sheet - page 170.	21545
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 - page 109. ■ 4 - 862 MHz: < 2dB. ■ 950 - 2400 MHz: < 3dB. ■ Current flow 500 mA (DC). See Technical Data Sheet - page 170.	21544
R - TV - SAT - 2xRJ45 Cat. 6 UTP Multimedia Socket for Star Connection ■ 4 - 862 MHz: < 2dB. ■ 950 - 2400 MHz: < 3dB. ■ Current flow 500 mA (DC). See Technical Data Sheet - page 170.	21546
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. See Technical Data Sheet - page 170.	21535
R - TV - RJ45 Cat. 6 UTP Multimedia Socket for Star Connection ■ To be used with a SC APC Simplex or LC Duplex Fibre Optic Connector - page 109. ■ 4 - 82 MHz: < 1dB. ■ 84 - 108 MHz: < 2dB. ■ 112 - 1000 MHz: < 1dB. See Technical Data Sheet - page 170.	21534

ROCKERS / COVER PLATES		
	Ref.	Color
Cover Plate for R - TV - SAT Sockets	70775 T	BR MF AT
Cover Plate for R - TV Sockets	70776 T	BR MF AT

ROCKERS / COVER PLATES		
	Ref.	Color
Cover Plate for R - TV - SAT - RJ45 / R - TV - SAT - RJ45 - FO Multimedia Sockets	70770 T	BR MF AT
Cover Plate for R - TV - SAT - 2xRJ45 Multimedia Socket	70773 T	BR MF AT
Cover Plate for R - TV - RJ45 / R - TV - RJ45 - FO Multimedia Sockets	70774 T	BR MF AT

sirius70

ENERGY SOCKETS		Ref.
	Earth Socket (Schuko Type) with Screwless Terminals 16A - 250V~	21130
	Earth Socket (Schuko Type) 16A - 250V~	21131
	Single Phase Socket 16A - 250V~	21121
	Earth Socket (French Type) with Screwless Terminals 16A - 250V~	21110
	Earth Socket (French Type) 16A - 250V~	21111
	Earth Socket (Euro-USA Type) 15A - 127V~ / 16A - 250V~	21140
	Earth Socket (USA NEMA Type) 15A - 127V~ ■ SASO 2204 ■ NEMA 5-15	21143
	Safety Earth Socket (British Type) 13A - 250V~	21185
	Double USB Charger Type A with Output a 20° ■ Voltage: 100-240 V~. ■ Frequency: 50-60 Hz. ■ Output voltage: 5V~. ■ Output current: 2.4A. ■ Two USB type A outlets. See Technical Data Sheet - page 167.	21384

ROCKERS / COVER PLATES			Ref.	Color
	Safety Cover Plate for Earth Socket (Schuko Type)	70632 T	BR MF AT LR VD VM	
	Cover Plate for Earth Socket (Schuko Type)	70631 T		
	Cover Plate for Schuko Socket with Safety and Hinged Lid (IP44)	70634 T	BR MF AT VM VD	
	Monoblock Cover for Safety Earth Socket (Schuko Type)	70903 T	BR MF AT	
	Monoblock Cover for Earth Socket (Schuko Type)	70902 T	BR MF AT	
	Safety Cover Plate for Single Phase Socket	70622 T	BR MF AT	
	Cover Plate for Single Phase Socket	70621 T		
	Monoblock Cover for Single Phase Socket	70901 T		
	Safety Cover Plate for Earth Socket (French Type)	70652 T	BR MF AT LR VD VM	
	Cover Plate for French Socket with Safety and Hinged Lid (IP44)	70654 T	BR MF AT VM VD	
	Safety Cover Plate for Earth Socket (Euro-USA Type)	70842 T	BR MF AT LR VD VM	
	Cover Plate for Earth Socket (Euro-USA Type)	70841 T		
	Safety Cover Plate for Earth Socket (USA NEMA Type)	70843 T	BR MF AT LR VD VM	
	Cover Plate for Safety Earth Socket (British Type)	70642 T	BR MF AT	
FEB. 2019				
	Cover Plate for Double USB Charger Type A with output a 20°	70673 T	BR MF AT	

OTHER MECHANISMS		Ref.
	Cable Outlet - Three Terminals ■ 3x2,5mm ² - 250V~.	21173
	Cable Outlet - Four Terminals ■ 4x2,5mm ² - 250V~.	21174
	Pilot Light ■ Max. 5W (E14) 250V~. ■ To be used with Lamp (Ref. 81012) - page 138. ■ To be used with Lamp (Ref. 81013) - page 138.	21360
	Loudspeaker Screw Terminal Socket	21220
	Support for Blind Cover Plate	21222
	Buzzer 230V~ - 50Hz ■ D type. ■ 5/15 sec..	21990

ROCKERS / COVER PLATES			Ref.	Color
	Cover Plate for Cable Outlets		70671 T	BR MF AT
	Cover for Pilot Light		70781 T	IC LR VD VM
	Cover Plate for Screw Terminal Loudspeaker Socket		70713 T	BR MF AT
	Blind Cover Plate		70677 T	BR MF AT
	Cover Plate for Loudspeaker of 2" - 32 Ohm / Buzzer		70710 T	BR MF AT

ACCESSORIES					Ref.	Color
	IP44 Kit for MEC 21 Mechanisms - Single Rocker	IP44			21981	—
	IP44 Kit for MEC 21 Mechanisms - Double Rockers	IP44			21982	—
	Cover for Mechanisms Protection				21971	—
	Level and Mounting Accessory for MEC 21 Mechanisms				21989	—
	Card for Card-system Switch				21999	—
	Cover Plate for R - TV Socket Multibrand 2 Outputs ■ 30mm between hole centres. See Technical Data Sheet - page 151.				70685 T	BR MF AT
	Cover Plate for R - TV Socket Multibrand 2 Outputs ■ 30mm between hole centres. See Technical Data Sheet - page 151.				70686 T	BR MF AT
	Cover Plate for R - TV Socket Multibrand 3 Outputs ■ 30mm between R-TV hole centres. See Technical Data Sheet - page 151.				70680 T	BR MF AT
	Universal Cover Ring / Adapter for 45x45 Modules				70881 T	BR MF AT VM

	Ref.	Color
 Flush Mounting Box ■ To be used in installations with trunkings with L75 Covers.	10984 A	BR
 Semi-Flush Mounting Box ■ To be used in installations with trunkings with L75 Covers.	10985 A	BR
 Sirius 70 Series Surface Mounting Box	10975 A	BR MF
 Replacement LED for MEC 21 / 48 Series - 250V~	81019	—
 Replacement LED for MEC 21 / 48 Series - 12V	81018	—
 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. i See Technical Data Sheet - page 162.	81512	—
 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 centralized command of the installation, connect remotely to a Venetian Double Push-button (Ref. 21283 / 45283 S). i See Technical Data Sheet - page 162.	81511	—
 Infrared Remote Control Transmitter Multifunctions ■ To control the Thermostat with Infrared Remote Control. ■ To control Blinds Control Modules with Infrared Remote Control. ■ To control the Surrounding Sound System. ■ Works with CR 2032 batteries, not included.	81900	—

COMPLETE DEVICES

	Ref.	Color
 Venetian Switch NEW 10A - 250V~ ■ Switch function. ■ Electrical and mechanical blockade against two occasional simultaneous orders. ■ Toggles automatically one rocker when the other is pressed.	70290 C	BR
 Venetian Double Push-button NEW 10A - 250V~ ■ Push-button function. ■ Electrical blockade against two occasional simultaneous orders.	70281 C	BR
 Ferromagnetic Dimmer/Two-way Switch - 500VA R, L eco ■ 20-500W/VA.	70211 C	BR MF AT
 Electronic Dimmer/Two-way Switch - 320W R, C eco ■ 5-320W/VA. ■ Silent.	70212 C	
 Monoblock Safety Earth Socket (Schuko Type) with Screwless Terminals 16A - 250V~	70139 C	BR MF AT
 Monoblock Safety Earth Socket (Schuko Type) 16A - 250V~	70138 C	
 Monoblock Earth Socket (Schuko Type) 16A - 250V~	70135 C	

COMPLETE DEVICES

		Ref.	Color
	Monoblock Double Safety Earth Socket (Schuko Type) 16A - 250V~	70332 C	BR MF AT
	Monoblock Double Earth Socket (Schuko Type) 16A - 250V~	70331 C	
	Monoblock Double Safety Single Phase Socket 16A - 250V~	70322 C	BR MF AT
	Monoblock Double Single Phase Socket 16A - 250V~	70321 C	
	Earth Socket (British Type) 13A - 250V~	70184 C	BR MF AT
	Earth Socket (British Type) with Switch and Pilot Lamp 13A - 250V~	70183 C	

FRAMES

		Single Frame 70910 T	Double Horizontal Frame 70921 T	Double Vertical Frame 70922 T	Triple Horizontal Frame 70931 T	Triple Vertical Frame 70932 T	Four-Gang Horizontal Frame 70941 T	Four-Gang Vertical Frame 70942 T	Waterproof Frame 70961 T IP44
		Color	Color	Color	Color	Color	Color	Color	Color
CLASSIC		BR MF AT	BR MF AT	BR MF AT	BR MF AT	BR MF AT	BR MF AT	BR MF AT	BR MF AT
AMBIENT		BB BM	BB BM	BB BM	BB BM	BB BM			
METAL		BI MI AI BO MO AO	BI MI AI BO MO AO	BI MI AI BO MO AO	BI MI AI BO MO AO	BI MI AI BO MO AO			
WOOD		BF MA MC MN MG AG	BF MA MC MN MG AG	BF MA MC MN MG AG	BF MA MC MN MG AG	BF MA MC MN MG AG			

■ C - Complete Device; T - Rocker, Cover Plate or Frame.

■ CLASSIC: BR - White; MF - Ivory; AT - Anthracite.

■ AMBIENT: BB - White/White; BM - White/Ivory.

■ METAL: BI - White/Inox; MI - Ivory/Inox; AI - Anthracite/Inox; BO - White/Gold; MO - Ivory/Gold; AO - Anthracite/Gold.

■ WOOD: BF - White/Beech Wood; MA - Ivory/Beech Wood; MC - Ivory/Cherry Tree; MN - Ivory/Walnut Tree; MG - Ivory/Mahogany; AG - Anthracite/Mahogany.

■ See Frame Dimensions - page 150.

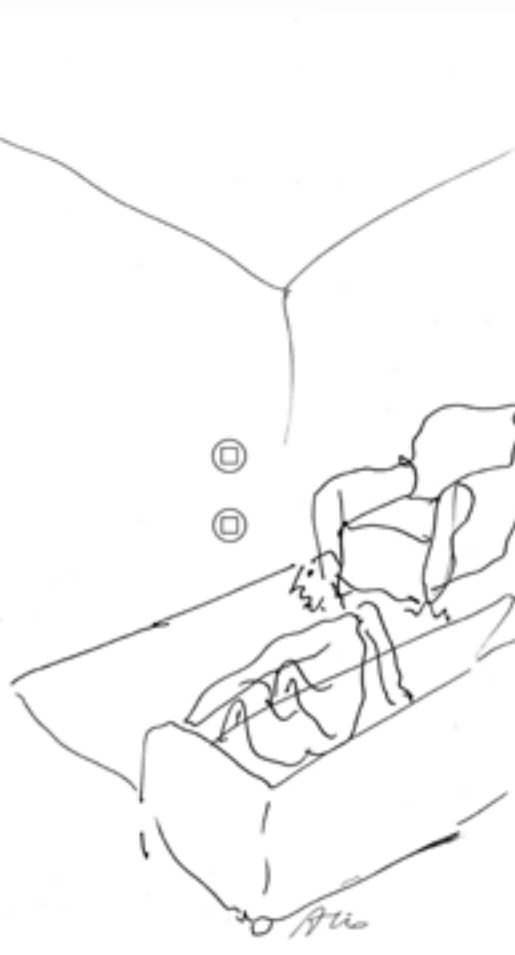


QUADRO 45

Siza Vieira

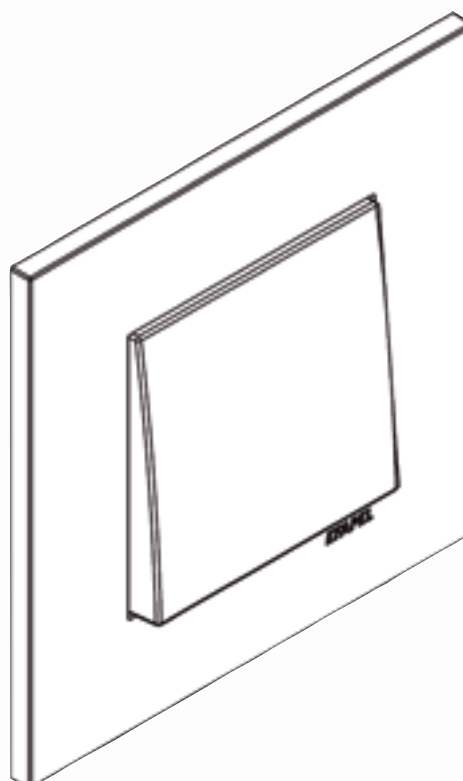
The QUADRO 45 - design *Siza Vieira* has the signature of the prestigious contemporary architect Álvaro Siza Vieira.

An exclusive master piece for contemporary and avant-garde spaces.



QUADRO 45

With a minimalist design, the QUADRO 45 Series reflects the current trendy and functional lines.



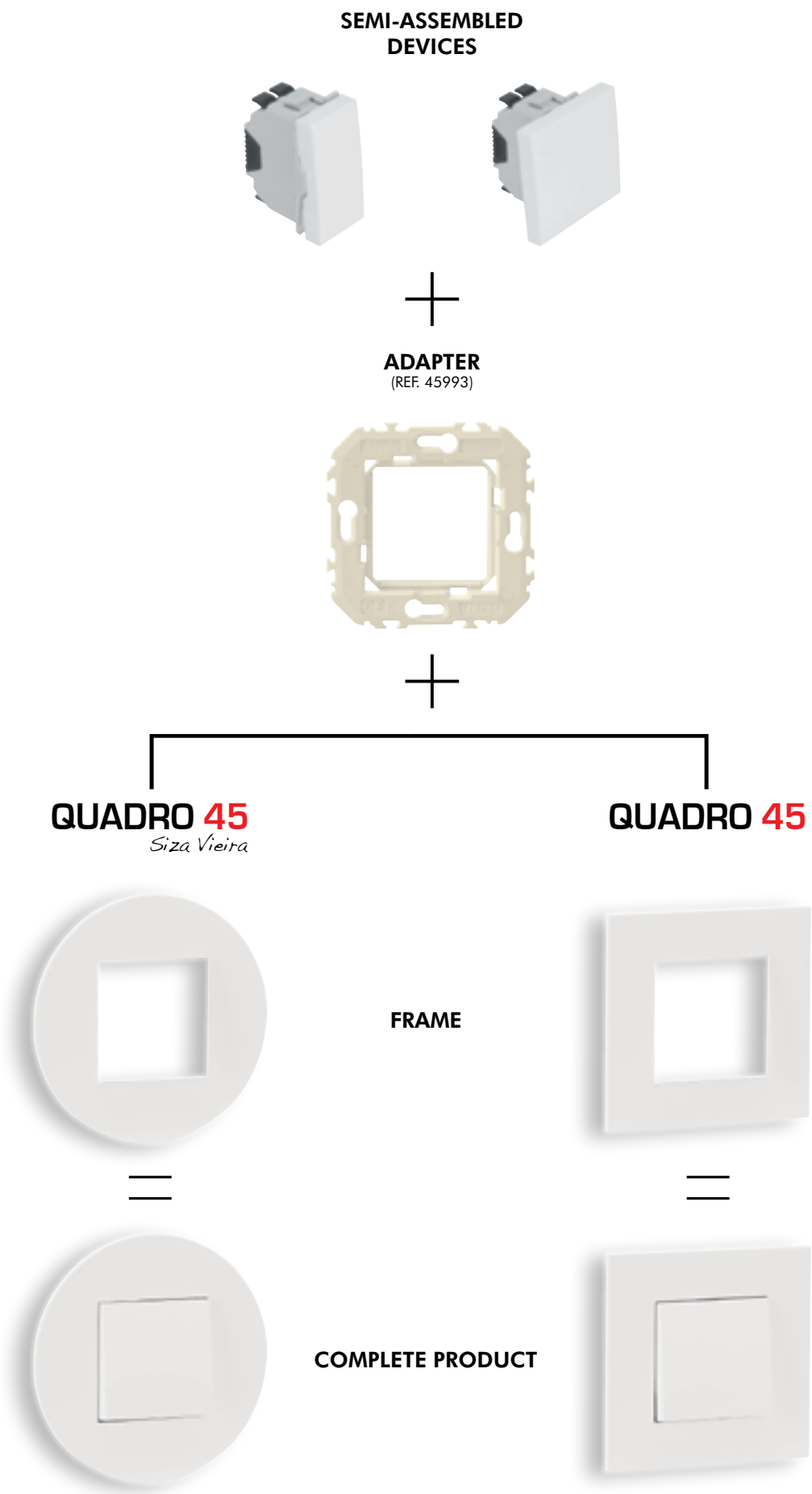


Siza Vieira



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QUADRO 45



QUADRO 45 - *Siza Vieira*



BR
White

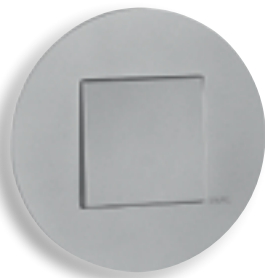
QUADRO 45



BM
White Matt



PM
Black Matt



AL
Aluminium

QUADRO 45



BR
White



BM
White Matt



PM
Black Matt



AL
Aluminium

CONTROL DEVICES (SEMI-ASSEMBLED DEVICES)

		Ref.	Color
	Single Pole Switch - 2 Modules 10AX - 250V~	45011 S	BR BM PM AL
	Single Pole Switch - 1 Module 10AX - 250V~	45010 S	
	Single Pole Switch with Orienting Light - 2 Modules 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.	45012 S	BR BM PM AL
	Single Pole Switch with Orienting Light - 1 Module 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.	45015 S	
	Single Pole Switch with Pilot Lamp - 2 Modules 10AX - 250V~	45013 S	BR BM PM AL
	Single Pole Switch with Pilot Lamp - 1 Module 10AX - 250V~	45016 S	
	Two-pole Switch - 2 Modules 10AX - 250V~	45021 S	BR BM PM AL
	Two-pole Switch - 1 Module 10AX - 250V~	45020 S	
	Two-pole Switch with Pilot Lamp - 2 Modules 10AX - 250V~	45023 S	BR BM PM AL
	Two-pole Switch with Pilot Lamp - 1 Module 10AX - 250V~	45026 S	
	One Circuit Digital Time Switch - 2 Modules  ■ Rated voltage: 230V~ - 50-60Hz. ■ Breaking capacity: 16A. ■ Output type: ON, OFF and PULSE. See Technical Data Sheet - page 156.	45041 S	BR BM PM AL
	Two Circuits Digital Time Switch - 2 Modules  ■ Rated voltage: 230V~ - 50-60Hz. ■ Breaking capacity: 6A + 6A. ■ Output type: ON, OFF and PULSE. See Technical Data Sheet - page 156.	45042 S	
	Two Circuits Switch - 2 Modules 10AX - 250V~	45061 S	BR BM PM AL
	Two-way Switch - 2 Modules 10AX - 250V~	45071 S	BR BM PM AL
	Two-way Switch - 1 Module 10AX - 250V~	45070 S	
	Two-way Switch with Orienting Light - 2 Modules 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.	45072 S	BR BM PM AL
	Two-way Switch with Orienting Light - 1 Module 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.	45074 S	

CONTROL DEVICES (SEMI-ASSEMBLED DEVICES)

			Ref.	Color
	Two-way Switch with Pilot Lamp - 2 Modules 10AX - 250V~		45073 S	BR BM PM AL
	Two-way Switch with Pilot Lamp - 1 Module 10AX - 250V~		45076 S	
	Two-pole Two-way Switch - 2 Modules 10AX - 250V~	NEW	45077 S	BR BM PM AL
	Intermediate Switch - 2 Modules 10AX - 250V~		45051 S	BR BM PM AL
	Intermediate Switch - 1 Module 10AX - 250V~	NEW	45050 S	
	Intermediate Switch with Orienting Light - 2 Modules 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.		45052 S	BR BM PM AL
	Intermediate Switch with Orienting Light - 1 Module 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.		45053 S	
	Rocker Push-button - 2 Modules 10A - 250V~		45151 S	BR BM PM AL
	Rocker Push-button - 1 Module 10A - 250V~		45161 S	
	Rocker Push-button (NO+NC) - 2 Modules 10A - 250V~		45150 S	BR BM PM AL
	Rocker Push-button (NO+NC) - 1 Module 10A - 250V~		45166 S	
	Rocker Push-Button with Bell symbol - 2 Modules () 10A - 250V~	NEW	45177 S	
	Rocker Push-Button with Bell symbol - 1 Module () 10A - 250V~	NEW	45167 S	BR BM PM AL
	Rocker Push-Button with Lamp symbol - 2 Modules () 10A - 250V~	NEW	45179 S	
	Rocker Push-Button with Lamp symbol - 1 Module () 10A - 250V~	NEW	45169 S	
	Rocker Push-button with Orienting Light (250V~) - 2 Modules 10A - 250V~		45152 S	BR BM PM AL
	Rocker Push-button with Orienting Light (250V~) - 1 Module 10A - 250V~		45160 S	

CONTROL DEVICES (SEMI-ASSEMBLED DEVICES)

		Ref.	Color
	Rocker Push-button with Orienting Light (12V) - 2 Modules 10A - 250V~	45162 S	BR BM PM AL
	Rocker Push-button with Orienting Light (12V) - 1 Module 10A - 250V~	45163 S	
	Rocker Push-button Orienting Light with Lamp symbol - 2 Modules NEW 10A - 250V~	45172 S	BR BM PM AL
	Rocker Push-button Orienting Light with Lamp symbol - 1 Module NEW 10A - 250V~	45171 S	
	Double Push-button - 2 Modules 10A - 250V~	45156 S	BR BM PM AL
	Rocker Push-button/Two-way Switch - 2 Modules 10AX - 250V~	45159 S	BR BM PM AL
	Electronic Very Low Tension 4-Gang Push-button - 2 Modules 12V~ - 50mA / 32V~ - 18mA See Technical Data Sheet - page 157.	45164 S	BR BM PM AL

TEMPERATURE CONTROL (SEMI-ASSEMBLED DEVICES)

		Ref.	Color
	Programmable Chronothermostat - 2 Modules eco ■ Rated voltage: 230V~ - 50Hz. ■ Breaking capacity: 16A. ■ Inverter contact (NO+NC), voltage free. ■ Range of temperature readings: -9°C to 35°C. ■ Optimized for electric floor heating. ■ Possibility of connecting the Floor Temperature Sensor (Ref. 81950), with automatic self detection. See Technical Data Sheet - page 158.	45232 S	BR BM PM AL
	Thermostat with Infrared Remote Control - 2 Modules eco ■ Rated voltage: 230V~ - 50Hz. ■ Breaking capacity: 16A. ■ Inverter contact (NO+NC), voltage free. ■ Range of temperature readings: -9°C to 35°C. ■ Optimized for electric floor heating. ■ Possibility to use the Infrared Remote Control/ Multifunctions (Ref. 81900). ■ Possibility of connecting the Floor Temperature Sensor (Ref. 81950), sensor self detection. See Technical Data Sheet - page 158.	45233 S	BR BM PM AL
	Floor Temperature Sensor for Programmable Chronothermostat and Thermostat with Infrared Remote Control ■ Length: 4m. ■ Range: -10° to 50°C. ■ IP67. ■ NTC 12K/25°C.	81950	—

MOTION DETECTORS (SEMI-ASSEMBLED DEVICES)

		Ref.	Color
	Motion Detector - 1000W - 2 Modules eco ■ Wall mounting. ■ Rated voltage: 230V~ - 50Hz. ■ Sensibility regulation. ■ Range of detection: 8 meters. ■ Detection angle: 160°. ■ Inverter contact (NO+NC), voltage free. ■ Relay output, compatible with all types of electric loads. See Technical Data Sheet - page 159.	45401 S	BR BM PM AL
	Motion Detector - 400W - 2 Modules eco ■ Wall mounting. ■ Rated voltage: 230V~ - 50Hz. ■ Sensibility regulation. ■ Range of detection: 8 meters. ■ Detection angle: 160°. ■ Inverter contact (NO+NC), voltage free. ■ Relay output, compatible with all types of electric loads. See Technical Data Sheet - page 159.	45402 S	BR BM PM AL

ELECTRICAL BLINDS CONTROL (SEMI-ASSEMBLED DEVICES)

		Ref.	Color
	Venetian Switch - 2 Modules 10A - 250V~ ■ Switch function. ■ Electrical and mechanical blockade against two occasional simultaneous orders. ■ Toggles automatically one rocker when the other is pressed.	45293 S	BR BM PM AL
	Venetian Switch with Mechanical Blockage - 2 Modules 10A - 250V~ ■ Switch function. ■ Electrical and mechanical blockade against two occasional simultaneous orders. ■ It is necessary to press "STOP" before changing the direction of movement.	45295 S	
	General Blinds Control Module with Infrared Remote Control - 2 Modules  ■ Rated voltage: 230V~ - 50Hz. ■ Breaking capacity: 500VA. ■ Possibility to use the Infrared Remote Control Multifunctions (Ref. 81900). ■ 2 programmable functions (Up/Down). ■ Function: "Standby". See Technical Data Sheet - page 160.	45311 S	BR BM PM AL
	Local Blinds Control Module with Infrared Remote Control - 2 Modules  ■ Rated voltage: 230V~ - 50Hz. ■ Breaking capacity: 500VA. ■ Possibility to use the Infrared Remote Control Multifunctions (Ref. 81900). See Technical Data Sheet - page 160.	45312 S	
	Venetian Double Push-button - 2 Modules 10A - 250V~ ■ Push-button function. ■ Electrical blockade against two occasional simultaneous orders.	45281 S	BR BM PM AL
	Venetian Double Push-button for Multiple Points Blinds Control - 2 Modules 10A - 250V~ ■ Push-button function. ■ Electrical blockade against two occasional simultaneous orders. ■ It allows to control a blind from several points. ■ To be used with Relay for Blinds Control (Ref. 81511).	45283 S	

VOICE AND DATA SOCKETS (SEMI-ASSEMBLED DEVICES)

		Ref.	Color
	USB Data Socket - 1 Module  ■ Allows data passage through USB connection. ■ Maximum bit rate: 12 Mbit/s. ■ Screw terminals connection. See Technical Data Sheet - page 169.	45437 S	BR BM PM AL MF AT GE PE IS DU PR GR PL CH
	HDMI Socket with Connector - 1 Module  ■ Allows the passage of Audio/Visual data in high definition through the HDMI connector, between any transmitter (computer, DVD, ...) with an HDMI connection and a terminal (TV, LCD, Video projector,...). ■ Maximum resolution: 1080p. See Technical Data Sheet - page 168.	45435 S	BR BM PM AL MF AT GE PE IS DU PR GR PL CH
	HDMI Socket with Screwless Connect - 2 Modules  ■ Allows the passage of Audio/Visual data in high definition through the HDMI connector, between any transmitter (computer, DVD, ...) with an HDMI connection and a terminal (TV, LCD, Video projector,...). ■ Maximum resolution: 1080p. ■ Screw terminals connection. See Technical Data Sheet - page 168.	45436 S	BR BM PM AL MF AT GE PE IS DU PR GR PL CH
	Female HD15 Socket - 2 Modules  ■ Allows the passage of video data through a VGA connector between any transmitter (computer, DVD,...) with a VGA connection and a terminal (TV, LCD, Video projector,...). ■ Screw terminals connection. See Technical Data Sheet - page 169.	45430 S	BR BM PM AL MF AT GE PE IS DU PR GR PL CH
	Female RCA Socket 3 Outputs - 1 Module  ■ Allows the passage of video data through a RCA connector between any transmitter (computer, DVD,...) with a RCA connection and a terminal (TV, LCD, Video projector,...). ■ Screw terminals connection. See Technical Data Sheet - page 169.	45580 S	BR BM PM AL MF AT GE PE IS DU PR GR PL CH

VOICE AND DATA SOCKETS (SEMI-ASSEMBLED DEVICES)

	Ref.	Color
 Module with 1 RJ45 Cat. 6 UTP Connector - 1 Module See Technical Data Sheet - page 219.	45978 S	BR BM PM AL
 Module with 1 RJ45 Cat. 5e UTP Connector - 1 Module See Technical Data Sheet - page 219.	45975 S	BR BM PM AL
 Module with 1 RJ11 Cat. 3 Connector - 1 Module	45972 S	BR BM PM AL
 Module with 1 RJ45 Cat. 6 STP Connector - 1 Module See Technical Data Sheet - page 220.	45988 S	BR BM PM AL
 Module with 1 RJ45 Cat. 5e STP Connector - 1 Module See Technical Data Sheet - page 220.	45985 S	BR BM PM AL
 Module with 1 Coaxial Connector Type F - 1 Module	45979 S	BR BM PM AL
 Module with 1 IEC Male/ Type F connector - 1 Module NEW	45982 S	BR BM PM AL
 Module with 1 IEC Female/ Type F connector - 1 Module NEW	45983 S	BR BM PM AL

ACCESSORIES FOR VOICE AND DATA SOCKETS (SEMI-ASSEMBLED DEVICES)

	Ref.	Color
 Face Plate for 2 RJ45 Connectors - 2 Modules (Whitout connectors) ■ To be used with RJ Keystone type connector - page 109.	45971 S	BR BM PM AL
 Face Plate for 1 RJ45 Connector - 2 Modules (Whitout connectors) ■ To be used with RJ Keystone type connector - page 109.	45976 S	BR BM PM AL
 Face Plate for 1 RJ45 Connector - 1 Module (Not equipped) ■ To be used with RJ Keystone type connector - page 109.	45977 S	BR BM PM AL
 Blind Face Plate - 1 Module	45970 S	BR BM PM AL MF AT GE PE IS PR GR PL CH

CONNECTORS

	Ref.	Color
 RJ45 Cat. 6 UTP Connector (250 MHz) See Technical Data Sheet - page 219.	21978	
 RJ45 Cat. 6 UTP - Connector for Rack assemblage (250 MHz) See Technical Data Sheet - page 220.	82020	—
 RJ45 Cat. 6 STP Connector (250 MHz) See Technical Data Sheet - page 220.	21988	
 RJ45 Cat. 5e UTP Connector (100 MHz) See Technical Data Sheet - page 219.	21975	
 RJ45 Cat. 5e STP Connector (100 MHz) See Technical Data Sheet - page 220.	21985	
 RJ11 Cat. 3 Connector	21972	—

■ S - Semi-assembled.

■ BR - White; BM - White Matt; PM - Black Matt; AL - Aluminium; MF - Ivory; AT - Anthracite; GE - Ice; PE - Pearl; IS - Gray; DU - Golden; PR - Silver; GR - Graphite; PL - Platinum; CH - Champagne.

COUPLERS FOR FIBRE OPTIC CONNECTORS (SEMI-ASSEMBLED DEVICES)

	Ref.	Color
 Module with Coupler for SC APC Duplex Fibre Optic Connector - 2 Modules See Technical Data Sheet - page 221.	45448 S	
 Module with Coupler for SC APC Simplex Fibre Optic Connector - 2 Modules See Technical Data Sheet - page 221.	45447 S	BR BM PM AL
 Module with Coupler for LC Duplex Fibre Optic Connector - 2 Modules See Technical Data Sheet - page 221.	45449 S	
 Protective Cover for Coupler for SC APC Simplex Fibre Optic Connector	82970	—
 Protective Cover for Coupler for SC APC Duplex Fibre Optic Connector	82971	—

RADIO, TELEVISION AND SATELLITE (SEMI-ASSEMBLED DEVICES)

	Ref.	Color
STAR CONNECTION		
 R - TV - SAT Socket Star Connection - 2 Modules ■ 4 - 862 MHz: < 2dB. ■ 950 - 2400 MHz: < 3dB. ■ Current flow: 500mA (DC). See Technical Data Sheet - page 171.	45543 S	BR BM PM AL
 R - TV Socket Star Connection - 2 Modules ■ 4 - 82 MHz: < 1dB. ■ 84 - 108 MHz: < 2dB. ■ 112 - 1000 MHz: < 1dB. See Technical Data Sheet - page 171.	45533 S	

SERIES CONNECTION		
 R - TV - SAT Socket (Terminal) - 2 Modules ■ 4 - 446 MHz: < 6dB. ■ 470 - 862 MHz: < 9dB. ■ 950 - 2400 MHz: < 6dB. ■ Current flow: 500mA (DC). See Technical Data Sheet - page 171.	45555 S	
 R - TV - SAT Socket (Passage) - 2 Modules ■ 4 - 862 MHz: < 10dB. ■ 950 - 2150 MHz: < 11dB. ■ 2150 - 2400 MHz: < 9dB. ■ Current flow: 500mA (DC). ■ Insertion losses: 3dB. See Technical Data Sheet - page 171.	45565 S	BR BM PM AL
 R - TV Socket (Terminal) - 2 Modules ■ 4 - 82 MHz: < 6dB. ■ 84 - 108 MHz: < 8dB. ■ 112 - 1000 MHz: < 7dB. See Technical Data Sheet - page 171.	45554 S	
 R - TV Socket (Passage) - 2 Modules ■ 4 - 1000 MHz: < 9dB. ■ Insertion losses: 2dB. See Technical Data Sheet - page 171.	45564 S	

ENERGY SOCKETS (SEMI-ASSEMBLED DEVICES)

	Ref.	Color
 Double USB charger type A ■ Voltage: 100-240 V~. ■ Frequency: 50-60Hz. ■ Output voltage: 5V~. ■ Output current: 2.1A. ■ Two USB Type A outlets.	45439 S	BR BM PM AL MF GE PE IS DU PR GR PL CH
 Double USB charger type A with outlets at 20° - 2 Modules FEB. 2019 ■ Voltage: 100-240 V~. ■ Frequency: 50-60 Hz. ■ Output voltage: 5V~. ■ Output current: 2.4A. ■ Two USB Type A outlets.	45384 S	BR BM PM AL MF AT GE PE IS DU PR GR PL CH
 USB charger type A - 1 Module FEB. 2019 ■ Voltage: 100-240 V~. ■ Frequency: 50-60 Hz. ■ Output voltage: 5V~. ■ Output current: 1.5A. ■ USB outlet Type A.	45383 S	BR BM PM AL MF AT GE PE IS DU PR GR PL CH

			Ref.	Color
	Safety Earth Socket (Schuko type) Horizontal Apertures - 2 Modules 16A - 250V~ ■ Screw terminals connection.	FEB. 2019	45129 S	BR BM PM AL LR VD VM
	Safety Earth Socket (Schuko type) Horizontal Apertures and hinged Lid - 2 Modules 16A - 250V~ ■ Screw terminals connection.	FEB. 2019	45128 S	
	Safety Earth Socket (Schuko type) Horizontal Apertures with Screwless terminals - 2 Modules 16A - 250V~	FEB. 2019	45126 S	
	Safety Earth Socket (Schuko type) Horizontal Apertures with Screwless terminals and hinged Lid - 2 Modules 16A - 250V~	FEB. 2019	45127 S	
	Safety Earth Socket (Schuko Type) - 2 Modules 16A - 250V~ ■ Screw terminals connection.		45132 S	BR BM PM AL LR VD VM
	Earth Socket (Schuko Type) - 2 Modules 16A - 250V~ ■ Screw terminals connection.		45131 S	
	Earth Socket (Schuko Type) with Blockage - 2 Modules 16A - 250V~ ■ With electrical shock protection. ■ Supplied with blocking pin (Ref. 45991). ■ Screw terminals connection.		45136 S	VM
	Earth Socket (Schuko Type) with Blockage and Signal Light - 2 Modules 16A - 250V~ ■ With electrical shock protection. ■ Supplied with blocking pin (Ref. 45991). ■ Screw terminals connection.		45137 S	
	Safety Earth Socket (French type) Horizontal Apertures - 2 Modules 16A - 250V~ ■ Screw terminals connection.	FEB. 2019	45479 S	BR BM PM AL LR VD VM
	Safety Earth Socket (French type) Horizontal Apertures and hinged Lid - 2 Modules 16A - 250V~ ■ Screw terminals connection.	FEB. 2019	45475 S	
	Safety Earth Socket (French type) Horizontal Apertures with Screwless terminals - 2 Modules 16A - 250V~	FEB. 2019	45476 S	
	Safety Earth Socket (French type) Horizontal Apertures with Screwless terminals and hinged Lid - 2 Modules 16A - 250V~	FEB. 2019	45477 S	
	Safety Earth Socket (French Type) - 2 Modules 16A - 250V~ ■ Screw terminals connection.		45112 S	BR BM PM AL LR VD VM
	Earth Socket (French Type) - 2 Modules 16A - 250V~ ■ Screw terminals connection.		45111 S	BR LR VD VM

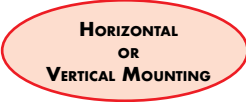
ENERGY SOCKETS (SEMI-ASSEMBLED DEVICES)

	Ref.	Color
 Earth Socket (French Type) with Blockage - 2 Modules 16A - 250V~ ■ With electrical shock protection. ■ Supplied with blocking pin (Ref. 45991).	45116 S	VM
 Earth Socket (French Type) with Blockage and Signal Light - 2 Modules 16A - 250V~ ■ With electrical shock protection. ■ Supplied with blocking pin (Ref. 45991).	45117 S	VM
 Safety Earth Socket (Euro-USA Type) - 2 Modules 15A - 127V~/ 16A - 250V~	45142 S	BR BM PM AL VM
 Earth Socket (Euro-USA Type) - 2 Modules 15A - 127V~/ 16A - 250V~	45140 S	BR BM PM AL VM
 Earth Socket (USA NEMA Type) - 2 Modules 15A - 127V~ ■ SASO 2204. ■ NEMA 5-15.	45144 S	BR BM PM AL VM

PRE-CABLED DOUBLE AND TRIPLE SOCKETS

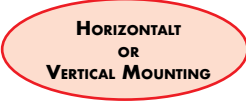
	Ref.	Color
 Block of Two Safety Earth Sockets (Schuko Type) - 4 Modules 16A - 250V~	45192 S	BR VM
 Block of Two Earth Sockets (Schuko Type) - 4 Modules 16A - 250V~	45190 S	BR VM
 Block of Two Safety Earth Sockets (French Type) - 4 Modules 16A - 250V~	45193 S	BR VM
 Block of Two Earth Sockets (French Type) - 4 Modules 16A - 250V~	45191 S	BR VM
 Block of Three Safety Earth Sockets (Schuko Type) - 6 Modules 16A - 250V~	45196 S	BR VM
 Block of Three Earth Sockets (Schuko Type) - 6 Modules 16A - 250V~	45194 S	BR VM
 Block of Three Safety Earth Sockets (French Type) - 6 Modules 16A - 250V~	45197 S	BR VM
 Block of Three Earth Sockets (French Type) - 6 Modules 16A - 250V~	45195 S	BR VM

QUADRO 45 - Siza Vieira

	SV Single Frame		SV Double Frame		SV Triple Frame		SV Four-Gang Frame	
	Ref.	Color	Ref.	Color	Ref.	Color	Ref.	Color
	45911 T	BR BM PM AL	45921 T	BR BM PM AL	45931 T	BR BM PM AL	45941 T	BR BM PM AL

Note: Single, Double, Triple and Four-Gang Frames are assembled with **Adapter Q45 for Flush Mounting Devices** (Ref. 45993) - page 68. [See Frame Dimensions - page 155.](#)

QUADRO 45

	Single Frame		Double Frame		Triple Frame		Four-Gang Frame	
	Ref.	Color	Ref.	Color	Ref.	Color	Ref.	Color
	45910 T	BR BM PM AL	45920 T	BR BM PM AL	45930 T	BR BM PM AL	45940 T	BR BM PM AL

Note: Single, Double, Triple and Four-Gang Frames are assembled with **Adapter Q45 for Flush Mounting Devices** (Ref. 45993) - page 68. [See Frame Dimensions - page 155.](#)

MOUNTING ACCESSORIES FOR 10 SERIES - DISTRIBUTION AND 16 SERIES CABLE TRUNKINGS

	Ref.	Color
 Q45 Complete Modular Adapter for Trunkings with 75mm Covers - 2 Modules ■ For Series 10 - Distribution.	10950 A	BR
 Additional Module for Q45 Adapter for Trunkings with 75mm Covers -2 Modules	10959 A	
 Q45 Adapter for Trunkings with 60/75mm Covers - 2 Modules ■ For Series 10 - Distribution.	10986 A	BR
 Q45 Adapter for Trunkings with 75mm Covers - 4 Modules ■ For Series 10 - Distribution.	10952 A	
 Q45 Adapter for Trunkings with 75mm Covers - 6 Modules ■ For Series 10 - Distribution.	10954 A	

MOUNTING ACCESSORIES FOR 10 SERIES - DISTRIBUTION AND 16 SERIES CABLE TRUNKINGS

	Ref.	Color
 Flush Mounting Box ■ For trunkings of L75 covers.	10984 A	BR
 Semi-Flush Mounting Box ■ For trunkings of L75 covers.	10985 A	BR

SURFACE MOUNTING ACCESSORIES FOR 10 SERIES - MINI CABLE TRUNKINGS

	Ref.	Color
 Surface Modular Mounting Box NEW	45996 A	BR
 Additional Module for Surface Modular Mounting Box ■ Supplied with divider 10982 A. NEW	45997 A	BR
 Divider for Surface Modular Mounting Box NEW	10982 A	—

LATERAL ADAPTERS

 Q45 Lateral Adapter for 12x7 Trunking	10961 A	BR
 Q45 Lateral Adapter for 16x10 Trunking	10962 A	
 Q45 Lateral Adapter for 20x12,5 Trunking	10963 A	
 Q45 Lateral Adapter for 32x16 Trunking	10964 A	
 Q45 Lateral Adapter for 40x12,5 Trunking	10965 A	
 Q45 Lateral Adapter for 40x16 Trunking	10966 A	
 Q45 Lateral Adapter for 60x16 Trunking	10967 A	
 Q45 Lateral Adapter for 75x20 Trunking	10968 A	

FRONTAL ADAPTERS

 Q45 Frontal Adapter for 60x16 Trunking ■ For Series 10 Cable Trunkings (Ref. 10070 CBR).	10988 A	BR
 Q45 Frontal Adapter for 75x20 Trunking ■ For Series 10 Cable Trunkings (Ref. 10140 CBR).	10989 A	

OTHER ACCESSORIES

		Ref.	Color
	IP65 48 Series Box with Cover for Quadro 45 Series ■ Enables the installation of Quadro 45 Series mechanisms on waterproof 48 Series IP65 (except motion detectors and R - TV - SAT sockets).	48998 C	CZ BR
	Adapter for Q45 Modules to PANELBOARDS	45990 A	BR
	Cover for mechanisms protection - 2 Modules NEW	45998	—
	Adapter Q45 for Flush Mounting Devices	45993	—
	Blind Cover Plate - 2 Modules	45677 S	BR MF AT GE PE AL IS DU BM PM GR PR PL CH
	Blind Cover Plate - 1 Module	45973 S	BR MF AT GE PE AL IS DU BM PM GR PR PL CH
	Blocking Pin for Q45 Series Sockets	45991	—
	90° Positioner for 2 Modules ■ For semi-assembled devices of QUADRO 45 Series in Desktop Workstations and Columns. ■ Enables device assembly with 90° rotation.	45992	—
	Automatic Relay for Blinds Control ■ Rated voltage: 230V~ – 50Hz. ■ Breaking capacity: 6A. ■ Not temporized. ■ Connect to the Double Push-buttons and to the Venetian Double Push-buttons. See Technical Data Sheet - page 162.	81512	—
	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 162.	81511	—
	Infrared Remote Control Transmitter Multifunctions ■ To control the Thermostat with Infrared Remote Control. ■ To control Blinds Control Modules with Infrared Remote Control. ■ To control the Surrounding Sound System. ■ It works with CR 2032 batteries, not included.	81900	—

■ A - Accessory; C - Complete Device; S - Semi-assembled.

■ BR - White; MF - Ivory; CZ - Grey; GE - Ice; PE - Pearl; AL - Aluminium; IS - Gray; AT - Anthracite; PR - Silver; GR - Graphite; PL - Platinum; CH - Champagne; BM - White Matt; PM - Black Matt; DU - Golden.

COMPLETE DEVICES

MODULAR PRE-CABLED DOUBLE AND TRIPLE MONOBLOCK SOCKETS FOR TRUNKINGS WITH COVERS OF 75MM WIDTH (L75)

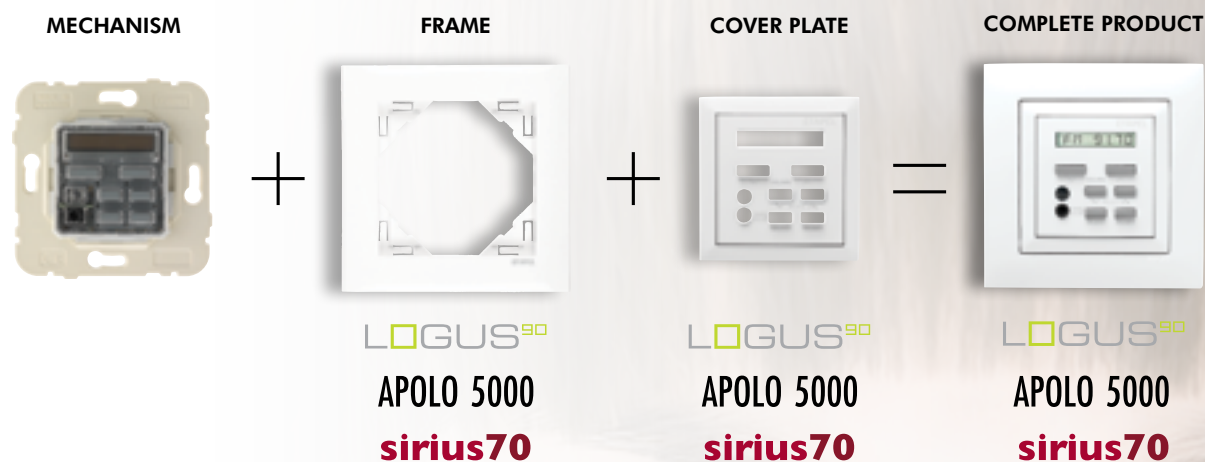
	Ref.	Color
 Block of Two Safety Modular Earth Sockets (Schuko Type) L75 - 4 Modules 16A - 250V~	45240 C	BR VM
 Block of Two Modular Earth Sockets (Schuko Type) L75 - 4 Modules 16A - 250V~	45241 C	
 Block of Two Safety Modular Earth Sockets (French Type) L75 - 4 Modules 16A - 250V~	45246 C	BR VM
 Block of Three Safety Modular Earth Sockets (Schuko Type) L75 - 6 Modules 16A - 250V~	45242 C	BR VM
 Block of Three Modular Earth Sockets (Schuko Type) L75 - 6 Modules 16A - 250V~	45243 C	
 Block of Three Safety Modular Earth Sockets (French Type) L75 - 6 Modules 16A - 250V~	45247 C	BR VM

QUADRO 45

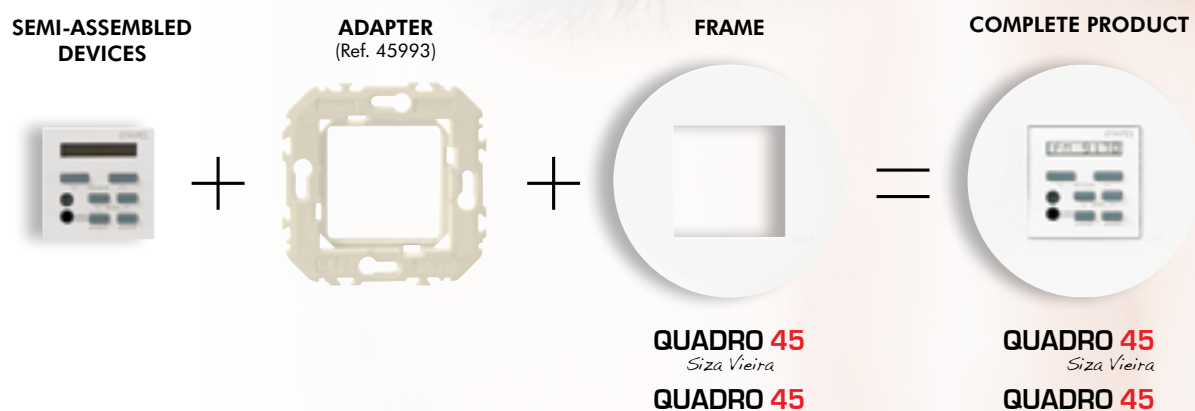
PRE-CABLED DOUBLE AND TRIPLE MONOBLOCK SOCKETS FOR TRUNKINGS WITH COVERS OF 75MM WIDTH (L75)

	Ref.	Color
 Block of Two Safety Earth Sockets (Schuko Type) L75 - 4 Modules 16A - 250V~	45262 C	BR VM
 Block of Two Earth Sockets (Schuko Type) L75 - 4 Modules 16A - 250V~	45260 C	
 Block of Two Safety Earth Sockets (French Type) L75 - 4 Modules 16A - 250V~	45263 C	BR VM
 Block of Two Earth Sockets (French Type) L75 - 4 Modules 16A - 250V~	45261 C	
 Block of Three Safety Earth Sockets (Schuko Type) L75 - 6 Modules 16A - 250V~	45266 C	BR VM
 Block of Three Earth Sockets (Schuko Type) L75 - 6 Modules 16A - 250V~	45264 C	
 Block of Three Safety Earth Sockets (French Type) L75 - 6 Modules 16A - 250V~	45267 C	BR VM
 Block of Three Earth Sockets (French Type) L75 - 6 Modules 16A - 250V~	45265 C	

■ MOUNTING - WITH THE **mec21** SERIES MECHANISMS



■ MOUNTING - WITH THE **QUADRO 45** SERIES SEMI-ASSEMBLED DEVICES



■ Installation Selection - page 172.

■ See Technical Data Sheets - page 172-183.



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The company of music or news in any room of your home is undoubtedly synonymous of comfort.

The Jazz Light Series allows you to create the most suitable environment in different areas of your home.

POWER SUPPLIES		COVER PLATES		
	Ref.		Ref.	Color
 Power Supply Module 15V 5W ■ Input: 110/240V~ - 50/60Hz. ■ Output: 15V - 5W - 0,33A. ■ Capacity to supply 1 Mono or Stereo Sound Control Unit.	21380		90670 T	BR MF GE PE AL IS PM DU
			50670 T	BR MF PT BM PM PR GR PL CH
			70670 T	BR MF AT
 Power Supply Module 15V 5W - 2 Modules ■ Input: 110/240V~ - 50/60Hz. ■ Output: 15V - 5W - 0,33A. ■ Capacity to supply 1 Mono or Stereo Sound Control Unit.			45380 S	BR BM PM AL
 Power Supply 15V 30W for DIN Rail Mounting ■ Input: 110/240V~ - 50/60Hz. ■ Output: 15V - 30W - 2A. ■ Capacity to supply 10 Stereo Sound Control Units or 20 Mono Sound Control Units. ■ Size: 4,5 DIN Modules.			75052	—
 Power Supply 15V 12W for Installation in Hollow Ceilings ■ Input: 110/240V~ - 50/60Hz. ■ Output: 15V - 12W - 0,8A. ■ 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	—
MODULAR SOUND CENTRAL UNITS		COVER PLATES		
	Ref.		Ref.	Color
 1 Stereo Channel Modular Sound Central Unit with FM Tuner ■ Can receive an external source, to transform and send the audio signal to the Sound Control Units of the entire installation. ■ Compatible with Mono and Stereo Sound Control Units. ■ With FM radio tuner.	21392		90852 T	BR MF GE PE AL IS PM DU
			50852 T	BR MF PT BM PM PR GR PL CH
			70852 T	BR MF AT
 1 Stereo Channel Modular Sound Central Unit with FM Tuner - 2 Modules ■ Can receive an external source, to transform and send the audio signal to the Sound Control Units of the entire installation. ■ Compatible with Mono and Stereo Sound Control Units. ■ With FM radio tuner.			45392 S	BR BM PM AL
 1 Stereo Channel Modular Sound Central Unit ■ Can receive an external source, to transform and send the audio signal to the Sound Control Units of the entire installation. ■ Compatible with Mono and Stereo Sound Control Units.	21391		90851 T	BR MF GE PE AL IS PM DU
			50851 T	BR MF PT BM PM PR GR PL CH
			70851 T	BR MF AT
 1 Stereo Channel Modular Sound Central Unit - 2 Modules ■ Can receive an external source, to transform and send the audio signal to the Sound Control Units of the entire installation. ■ Compatible with Mono and Stereo Sound Control Units.			45391 S	BR BM PM AL

■ T - Rocker, Cover Plate or Frame; S - Semi-assembled.
 ■ BR - White; MF - Ivory; GE - Ice; PE - Pearl; AL - Aluminium; IS - Gray; BM - White Matt; PM - Black Matt; DU - Golden; AT - Anthracite; PT - Black; PR - Silver; GR - Graphite; PL - Platinum; CH - Champagne.
 ■ Frames of LOGUS 90 Series - page 6 | APOLO 5000 Series - page 24 | Sirius 70 Series - page 40.
 ■ Frames of QUADRO 45 Series - page 57 | QUADRO 45 Series- design Siza Vieira - page 57.

SOUND CONTROL UNITS		COVER PLATES		
	Ref.		Ref.	Color
 1 Stereo Channel Sound Control Unit with FM Tuner, Alarm Clock and Infrared Remote Control ■ Can receive the audio signal from the Modular Sound Central Unit, to amplify the audio signal and to distribute it to the Loudspeakers. ■ With FM radio tuner. ■ Audio input through 3,5mm Jack. ■ Alarm clock. ■ Programmable timer up to 90 min. ■ Infrared Remote Control. ■ Output impedance 32 Ohm (2 Outputs).	21370	   Cover Plate for 1 Stereo Channel Sound Control Unit with FM Tuner, Alarm Clock and Infrared Remote Control	90715 T 50715 T 70715 T	BR MF GE PE AL IS PM DU BR MF PT BM PM PR GR PL CH BR MF AT
 1 Stereo Channel Sound Control Unit with FM Tuner, Alarm Clock and Infrared Remote Control - 2 Modules ■ Can receive the audio signal from the Modular Sound Central Unit, to amplify the audio signal and to distribute it to the Loudspeakers. ■ With FM radio tuner. ■ Audio input through 3,5mm Jack. ■ Alarm clock. ■ Programmable timer up to 90 min. ■ Infrared Remote Control. ■ Output impedance 32 Ohm (2 Outputs).			45370 S	BR BM PM AL
 1 Stereo Channel Sound Control Unit with FM Tuner and Alarm Clock ■ Can receive the audio signal from the Modular Sound Central Unit, to amplify the audio signal and to distribute it to the Loudspeakers. ■ With FM radio tuner. ■ Audio input through 3,5mm Jack. ■ Alarm clock. ■ Programmable timer up to 90 min. ■ Headphones output. ■ Output impedance 32 Ohm (2 Outputs).	21379	   Cover Plate for 1 Stereo Channel Sound Control Unit with FM Tuner and Alarm Clock	90709 T 50709 T 70709 T	BR MF GE PE AL IS PM DU BR MF PT BM PM PR GR PL CH BR MF AT
 1 Stereo Channel Sound Control Unit with FM Tuner and Alarm Clock - 2 Modules ■ Can receive the audio signal from the Modular Sound Central Unit, to amplify the audio signal and to distribute it to the Loudspeakers. ■ With FM radio tuner. ■ Audio input through 3,5mm Jack. ■ Alarm clock. ■ Programmable timer up to 90 min. ■ Headphones output. ■ Output impedance 32 Ohm (2 Outputs).			45379 S	BR BM PM AL
 1 Stereo Channel Sound Control Unit with FM Tuner ■ Can receive the audio signal from the Modular Sound Central Unit, to amplify the audio signal and to distribute it to the Loudspeakers. ■ With FM radio tuner. ■ Audio input through 3,5mm Jack. ■ Programmable timer up to 90 min. ■ Headphones output. ■ Output impedance 32 Ohm (2 Outputs).	21377	   Cover Plate for 1 Stereo Channel Sound Control Unit with FM Tuner	90707 T 50707 T 70707 T	BR MF GE PE AL IS PM DU BR MF PT BM PM PR GR PL CH BR MF AT
 1 Stereo Channel Sound Control Unit with FM Tuner - 2 Modules ■ Can receive the audio signal from the Modular Sound Central Unit, to amplify the audio signal and to distribute it to the Loudspeakers. ■ With FM radio tuner. ■ Audio input through 3,5mm Jack. ■ Programmable timer up to 90 min. ■ Headphones output. ■ Output impedance 32 Ohm (2 Outputs).			45377 S	BR BM PM AL
 1 Mono Channel Sound Control Unit with FM Tuner ■ Can receive the audio signal from the Modular Sound Central Unit, to amplify the audio signal and to distribute it to the Loudspeakers. ■ With FM radio tuner. ■ Programmable timer up to 90 min. ■ Output impedance 32 Ohm (1 Output).	21373	   Cover Plate for 1 Mono Channel Sound Control Unit with FM Tuner	90703 T 50703 T 70703 T	BR MF GE PE AL IS PM DU BR MF PT BM PM PR GR PL CH BR MF AT
 1 Mono Channel Sound Control Unit with FM Tuner - 2 Modules ■ Can receive the audio signal from the Modular Sound Central Unit, to amplify the audio signal and to distribute it to the Loudspeakers. ■ With FM radio tuner. ■ Programmable timer up to 90 min. ■ Output impedance 32 Ohm (1 Output).			45373 S	BR BM PM AL

■ T - Rocker, Cover Plate or Frame; S - Semi-assembled.

■ BR - White; MF - Ivory; GE - Ice; PE - Pearl; AL - Aluminium; IS - Gray; BM - White Matt; PM - Black Matt; DU - Golden; AT - Anthracite; PT - Black; PR - Silver; GR - Graphite; PL - Platinum; CH - Champagne.

■ Frames of LOGUS 90 Series - page 6 | APOLO 5000 Series - page 24 | Sirius 70 Series - page 40.
■ Frames of QUADRO 45 Series - page 57 | QUADRO 45 Series- design Siza Vieira - page 57.

SOUND CONTROL UNITS		COVER PLATES		
	Ref.		Ref.	Color
 1 Stereo Channel Sound Control Unit ■ Can receive the audio signal from the Modular Sound Central Unit, to amplify the audio signal and to distribute it to the Loudspeakers. ■ Audio input through 3,5mm Jack. ■ Programmable timer up to 90 min. ■ Headphones output. ■ Output impedance 32 Ohm (2 Outputs).	21372	   Cover Plate 1 Stereo Channel Sound Control Unit	90702 T 50702 T 70702 T	BR MF GE PE AL IS PM DU BR MF PT BM PM PR GR PL CH BR MF AT
 1 Stereo Channel Sound Control Unit - 2 Modules ■ Can receive the audio signal from the Modular Sound Central Unit, to amplify the audio signal and to distribute it to the Loudspeakers. ■ Audio input through 3,5mm Jack. ■ Programmable timer up to 90 min. ■ Headphones output. ■ Output impedance 32 Ohm (2 Outputs).			45372 S	BR BM PM AL
 1 Mono Channel Sound Control Unit ■ Can receive the audio signal from the Modular Sound Central Unit, to amplify the audio signal and to distribute it to the Loudspeakers. ■ Programmable timer up to 90 min. ■ Output impedance 32 Ohm (1 Output).	21371	   Cover Plate for 1 Mono Channel Sound Control Unit	90700 T 50700 T 70700 T	BR MF GE PE AL IS PM DU BR MF PT BM PM PR GR PL CH BR MF AT
 1 Mono Channel Sound Control Unit - 2 Modules ■ Can receive the audio signal from the Modular Sound Central Unit, to amplify the audio signal and to distribute it to the Loudspeakers. ■ Programmable timer up to 90 min. ■ Output impedance 32 Ohm (1 Output).			45371 S	BR BM PM AL

FLUSH MOUNTING LOUDSPEAKERS OF 2"		COVER PLATES		
	Ref.		Ref.	Color
 Loudspeaker of 2" - 32 Ohm ■ Maximum power: 10W. ■ Frequency response: 450 - 5000Hz.	21581	   Cover Plate for Loudspeaker of 2" - 32 Ohm / Buzzer	90710 T 50710 T 70710 T	BR MF GE PE AL IS PM DU BR MF PT BM PM PR GR PL CH BR MF AT

FLUSH MOUNTING LOUDSPEAKERS OF 5" 6,5"				
			Ref.	Color
 Loudspeaker of 5" - 32 Ohm for Ceiling Mounting ■ External dimensions (mm): ø 180. ■ Maximum power: 30W. ■ Frequency response: 70 - 15000Hz.			75023 C	BR MF
 Loudspeaker of 5" - 16 Ohm for Ceiling Mounting ■ External dimensions (mm): ø 180. ■ Maximum power: 30W. ■ Frequency response: 70 - 15000Hz.			75022 C	BR MF
 Loudspeaker of 5" - 8 Ohm for Ceiling Mounting ■ External dimensions (mm): ø 180. ■ Maximum power: 30W. ■ Frequency response: 70 - 15000Hz.			75021 C	BR MF

- T - Rocker, Cover Plate or Frame; S - Semi-assembled.
- BR - White; MF - Ivory; GE - Ice; PE - Pearl; AL - Aluminium; IS - Gray; BM - White Matt; PM - Black Matt; DU - Golden; AT - Anthracite; PT - Black; PR - Silver; GR - Graphite; PL - Platinum; CH - Champagne.
- Frames of LOGUS 90 Series - page 6 | APOLO 5000 Series - page 24 | Sirius 70 Series - page 40.
- Frames of QUADRO 45 Series - page 57 | QUADRO 45 Series- design Siza Vieira - page 57.

FLUSH MOUNTING LOUDSPEAKERS OF 5" | 6,5"

	Ref.	Color
 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
 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
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

SURFACE MOUNTING LOUDSPEAKERS OF 5"

	Ref.	Color
 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
 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
 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

ACCESSORIES

	Ref.	Color
 Adapter Q45 for Flush Mounting Devices	45993	—
 Stereo / Mono Amplifier ■ Output power: Stereo: 12W + 12W (4 or 8 Ohm); Mono: 12W (4 or 8 Ohm). ■ Rated voltage: 15V$\overline{=}$. ■ Function: Stand by. ■ Possible to mount on the Flush Mounting Deep Ceiling Box for Loudspeaker of 5" and Stereo/Mono Amplifier (Ref. 75984) ■ Amplifies the audio signal coming from a Sound Control Unit allowing connecting from 8 to 16 Loudspeakers to a Mono Sound Control Unit and from 10 to 16 Loudspeakers to a Stereo Sound Control Unit.	75032	—
 Flush Mounting Ceiling Box for Loudspeaker of 5" ■ External dimensions (mm): $\varnothing$ 165, P=64.	75983	—
 Flush Mounting Deep Ceiling Box for Loudspeaker of 5" and Stereo/Mono Amplifier ■ External dimensions (mm): $\varnothing$ 165, P=92.	75984	—
 Flush Mounting Box for Squared Grid 2-Way Loudspeakers ■ External dimensions (mm): 227,8 x 227,8 x 119.	75986	—
 Pre-installation Blind Cover for 5" Loudspeaker ■ External dimensions (mm): $\varnothing$ 173. ■ To be used with Boxes Ref. 75983 and Ref. 75984.	75999 A	BR
 Infrared Multifunctions Remote Control ■ To control the Thermostat. ■ To control Blinds Control Modules. ■ To control the Surrounding Sound System. ■ It works with CR 2032 batteries, not included.	81900	—

WATERPROOF 48

IP65

IK07

16A



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The 48 WATERPROOF Series ensures a IP65 protection degree in electrical installations in wet and dusty spaces.

Manufactured in technical thermoplastic (shock resistant), the 48 WATERPROOF Series is the best solution for installations in garages, gardens, swimming pools, industrial spaces....

CONTROL DEVICES

	Ref.	Color
 Single Pole Switch 16AX - 250V~	48011 C	CZ BR
 Single Pole Switch with Orienting Light 16AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking. ■ Replacement LED - page 79.	48012 C	CZ BR
 Single Pole Switch with Pilot Lamp 16AX - 250V~ ■ Replacement LED - page 79.	48013 C	CZ BR
 Two-pole Switch 16AX - 250V~	48021 C	
 Two-pole Switch with Pilot Lamp 16AX - 250V~ ■ Replacement LED - page 79.	48023 C	CZ BR
 Two Pole Switch with Pilot Lamp and Printing "HEIZUNG NOTSCHALTER" 16AX - 250V~ ■ Replacement LED - page 79.	48027 C	
 Two Circuits Switch 16AX - 250V~	48061 C	CZ BR
 Two-way Switch 16AX - 250V~	48071 C	
 Two-way Switch with Orienting Light 16AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking. ■ Replacement LED - page 79.	48072 C	CZ BR
 Two-way Switch with Pilot Lamp 16AX - 250V~ ■ Replacement LED - page 79.	48073 C	
 Double Two-way Switch 16AX - 250V~	48101 C	CZ BR
 Intermediate Switch 16AX - 250V~	48051 C	
 Intermediate Switch with Orienting Light 16AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking. ■ Replacement LED - page 79.	48052 C	CZ BR

CONTROL DEVICES

	Ref.	Color
 Rocker Push-button 16A - 250V~	48151 C	CZ BR
 Rocker Push-button with Orienting Light - 250V~ 16A - 250V~ ■ Replacement LED - page 79.	48152 C	
 Rocker Push-button with Orienting Light - 12V 6A - 12V ■ Replacement LED - page 79.	48162 C	
 Venetian Switch 16A - 250V~ ■ Switch function. ■ Electrical and mechanical blockade against two occasional simultaneous orders. ■ Toggles automatically one rocker when the other is pressed.	48290 C	CZ BR
 Venetian Double Push-button 16A - 250V~ ■ Push-button function. ■ Electrical blockade against two occasional simultaneous orders.	48281 C	CZ BR
 Venetian Double Push-button for multiple points Blinds Control 16A - 250V~ ■ Push-button function. ■ Electrical blockade against two occasional simultaneous orders. ■ It allows to control a blind from several points.	48283 C	

ENERGY SOCKETS

	Ref.	Color
 Safety Earth Socket (Schuko Type) 16A - 250V~	48132 C	CZ BR
 Earth Socket (Schuko Type) 16A - 250V~	48131 C	
 Safety Earth Socket (French Type) 16A - 250V~	48112 C	CZ BR
 Safety Single Phase Socket 16A - 250V~	48122 C	CZ BR
 Two Safety Earth Sockets (Schuko Type) in a Double Horizontal Base 16A - 250V~	48865 C	CZ BR
 Two Earth Sockets (Schuko Type) in a Double Horizontal Base 16A - 250V~	48862 C	
 Two Safety Earth Sockets (French Type) in a Double Horizontal Base 16A - 250V~	48867 C	CZ BR

See Technical Data Sheet - page 184.

■ C - Complete Device.
■ CZ - Grey; BR - White.

ENERGY SOCKETS

	Ref.	Color
 Two Safety Earth Sockets (Schuko Type) in a Double Vertical Base 16A - 250V~	48860 C	CZ BR
 Two Earth Sockets (Schuko Type) in a Double Vertical Base 16A - 250V~	48868 C	
 Two-way Switch + Safety Earth Socket (Schuko Type) in a Double Vertical Base 16A - 250V~	48866 C	CZ BR
 Two-way Switch + Earth Socket (Schuko Type) in a Double Vertical Base 16A - 250V~	48861 C	

OTHER PRODUCTS

	Ref.	Color
 48 Series Box with Cover for QUADRO 45 Series ■ Enables the installation of Quadro 45 Series mechanisms on waterproof 48 Series IP65 (except motion detectors and R - TV - SAT sockets).	48998 C	CZ BR
 Pilot Light (High Height) Max. 5W / 250V~ (E14) ■ To be used with Lamp (Ref.81011) - page 138. ■ To be used with Lamp (Ref.81013) - page 138.	48361 C	ZI ZR ZV ZM BI BJ BV BM
 Pilot Light (Low Height) Max. 5W / 250V~ (E14) ■ To be used with Lamp (Ref.81012) - page 138. ■ To be used with Lamp (Ref.81013) - page 138.	48362 C	
 Box for Push-button Devices of ø22mm ■ The Protection Degree of the Box is determined by the device to be installed inside.	48992 A	CZ BR
 Double Horizontal Base	48994 A	CZ BR
 Double Vertical Base	48995 A	
 Replacement LED for MEC 21 / 48 Series - 250V~	81019	—
 Replacement LED for MEC 21 / 48 Series - 12V	81018	—

See Technical Data Sheet - page 184.

■ C - Complete Device; A - Accessory.

■ CZ - Grey; BR - White.

■ Pilot Lights: ZI - Grey/Colorless; ZR - Grey/Orange; ZV - Grey/Green; ZM - Grey/Red; BI - White/Colorless; BJ - White/Orange; BV - White/Green; BM - White/Red.

2600



The 2600 Series takes us into the past, bringing back the vintage trend.

Easy to assemble, the 2600 Series is the ideal product to surface mounting installations and house remodeling.



CONTROL DEVICES		
	Ref.	Color
 Single Pole Switch 10AX - 250V~	26011 C	MF
 Two-pole Switch 10AX - 250V~	26021 C	MF
 Two Circuits Switch 10AX - 250V~	26061 C	MF
 Two-way Switch 10AX - 250V~	26071 C	MF
 Double Two-way Switch 10AX - 250V~	26101 C	MF
 Intermediate Switch 10AX - 250V~	26051 C	MF
 Push-button Switch 2A - 250V~	26157 C	MF
 Push-button Switch with Orienting Light - 250V~ 2A - 250V~	26158 C	MF

2600

ENERGY SOCKETS		
	Ref.	Color
 Safety Earth Socket (Schuko Type) 16A - 250V~	26132 C	MF
 Earth Socket (Schuko Type) 16A - 250V~	26131 C	MF
 Safety Single Phase Socket 16A - 250V~	26122 C	MF
 Single Phase Socket 16A - 250V~	26121 C	MF



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With a discreet design, the 3700 Series is presented as a versatile option for installations in professional or public spaces (shops, offices, schools, ...).

To be used in surface mounting installations and in installations with the 10 Series - Cable Trunkings for Electrical and Telecommunications Installations.

CONTROL DEVICES

	Ref.	Color
 Single Pole Switch 10AX - 250V~	37011 C	BR
 Single Pole Switch with Orienting Light 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.	37012 C	BR
 Single Pole Switch with Pilot Lamp 10AX - 250V~	37013 C	BR
 Two Circuits Switch 10AX - 250V~	37061 C	BR
 Two-way Switch 10AX - 250V~	37071 C	BR
 Two-way Switch with Orienting Light 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.	37072 C	
 Two-way Switch with Pilot Lamp 10AX - 250V~	37073 C	
 Double Two-way Switch 10AX - 250V~	37101 C	
 Intermediate Switch 10AX - 250V~	37051 C	BR
 Rocker Push-button Switch 10A - 250V~	37151 C	BR
 Rocker Push-button Switch with Orienting Light 10A - 250V~	37152 C	
 Push-button Switch 2A - 250V~	37157 C	BR
 Push-button Switch with Orienting Light - 250V~ 2A - 250V~	37158 C	
 Push-button Switch with Orienting Light - 12V 6A - 12V	37168 C	
 Venetian Switch 10A - 250V~ ■ Switch function. ■ Electrical and mechanical blockade against two occasional simultaneous orders. ■ Toggles automatically one rocker when the other is pressed.	37290 C	BR
 Venetian Double Push-button 10A - 250V~ ■ Push-button function. ■ Electrical blockade against two occasional simultaneous orders.	37281 C	BR

DATA SOCKETS

		Ref.	Color
	RJ45 Cat. 6 UTP Socket	37455 C	BR
	RJ45 Cat. 6 STP Socket	37445 C	
	RJ45 Cat. 5e UTP Socket	37453 C	
	RJ45 Cat. 5e STP Socket	37443 C	

TELEPHONE SOCKETS

		Ref.	Color
50V --- 70V~			
	Telephone Socket (4 conductors)	37252 C	BR
	Telephone Socket with Gel (4 conductors)	37255 C	
8 contacts			
	T8 French Telephone Socket	37411 C	BR

RADIO, TELEVISION AND SATELLITE SOCKETS

		Ref.	Color
RADIO AND TELEVISION			
	R - TV Socket - Star Connection ■ Coaxial connector ø 9,5. ■ 4 - 862 MHz: ≤ 1dB. See Technical Data Sheet - page 190.	37531 C	BR
	R - TV Socket - Passage ■ Coaxial connector ø 9,5. ■ 4 - 862 MHz: ≤ 6dB. ■ Insertion losses: ≤ 2dB. See Technical Data Sheet - page 190.	37532 C	
RADIO, TELEVISION AND SATELLITE			
	R TV - SAT Socket for Star Connection ■ Coaxial connector ø 9,5. ■ 4 - 470 MHz: ≤ 1dB. ■ 470 - 862 MHz: ≤ 3dB. ■ 950 - 2400 MHz: ≤ 6dB. ■ Current flow: 500mA (DC). See Technical Data Sheet - page 190.	37550 C	BR
	Coaxial F Computer Socket	37431 C	BR

ENERGY SOCKETS

		Ref.	Color
	Safety Earth Socket (Schuko) with Screwless Terminals 16A - 250V~ FEB. 2019	37133 C	BR LR VM
	Earth Socket (Schuko Type) with Screwless Terminals 16A - 250V~ FEB. 2019	37130 C	

[See Technical Data Sheet - page 187.](#)

■ C - Complete Device.
 ■ BR - White; LR - Orange; VM - Red.

ENERGY SOCKETS

		Ref.	Color
	Safety Earth Socket (Schuko Type) 16A - 250V~	37132 C	BR LR VM
	Earth Socket (Schuko Type) 16A - 250V~	37131 C	
	Safety Single Phase Socket 16A - 250V~	37122 C	BR
	Single Phase Socket 16A - 250V~	37121 C	
	Safety Earth Socket (French type) with Screwless Terminals FEB. 2019 16A - 250V~	37113 C	BR
	Safety Earth Socket (French Type) 16A - 250V~	37112 C	
	Earth Socket (French Type) 16A - 250V~	37111 C	

OTHER PRODUCTS

		Ref.	Color
	Wall Rose ■ Without connectors.	37170 C	BR
	Junction Box ■ 4x2,5mm ² .	37201 C	BR
	Pilot Light ■ Max. 5W / 250V~ (E14). ■ To be used with Lamp (Ref.81012) - page 138. ■ To be used with Lamp (Ref.81013) - page 138.	37360 C	BI BJ BV BM

MOUNTING ACCESSORIES FOR 10 SERIES - MINI AND SKIRT CABLE TRUNKINGS

		Ref.	Color
	3700 Series Adapter for 12x7 Trunking	10017 A	BR
	3700 Series Adapter for 16x10 Trunking	10027 A	
	3700 Series Adapter for 20x12,5 Trunking	10037 A	
	3700 Series Adapter for 32x16 Trunking	10047 A	
	3700 Series Adapter for 40x12,5 Trunking	10057 A	
	3700 Series Adapter for 40x16 Trunking	10067 A	
	3700 Series Adapter for 60x16 Trunking	10077 A	BR
	3700 Series Adapter for 110x20 Skirt Trunking	10107 A	
	3700 Series Adapter for 75x20 Trunking	10147 A	



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The 47 Series was designed to be used in surface mounting electrical installations and with the 10 Series - Cable Trunkings for Electrical and Telecommunications Installations.

The 47 Series is the versatile solution to residential spaces, offices, schools, ...

CONTROL DEVICES (SEMI-ASSEMBLED WITH FRAME AND ROCKER)

	Ref.	Color
 Single Pole Switch 10AX - 250V~	47011 S	BR
 Single Pole Switch with Orienting Light 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.	47012 S	BR
 Single Pole Switch with Pilot Lamp 10AX - 250V~	47013 S	BR
 Two Circuits Switch 10AX - 250V~	47061 S	BR
 Two-way Switch 10AX - 250V~	47071 S	BR
 Two-way Switch with Orienting Light 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.	47072 S	
 Two-way Switch with Pilot Lamp 10AX - 250V~	47073 S	
 Double Two-way Switch 10AX - 250V~	47101 S	
 Intermediate Switch 10AX - 250V~	47051 S	BR
 Intermediate Switch with Orienting Light 10AX - 250V~ ■ To control electronic energy-saving lamps, we recommend the use of capacitors of 0,15μF 275V~ connected in parallel with the load to avoid the lamp blinking.	47052 S	BR
 Rocker Push-button 10A - 250V~	47151 S	BR
 Rocker Push-button with Orienting Light - 250V~ 10A - 250V~	47152 S	
 Rocker Push-button Switch with Identification - 250V~ 10A - 250V~	47155 S	
 Venetian Switch 10A - 250V~ ■ Switch function. ■ Electrical and mechanical blockade against two occasional simultaneous orders. ■ Toggles automatically one rocker when the other is pressed.	47290 S	BR
 Venetian Double Push-button 10A - 250V~ ■ Push-button function. ■ Electrical blockade against two occasional simultaneous orders.	47281 S	BR

DATA SOCKETS (SEMI-ASSEMBLED WITH FRAME AND ROCKER)

	Ref.	Color
 RJ45 Cat. 6 UTP Socket	47455 S	BR
 RJ45 Cat. 6 STP Socket	47445 S	

DATA SOCKETS (SEMI-ASSEMBLED WITH FRAME AND ROCKER)

		Ref.	Color
	RJ45 Cat. 5e UTP Socket	47453 S	BR
	RJ45 Cat. 5e STP Socket	47443 S	

TELEPHONE SOCKETS (SEMI-ASSEMBLED WITH FRAME AND ROCKER)

		Ref.	Color
50V ~ 70V~ 	Telephone Socket (4 conductors)	47252 S	BR
8 contacts 	T8 French Telephone Socket	47411 S	BR

RADIO, TELEVISION AND SATELLITE SOCKETS (SEMI-ASSEMBLED WITH FRAME AND ROCKER)

		Ref.	Color
RADIO AND TELEVISION			
	R - TV Socket - Star Connection ■ Coaxial connector ø 9,5. ■ 4 - 862 MHz: ≤ 1dB. See Technical Data Sheet - page 190.	47531 S	BR
	R - TV Socket - Passage ■ Coaxial connector ø 9,5. ■ 4 - 862 MHz: ≤ 6dB. ■ Insertion losses: ≤ 2dB. See Technical Data Sheet - page 190.	47532 S	
RADIO, TELEVISION AND SATELLITE			
	R TV - SAT Socket for Star Connection ■ Coaxial connector ø 9,5. ■ 4 - 470 MHz: ≤ 1dB. ■ 470 - 862 MHz: ≤ 3dB. ■ 950 - 2400 MHz: ≤ 6dB. ■ Current flow: 500mA (DC). See Technical Data Sheet - page 190.	47550 S	BR
	Coaxial F Computer Socket	47431 S	BR

ENERGY SOCKETS (SEMI-ASSEMBLED WITH FRAME AND ROCKER)

		Ref.	Color
	Safety Earth Socket (Schuko) with Screwless Terminals 16A - 250V~ FEB. 2019	47133 S	BR LR VM
	Earth Socket (Schuko Type) with Screwless Terminals 16A - 250V~ FEB. 2019	47130 S	
	Safety Earth Socket (Schuko Type) 16A - 250V~	47132 S	BR LR VM
	Earth Socket (Schuko Type) 16A - 250V~	47131 S	

■ See Technical Data Sheet - page 188.

■ S - Semi-assembled.
 ■ BR - White; LR - Orange; VM - Red.

ENERGY SOCKETS (SEMI-ASSEMBLED WITH FRAME AND ROCKER)

	Ref.	Color
 Safety Single Phase Socket 16A - 250V~	47122 S	BR
 Single Phase Socket 16A - 250V~	47121 S	
 Safety Earth Socket (French type) with Screwless Terminals FEB. 2019 16A - 250V~	47113 S	BR
 Safety Earth Socket (French Type) 16A - 250V~	47112 S	

OTHER PRODUCTS

	Ref.	Color
 Wall Rose ■ Without connectors.	47170 S	BR
 Junction Box ■ 4x2,5mm ² .	47201 S	BR
 Pilot Light ■ Max. 5W / 250V~ (E14). ■ To be used with Lamp (Ref. 81012) - page 138. ■ To be used with Lamp (Ref. 81013) - page 138.	47360 S	BI BJ BV BM

ACCESSORY FOR SURFACE MOUNTING

	Ref.	Color
 Flush Mounting Box 60x60mm	47993 A	BR

MOUNTING ACCESSORIES FOR 10 SERIES - MINI CABLE TRUNKING

	Ref.	Color
LATERAL MOUNTING		
47 Series Lateral Adapter for 12x7 Trunking	10018 A	BR
47 Series Lateral Adapter for 16x10 Trunking	10028 A	
47 Series Lateral Adapter for 20x12,5 Trunking	10038 A	
 47 Series Lateral Adapter for 32x16 Trunking	10048 A	
47 Series Lateral Adapter for 40x12,5 Trunking	10058 A	
47 Series Lateral Adapter for 40x16 Trunking	10068 A	
47 Series Lateral Adapter for 60x16 Trunking	10078 A	
47 Series Lateral Adapter for 75x20 Trunking	10148 A	
FRONTAL MOUNTING		
 47 Series Frontal Adapter for 60x16 Trunking ■ To be used in 10 Series Cable Trunkings (Ref. 10070 CBR).	10079 A	BR
 47 Series Frontal Adapter for 75x20 Trunking ■ To be used in 10 Series Cable Trunkings (Ref. 10140 CBR).	10149 A	

OFFICE SOLUTIONS

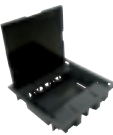
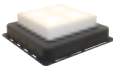


INDICE	PAGE
■ FLOOR BOXES	91
■ WORKSTATION	91
■ DESKTOP WORKSTATIONS	92
■ MINICOLUMN	92
■ COLUMNS	92
■ ACCESSORIES	93

The Office Solutions Series is designed to meet the constant reconfigurations of workspaces, meetings rooms and offices.

*The Office Solutions Series incorporates the **QUADRO 45** series mechanisms (see page 54).*

FLOOR BOXES

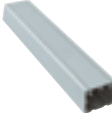
			Ref.	Color
	Floor Box - 4 Modules ■ External dimensions (mm): ø 139. ■ Supplied with claws. f See Technical Data Sheet - page 191.	IK08	83002 C	CZ AT
	Flush Mounting Box for Floor Box - 4 Modules ■ Supplied with claws.		83052	—
	Floor Box - 16 Modules ■ External dimensions (mm): 256 x 256. ■ Supplied with claws. f See Technical Data Sheet - page 192.	IK10	83008 C	CZ AT
	Floor Box with Stainless cover - 16 Modules ■ External dimensions (mm): 256 x 256. ■ Supplied with claws. f See Technical Data Sheet - page 192.	IK10	83008 C	ZI AI
	Flush Mounting Box for Floor Box - 16 Modules ■ Supplied with polystyrene block (Ref. 83190).		83058	—

WORKSTATIONS

			Ref.	Color
SURFACE MOUNTING				
	Workstation Surface Mounting - 2x4 + 4x4 Modules ■ External dimensions (mm): 217 x 202. f See Technical Data Sheet - page 194.	NEW	83410 S	BR
	Workstation Surface Mounting 2x4 + 4x4 Modules with 2 Schuko VM + 2 Schuko BR + 2 RJ ■ External dimensions (mm): 217 x 202. f See Technical Data Sheet - page 194.	NEW	83410 C	BR
FLUSH MOUNTING				
	Workstation Flush Mounting - 2x4 Modules ■ External dimensions (mm): 185 x 170. f See Technical Data Sheet - page 196.	NEW	83401 S	BR
	Workstation Flush Mounting - 3x4 Modules ■ External dimensions (mm): 245 x 170. f See Technical Data Sheet - page 196.	NEW	83402 S	BR
	Workstation Flush Mounting - 4x4 Modules ■ External dimensions (mm): 305 x 170. f See Technical Data Sheet - page 196.	NEW	83403 S	BR
	Workstation Flush Mounting 3x4 Modules with 2 Schuko VM + 2 Schuko BR + 2 RJ ■ External dimensions (mm): 245 x 170. f See Technical Data Sheet - page 196.	NEW	83402 C	BR
	Workstation Flush Mounting with Door - 2x8 Modules ■ External dimensions (mm): 260 x 260. f See Technical Data Sheet - page 198.	NEW	83404 S	BR

OFFICE SOLUTIONS

DESKTOP WORKSTATIONS

		Ref.	Color
	Desktop Workstation - 8+2 Modules ■ Aluminium. ■ Supplied with 4 positioners (Ref. 45992). ■ Supplied with 1 Blind cover plate (Ref. 45677 S). See Technical Data Sheet - page 200.	IK09	83201 S BR
	Desktop Workstation - 12+2 Modules ■ Aluminium. ■ Supplied with 6 positioners (Ref. 45992). ■ Supplied with 1 Blind cover plate (Ref. 45677 S). See Technical Data Sheet - page 200.	IK09	83202 S BR
	Top with Adapter for Desktop Workstations - 2 Modules Q45		83230 A BR
	Cable entry Top for Desktop Workstations		83231 A BR
	Cable Gland 3G 1,5mm		81191 —
	Cable Gland 3G 2,5mm		81192 —
	Desktop Workstations Profile ■ Dimension: 2,10 meters / box. ■ Aluminium. ■ Supplied with cover (Ref. 83233).		83232 —

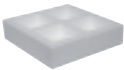
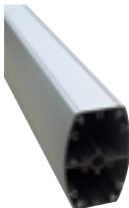
MINICOLUMN

		Ref.	Color
	2-Sided Mini Column - 18+18 Modules ■ Aluminium. See Technical Data Sheet - page 202.	IK09	83281 —

COLUMNS

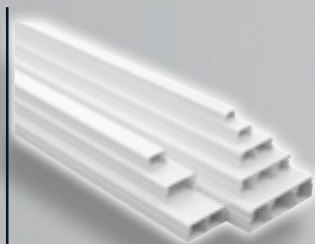
		Ref.	Color
	2-Sided Column - 2850mm ■ Aluminium. See Technical Data Sheet - page 203.	IK09	83241 —
	2-Sided Column - 3300mm ■ Aluminium. See Technical Data Sheet - page 203.	IK09	83242 —

ACCESSORIES

		Ref.	Color
	90° Positioner for 2 Modules ■ For semi-assembled devices of QUADRO 45 Series in Desktop Workstations and Columns. ■ Enables device assembly with 90° rotation.	45992	—
	Polystyrene Block ■ External dimensions (mm): 240,5 x 240,5 x 65. ■ To be used in Flush Mounting Box for Floor Box - 16 Modules (Ref. 83058).	83190	—
	Top for Column ■ See Technical Data Sheet - page 203.	83250 A	CZ AL
	Base for Column/Mini Column ■ See Technical Data Sheet - page 202 e 203	83251 A	CZ AL
	Top for Mini Column ■ See Technical Data Sheet - page 202.	83290 A	CZ AL
	Threaded rod	83252 A	—
	Profile for Column/Minicolumn - 2 sided - 3180mm	83253	—
	Cover for Profile	83233	—
	MODUS 55 Adapter for Workstation NEW	83420	—
	Blind Cover for Workstations ■ Delivery as blind cover plate of 4 modules. NEW	83421	—

10 SERIES

CABLE TRUNKINGS FOR ELECTRICAL AND TELECOMMUNICATIONS INSTALLATIONS



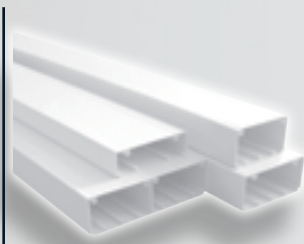
12x7 40x12,5
16x10 40x16
20x12,5 50x20
32x12,5 60x16
32x16 75x20



110x20

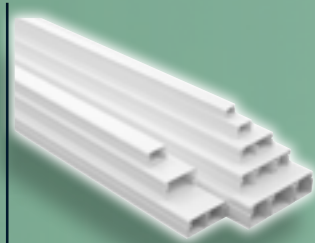


50x12
75x17

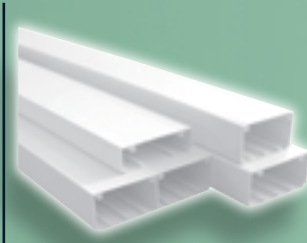


90x50
110x34
110x50
180x50

CABLE TRUNKINGS FOR ELECTRICAL AND TELECOMMUNICATIONS INSTALLATIONS - **HALOGEN FREE**



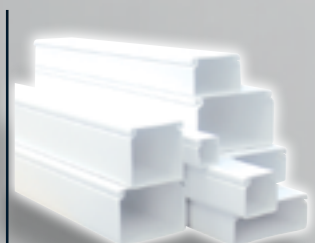
20x12,5
32x12,5
32x16
40x12,5
40x16
50x20



90x50
110x34
110x50
180x50

13 SERIES

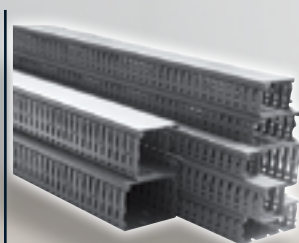
TRUNKINGS FOR PROTECTION OF CABLES AND PIPES



25x34 80x40
40x40 80x60
60x40 100x40
60x60 100x60

14 SERIES

TRUNKINGS FOR PANELBOARDS



25x34 80x40
25x60 80x60
40x40 100x40
60x40 100x60
60x60

CABLE TRUNKINGS

	INDEX	PAGE
■	10 SERIES - CABLE TRUNKINGS FOR ELECTRICAL AND TELECOMMUNICATIONS INSTALLATIONS	
-	Mini Cable - Halogen Free	NEW 96
-	Distribution - Halogen Free	NEW 96
-	Mini Cable	98
-	Distribution	102
-	Skirt	104
-	Floor	104
■	13 SERIES - TRUNKINGS FOR PROTECTION OF CABLES AND PIPES	107
■	14 SERIES - TRUNKINGS FOR PANELBOARDS	107

10 Series - Cable Trunkings for Electrical and Telecommunications Installations

Flexible, suitable for different mounting conditions, the 10 Series and its accessories allow the application of the Series:

LOGUS^{SD} | APOLO 5000 | **sirius70** | **QUADRO 45** | Série 3700 | Série 47.

Color: White RAL 9003

13 Series - Trunkings for Protection of Cables and Pipes

Solution to get a versatile system of conduits for the installation and protection of cables and pipes for heating, water and air-conditioning.

Color: White RAL 9003

14 Series - Trunkings for PANELBOARDS

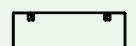
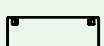
Easy to install due to its perforated base, the 14 Series allows gradual expansion of the number of wires and their fixation.

Color: Grey RAL 7035

10 SERIES HALOGEN FREE - MINI CABLE

			ACCESSORIES FOR MOUNTING CABLE TRUNKINGS							
NEW RoHS IP44 IK07 W x H Ref.			Derivation Variable Inside Angle Variable Plane Angle Joint Top Variable Outside Angle Junction Box 80x80x20							
20x12,5	10030 HBR		10031 GBR	10032 GBR	10033 GBR	10034 GBR	10035 GBR	10036 GBR	10991 ABR	
32x12,5 without Divider	10400 HBR		10401 GBR	10402 GBR	10403 GBR	10404 GBR	10405 GBR	10406 GBR		
32x12,5	10410 HBR									
32x16	10040 HBR		10041 GBR	10042 GBR	10043 GBR	10044 GBR	10045 GBR	10046 GBR		
40x12,5	10050 HBR		10051 GBR	10052 GBR	10053 GBR	10054 GBR	10055 GBR	10056 GBR		
40x16	10060 HBR		10061 GBR	10062 GBR	10063 GBR	10064 GBR	10065 GBR	10066 GBR		
50x20	10500 HBR		10501 GBR	10502 GBR	10503 GBR	10504 GBR	10505 GBR	10506 GBR		

10 SERIES HALOGEN FREE - DISTRIBUTION

			MOUNTING ACCESSORIES FOR CABLE TRUNKINGS							
										
			Derivation	Derivation with reduction for 110x50 cable trunkings	Variable Inside Angle	Variable Plane Angle	Joint	Top	Variable Outside Angle	
110x34	10080 HBR		10081 GBR	—	10082 GBR	10083 GBR	10084 GBR	10085 GBR	10086 GBR	
110x50	10090 HBR		10091 GBR		10092 GBR	10093 GBR	10094 GBR	10095 GBR	10096 GBR	
90x50	10180 HBR		10181 GBR		10182 GBR	10183 GBR	10184 GBR	10185 GBR	10186 GBR	
180x50	10290 HBR		10291 GBR	10298 GBR	10292 GBR	10293 GBR	10294 GBR	10295 GBR	10296 GBR	

Note: Trunkings supplied with Protection Film.

10 SERIES HALOGEN FREE - MINI CABLE

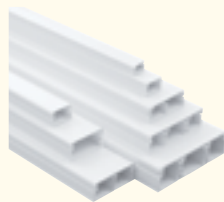
			MOUNTING ACCESSORIES FOR WIRING DEVICES								
											
	Junction Box 80x80x30	Junction Box 110x110x50	47 Series Lateral Adapter	Q45 Series Lateral Adapter	LOGUS 90 Series QUADRO 45 Series Surface Mounting Box	LOGUS 90 Series Surface Mounting Double Box	LOGUS 90 Series Surface Mounting Triple Box	Sirius 70 Series Surface Mounting Box	APOLO 5000 Series Surface Mounting Box	Q45 Modular Surface Mounting Box	Cover Plate Q45 Modular Surface Mounting Box
10998 ABR	10993 ABR	10993 ABR	10038 ABR	10963 ABR	10976 ABR 10976 AMF 10976 AGE 10976 APE 10976 AAL 10976 AIS 10976 APM 10976 ADU	10994 ABR 10994 AMF 10994 AGE 10994 APE 10994 AAL 10994 AIS 10994 APM 10994 ADU	10995 ABR 10995 AMF 10995 AGE 10995 APE 10995 AAL 10995 AIS 10995 APM 10995 ADU	10975 ABR 10975 AMF	10981 GBR	45996 ABR	45997 ABR
			—	—							
			10048 ABR	10964 ABR							
			10058 ABR	10965 ABR							
			10068 ABR	10966 ABR							
			—	—							

10 SERIES HALOGEN FREE - DISTRIBUTIUN

					MOUNTING ACCESSORIES FOR WIRING DEVICES					
										
	Derivation with Reduction	Divider H34	Divider H50	Clip for Cable Support	Q45 Modular Adapter to Trunkings 75mm Covers - 2 Modules	Cover Plate Q45 Modular Adapter to Trunkings 75mm Covers - 2 Modules	Q45 Adapter to Trunkings 75mm Covers - 4 Modules	Q45 Adapter to Trunkings 75mm Covers - 6 Modules	Flush Mounting Box	Semi-Flush Mounting Box
	10088 GBR	10089 G	—	10987 GBR	10950 ABR	10959 ABR	10952 ABR	10954 ABR	10984 GBR	10985 GBR
	10098 GBR	—	10099 G							
	—									

CABLE TRUNKINGS

10 SERIES - MINI CABLE TRUNKINGS



ACCESSORIES FOR MOUNTING CABLE TRUNKINGS



Derivation



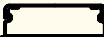
Inside Angle



Variable
Inside Angle



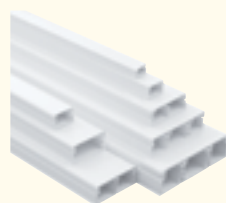
Plane Angle

12x7 (IK05)	10010 CBR		10011 ABR	10012 ABR	—	10013 ABR		
12x7 Adhesive Trunking (IK05)	10010 FBR							
16x10	10020 CBR		10021 ABR	10022 ABR		10023 ABR		
16x10 Adhesive Trunking	10020 FBR							
20x12,5	10030 CBR		10031 ABR	—	10032 ABR	—		
20x12,5 Adhesive Trunking	10030 FBR							
32x12,5 NEW	10410 CBR		10401 ABR		10402 ABR			
32x12,5 Adhesive Trunking NEW	10410 FBR							
32x12,5 without Divider NEW	10400 CBR		10041 ABR		10042 ABR			
32x12,5 Adhesive without Divider NEW	10400 FBR							
32x16	10040 CBR		10041 ABR		10042 ABR			
32x16 Adhesive Trunking	10040 FBR							
40x12,5	10050 CBR		10051 ABR		10052 ABR			
40x12,5 Adhesive Trunking	10050 FBR							
40x12,5 without Divider	10150 CBR							
40x12,5 Adhesive without Divider	10150 FBR							
40x16	10060 CBR		10061 ABR		10062 ABR			
40x16 Adhesive Trunking	10060 FBR							
40x16 without Divider	10160 CBR							
40x16 Adhesive without Divider	10160 FBR							
50x20 without Divider NEW	10500 CBR		10501 ABR		10502 ABR			
50x20 with 1/3 Divider NEW	10510 CBR							
50x20 NEW	10520 CBR							
60x16	10070 CBR		10071 ABR		10072 ABR			
60x16 without Dividers	10170 CBR							
75x20	10140 CBR		10141 ABR		10142 ABR			

10 SERIES - MINI CABLE TRUNKINGS

											
	Variable Plane Angle	Joint	Top	Outside Angle	Variable Outside Angle	Junction Box 80x80x20	Junction Box 80x80x30	Junction Box 110x110x50			
	—	10014 ABR	10015 ABR	10016 ABR	—	10991 ABR	10998 ABR	10993 ABR			
		10024 ABR	10025 ABR	10026 ABR							
	10033 ABR	10034 ABR	10035 ABR	—	10036 ABR						
	10403 ABR	10404 ABR	10405 ABR		10406 ABR						
	10043 ABR	10044 ABR	10045 ABR		10046 ABR						
	10053 ABR	10054 ABR	10055 ABR		10056 ABR						
	10063 ABR	10064 ABR	10065 ABR		10066 ABR						
	10503 ABR	10504 ABR	10505 ABR		10506 ABR						
	10073 ABR	10074 ABR	10075 ABR		10076 ABR						
	10143 ABR	10144 ABR	10145 ABR		10146 ABR				—	—	

10 SERIES - MINI CABLE TRUNKINGS



ACCESSORIES FOR MOUNTING FLUSH MOUNTING DEVICES



3700 Series
Adapter



47 Series
Lateral Adapter



47 Series
Frontal Adapter



Q45 Series
Lateral Adapter

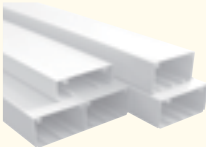
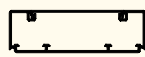
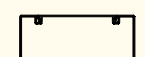
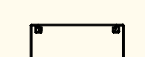
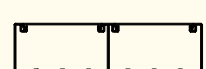
		Ref.					
12x7 (IK05)		10010 CBR		10017 ABR	10018 ABR		10961 ABR
12x7 Adhesive Trunking (IK05)		10010 FBR					
16x10		10020 CBR		10027 ABR	10028 ABR		10962 ABR
16x10 Adhesive Trunking		10020 FBR					
20x12,5		10030 CBR		10037 ABR	10038 ABR		10963 ABR
20x12,5 Adhesive Trunking		10030 FBR					
32x12,5	NEW	10410 CBR		—	—		—
32x12,5 Adhesive Trunking	NEW	10410 FBR					
32x12,5 without Divider	NEW	10400 CBR					
32x12,5 Adhesive without Divider	NEW	10400 FBR					
32x16		10040 CBR		10047 ABR	10048 ABR		10964 ABR
32x16 Adhesive Trunking		10040 FBR					
40x12,5		10050 CBR		10057 ABR	10058 ABR		10965 ABR
40x12,5 Adhesive Trunking		10050 FBR					
40x12,5 without Divider		10150 CBR					
40x12,5 Adhesive without Divider		10150 FBR					
40x16		10060 CBR		10067 ABR	10068 ABR		10966 ABR
40x16 Adhesive Trunking		10060 FBR					
40x16 without Divider		10160 CBR					
40x16 Adhesive without Divider		10160 FBR					
50x20 without Divider	NEW	10500 CBR		—	—		—
50x20 with 1/3 Divider	NEW	10510 CBR					
50x20	NEW	10520 CBR					
60x16		10070 CBR		10077 ABR	10078 ABR	10079 ABR	10967 ABR
60x16 without Dividers		10170 CBR				—	
75x20		10140 CBR		10147 ABR	10148 ABR	10149 ABR	10968 ABR

10 SERIES - MINI CABLE TRUNKINGS

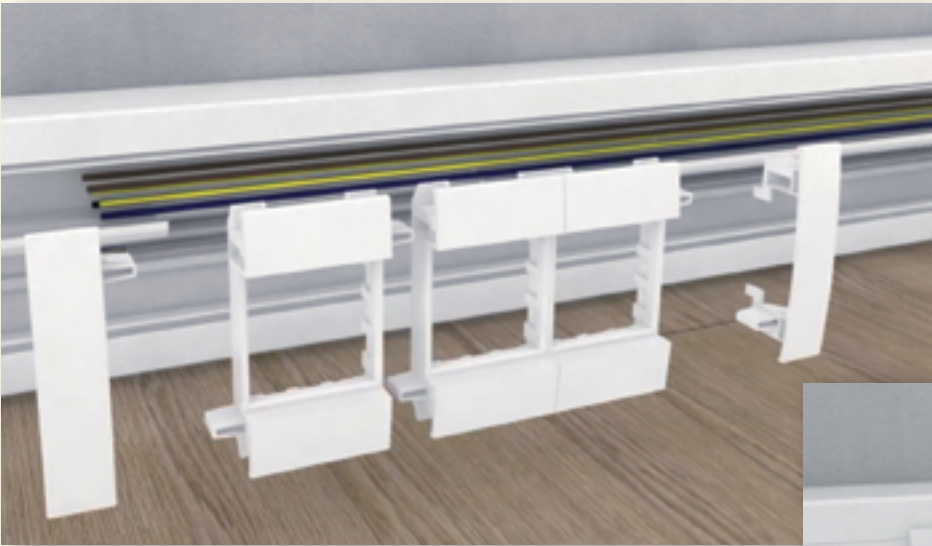
									
	Q45 Series Frontal Adapter	LOGUS 90 Series Quadro 45 Series Surface Mounting Box	LOGUS 90 Series Surface Mounting Double Box	LOGUS 90 Series Surface Mounting Triple Box	Sirius 70 Series Surface Mounting Box	APOLO 5000 Series Surface Mounting Box	Q45 Modular Surface Mounting Box	Cover Plate Q45 Modular Surface Mounting Box	Surface Mounting Box for Italian/American Type Mechanisms
		10976 ABR 10976 AMF 10976 AGE 10976 APE 10976 AAL 10976 AIS 10976 APM 10976 ADU	10994 ABR 10994 AMF 10994 AGE 10994 APE 10994 AAL 10994 AIS 10994 APM 10994 ADU	10995 ABR 10995 AMF 10995 AGE 10995 APE 10995 AAL 10995 AIS 10995 APM 10995 ADU	10975 ABR 10975 AMF	10981 ABR 10981 AMF	45996 ABR	45997 ABR	10972 ABR
10988 ABR									
10989 ABR									

CABLE TRUNKINGS

10 SERIES - DISTRIBUTION CABLE TRUNKINGS

			ACCESSORIES FOR MOUNTING CABLE TRUNKINGS						
W x H (COVERS WITH 75MM WIDTH - L75)	Ref.								
			Derivation	Derivation Trunking 110x50	Variable Inside Angle	Variable Plane Angle	Joint	Top	
110x34	10080 RBR		10081 RBR	—	10082 RBR	10083 RBR	10084 RBR	10085 RBR	
110x50	10090 RBR		10091 RBR		10092 RBR	10093 RBR	10094 RBR	10095 RBR	
90x50	10180 RBR		10181 RBR		10182 RBR	10183 RBR	10184 RBR	10185 RBR	
180x50	10290 RBR		10291 RBR	10298 RBR	10292 RBR	10293 RBR	10294 RBR	10295 RBR	

Note: Trunkings supplied with Protection Film.

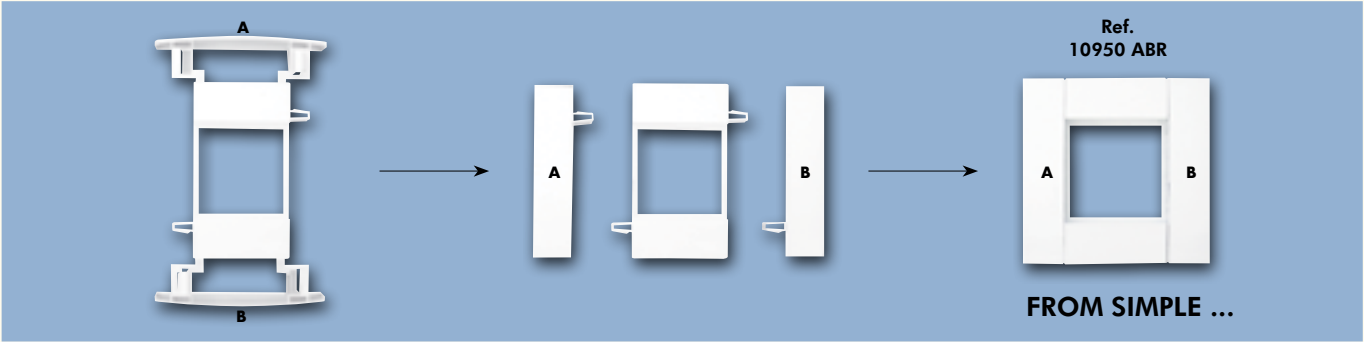


10 SERIES - DISTRIBUTION CABLE TRUNKINGS

				
	Variable Outside Angle	Derivation with Reduction	Divider	Clip for Cable Support
	10086 RBR	10088 ABR	10089 R	10987 ABR
	10096 RBR	10098 ABR	10099 R	
	10186 RBR	—		
	10296 RBR			

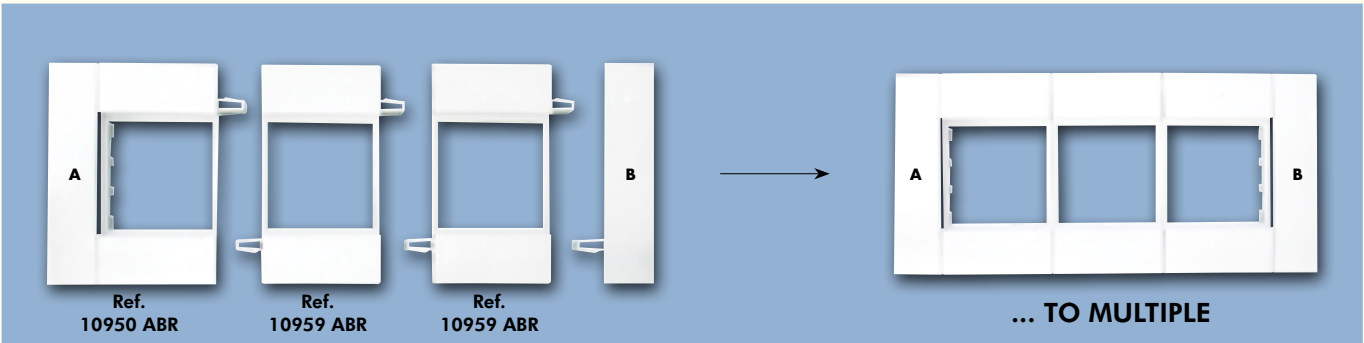
ACCESSORIES FOR MOUNTING FLUSH MOUNTING DEVICES							
							
Q45 Modular Adapter to Trunkings 75mm Covers - 2 Modules	Cover Plate Q45 Modular Adapter to Trunkings 75mm Covers - 2 Modules	Q45 Adapter to Trunkings 60/75mm Covers - 2 Modules	Q45 Adapter to Trunkings 75mm Covers - 4 Modules	Q45 Adapter to Trunkings 75mm Covers - 6 Modules	Flush Mounting Box	Semi-Flush Mounting Box	Flush Mounting Box for Italian/American Type Mechanisms
10950 ABR	10959 ABR	10986 ABR	10952 ABR	10954 ABR	10984 ABR	10985 ABR	10971 ABR

■ REF. 10950 ABR - Q45 MODULAR ADAPTER TO TRUNKINGS WITH 75MM COVERS - 2 MODULES



CABLE TRUNKINGS

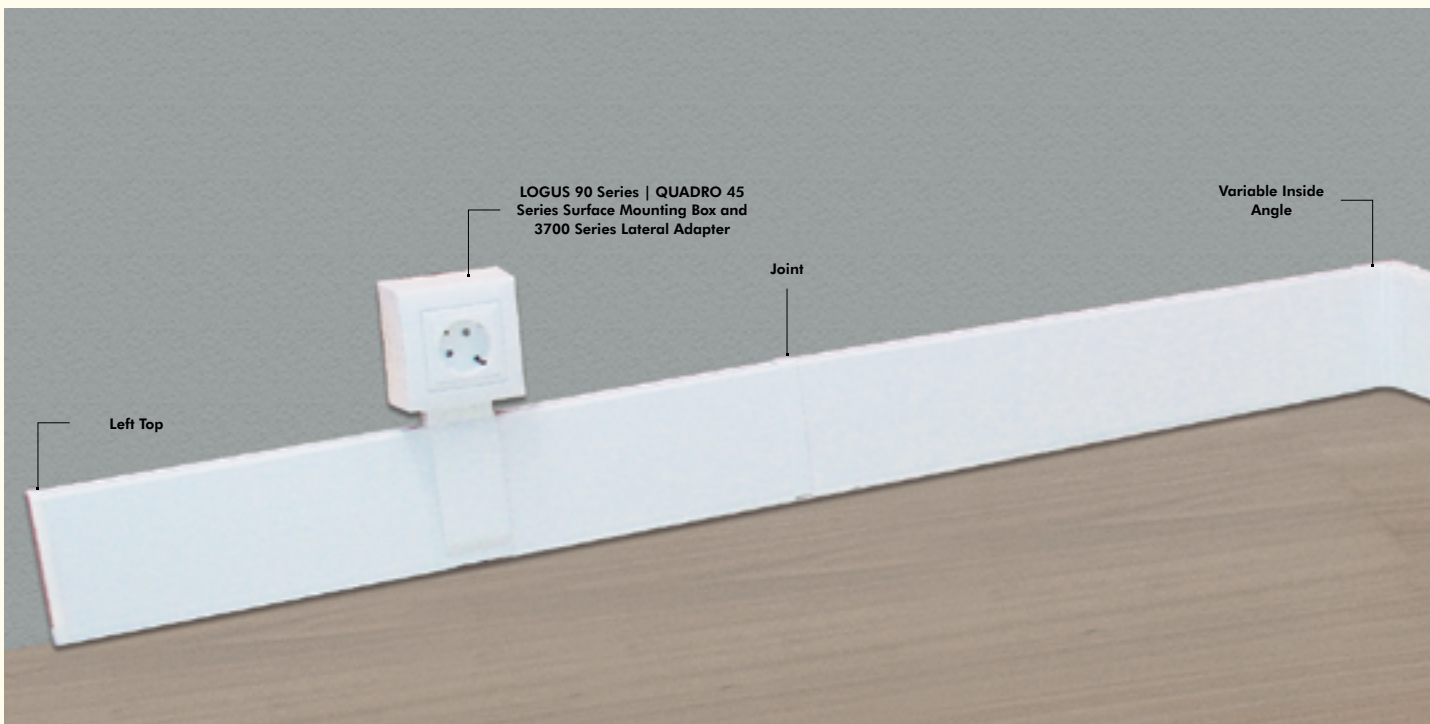
■ REF. 10959 ABR - COVER PLATE FOR Q45 MODULAR ADAPTER TO TRUNKINGS WITH 75MM COVERS - 2 MODULES + REF. 10950 ABR



10 SERIES - SKIRT CABLE TRUNKINGS

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Note: Trunkings supplied with Protection Film.



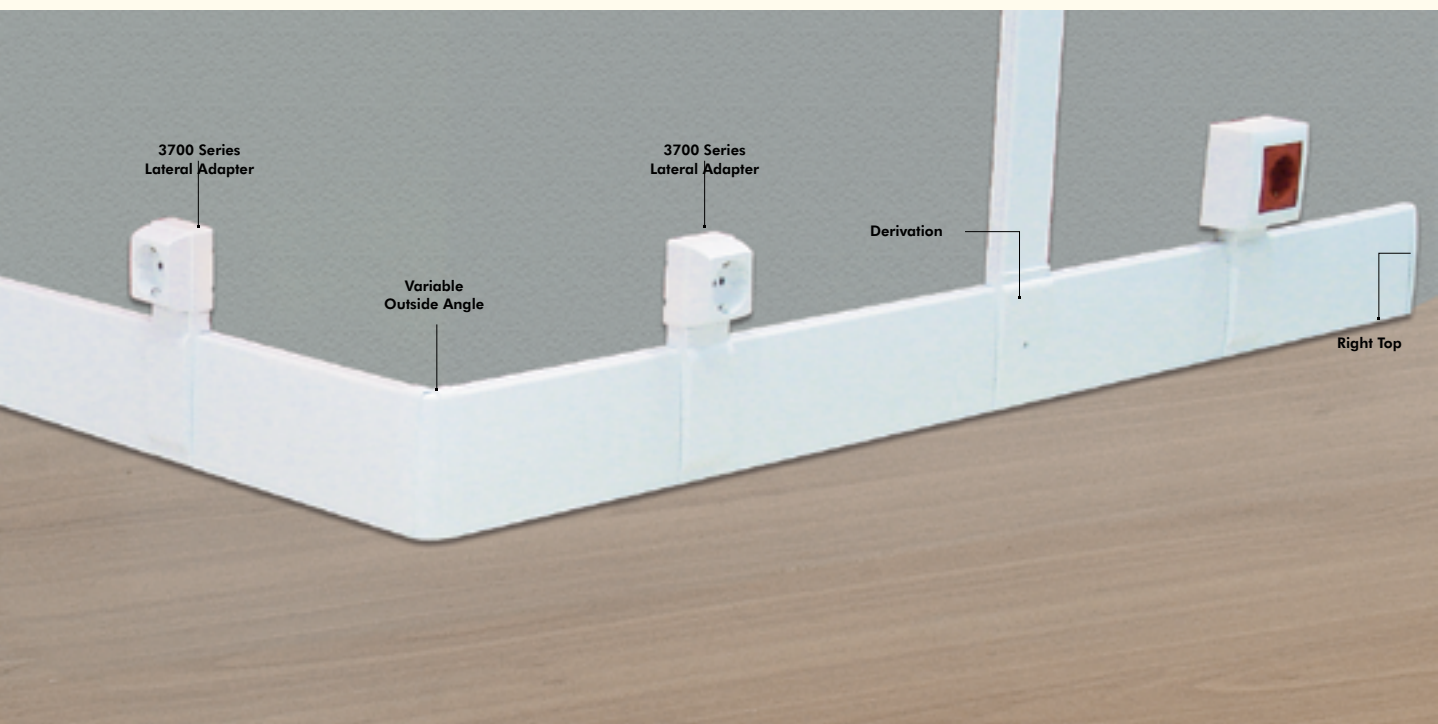
10 SERIES - FLOOR CABLE TRUNKINGS

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Note: Trunkings supplied with Protection Film.

10 SERIES - SKIRT CABLE TRUNKINGS

		ACCESSORIES FOR MOUNTING FLUSH MOUNTING DEVICES							
									
	Clip for Cable Support	LOGUS 90 Series QUADRO 45 Series Surface Mounting Box	LOGUS 90 Series Surface Mounting Double Box	LOGUS 90 Series Surface Mounting Triple Box	Sirius 70 Series Surface Mounting Box	APOLO 5000 Series Surface Mounting Box	Q45 Modular Surface Mounting Box	Cover Plate Q45 Modular Surface Mounting Box	Surface Mounting Box for Italian/American Type Mechanisms
10109 ABR		10976 ABR 10976 AMF 10976 AIS 10976 AGE 10976 APE 10976 AAL 10976 APM 10976 ADU	10994 ABR 10994 AMF 10994 AGE 10994 APE 10994 AAL 10994 AIS 10994 APM 10994 ADU	10995 ABR 10995 AMF 10995 AGE 10995 APE 10995 AAL 10995 AIS 10995 APM 10995 ADU	10975 ABR 10975 AMF	10981 ABR 10981 AMF	45996 ABR	45997 ABR	10972 ABR

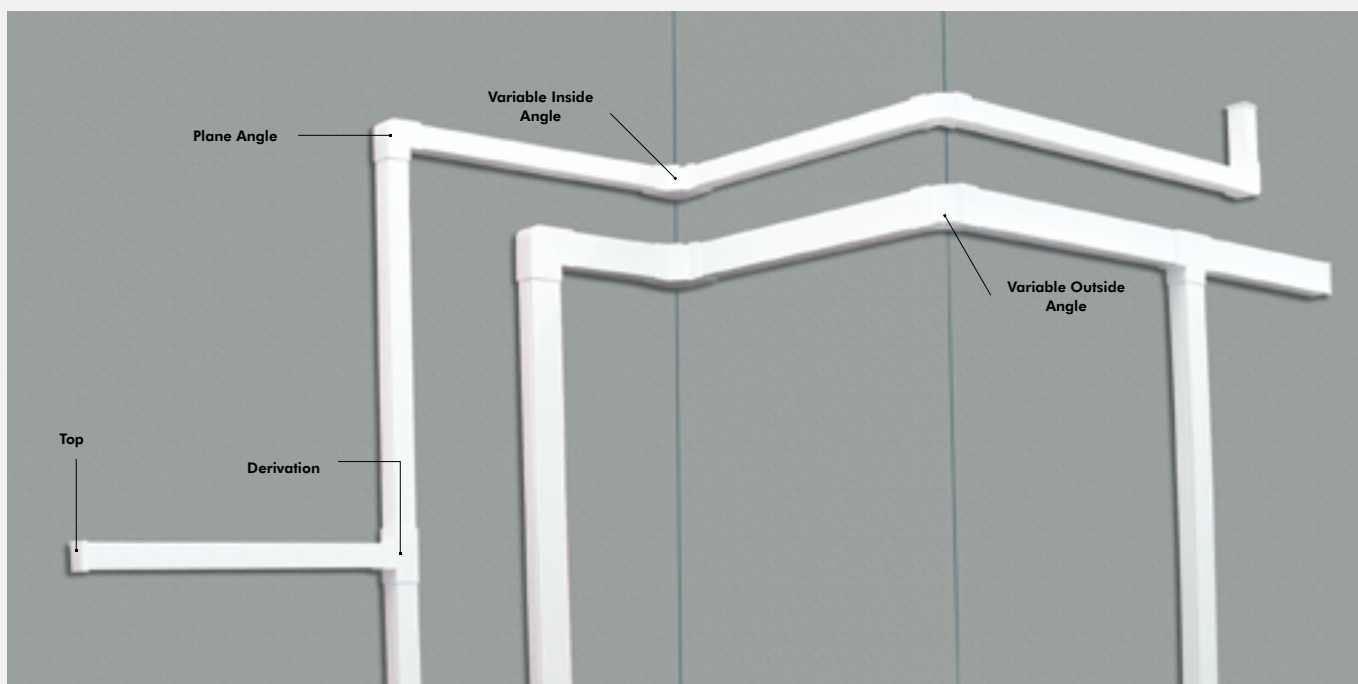


10 SERIES - FLOOR CABLE TRUNKINGS

				ACCESSORIES FOR MOUNTING FLUSH MOUNTING DEVICES	
					
	Adapter for 50x12 Floor Trunking to 40x12,5 Trunking	Adapter for 75x17 Floor Trunking to 60x16 Trunking	Junction Box for Floor Trunkings	APOLO 5000 Series Surface Mounting Box for Floor Cable Trunkings	
10117 ACZ		—	10999 ACZ	10997 ACZ	
—		10127 ACZ			

13 SERIES - TRUNKINGS FOR PROTECTION OF CABLES AND PIPES

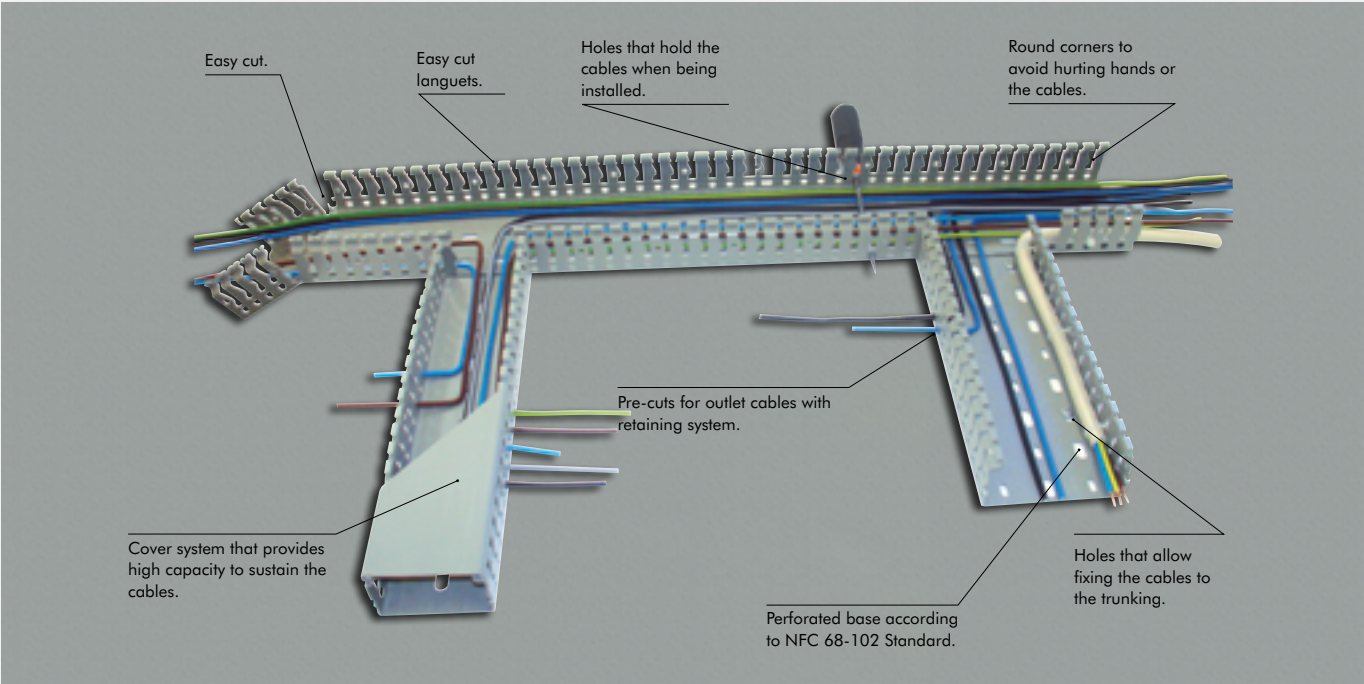
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14 SERIES - TRUNKINGS FOR PANELBOARDS



	Ref.	
25x30	14010 CCZ	
25x60	14090 CCZ	
40x40	14020 CCZ	
60x40	14030 CCZ	
60x60	14040 CCZ	
80x40	14050 CCZ	
80x60	14060 CCZ	
100x40	14070 CCZ	
100x60	14080 CCZ	



CABLE TRUNKINGS



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■ COUPLERS FOR FIBRE OPTIC CONNECTORS	109
■ CONNECTION, DISTRIBUTION DEVICES, SURGE PROTECTION DEVICES AND ACCESSORIES	110
■ PATCH CORDS	112
■ TOOLS	113
■ TELEPHONE CONNECTION DEVICES FOR USERS - BPA	113

The DVI Series meets the most demanding requests for telecommunications installations (data, voice and image).

With a wide range of products such as connectors, connection and distribution devices, surge protection devices and accessories, and patch cords,...

CONNECTORS

	Ref.	Color
 RJ45 Cat. 6 UTP Connector (250 MHz)	21978	—
 RJ45 Cat. 6 UTP Connector - Rack Mounting (250 MHz)	82020	—
 RJ45 Cat. 6 STP Connector (250 MHz)	21988	—
 RJ45 Cat. 5e UTP Connector (100 MHz)	21975	—
 RJ45 Cat. 5e STP Connector (100 MHz)	21985	—
 Double RJ45 Cat. 5e UTP Connector (1 input / 2 outputs)	21980	—
 RJ11 Cat. 3 Connector	21972	—
 Connector Tipo F Coaxial Cable	21979	—
 IEC Connector Male Type F NEW	82606	—
 IEC Female Connector Type F NEW	82607	—

COUPLERS FOR FIBRE OPTIC CONNECTORS

	Ref.	Color
 Coupler for SC APC Duplex Fibre Optic Connector	82211	—
 Coupler for SC APC Simplex Fibre Optic Connector	82210	—
 Coupler for LC APC Duplex Fibre Optic Connector	82213	—
 Protective Cover for Coupler for SC APC Simplex Fibre Optic Connector	82970	—
 Protective Cover for Coupler for SC APC Duplex Fibre Optic Connector	82971	—

DVI

CONNECTION, DISTRIBUTION DEVICES, SURGE PROTECTION DEVICES AND ACCESSORIES

		Ref.	Color
	Telephone Plug - 8 Positions with 8 Contacts (unshielded)	82028	—
	Shielded RJ45 FTP Plug 8 Contacts (armored)	82029	—
	Telephone Plug - 4 Positions with 4 Contacts	82024	—
	Telephone Plug - 6 Positions with 4 Contacts	82025	—
	Telephone Plug - 6 Positions with 6 Contacts	82026	—
	F Type Male Plug	82601	—
	F Type 90° Male Plug	82602	—
	F Type 90° Male Plug Compression	82605	—
	F Type 90° Male + Female Plug	82603	—
	TV Male + Female Plug	82611	—
	Ten Pairs Disconnection Module - DDS (Numbers from 1 to 10) ■ Cat. 3.	82511	—
	Ten Pairs Derivation Device for Connection and Test - DDE ■ Cat. 3.	82512	—
	F Type 75 Ohm Tap Terminator	82681	—
	Eight Outputs TV Splitter ■ F type, 5MHz - 2,4GHz, 8dB, Flow DC.	82691	—
	Four Outputs TV Splitter ■ F type, 5MHz - 2,4GHz, 8dB, Flow DC.	82692	—
	2x6 Outputs TV Splitter ■ F type, 5-2400MHz, 30V 700mA Flow DC.	60911	—
	2x8 Outputs TV Splitter ■ F type, 5-2400MHz, 30V 700mA Flow DC.	60913	—
	2x12 Outputs TV Splitter ■ F type, 5-2400MHz, 30V 700mA Flow DC.	60912	—

NEW

CONNECTION, DISTRIBUTION DEVICES, SURGE PROTECTION DEVICES AND ACCESSORIES

	Ref.	Color
 Two Pole Gas-filled Surge Arresters Cartridge	82521	—
 Two Pole Gas-filled Surge Arrester	82522	—
 Three Pole Gas-filled Surge Arresters Cartridge	82523	—
 Three Pole Gas-filled Surge Arrester	82524	—
 Disconnection Plug	82535	—
 Fast Connector for 2 or 3 Conductors	82536	—
 Label Holder for DDE/DDS Modules	82537	—
 Label Holder for Mounting Frames	82538	—
 Mounting Support for 1 DDE/DDS Module (12mm height)	82541	—
 Mounting Support for 2 DDE/DDS Modules (12mm height)	82542	—
 Mounting Support for 1 DDE/DDS Module (22mm height)	82543	—
 Mounting Support for 2 DDE/DDS Modules (22mm height)	82544	—
 Mounting Support for 3 DDE/DDS Modules (22mm height)	82545	—
 Mounting Support for 5 DDE/DDS Modules (22mm height)	82546	—
 Mounting Support for 10 DDE/DDS Modules (22mm height)	82547	—

DVI

PATCH CORDS

	Ref.	Color
Antenna Cord with 1 Male and 1 Female Plugs (1,5m length)	82591 A	
 Antenna Cord with 1 Male and 1 Female Plugs (3m length)	82593 A	BR
Antenna Cord with 1 Male and 1 Female Plugs (5m length)	82595 A	
Patch Cord of 4 Pairs UTP Cable Cat. 5e and 2 RJ45 Male Plugs (0,5m length)	82621 A	
 Patch Cord of 4 Pairs UTP Cable Cat. 5e and 2 RJ45 Male Plugs (3m length)	82622 A	CZ
Patch Cord of 4 Pairs UTP Cable Cat. 5e and 2 RJ45 Male Plugs (5m length)	82625 A	
Patch Cord of 4 Pairs FTP Cable Cat. 5e and 2 RJ45 Male Plugs (0,5m length)	82631 A	
 Patch Cord of 4 Pairs FTP Cable Cat. 5e and 2 RJ45 Male Plugs (3m length)	82632 A	CZ
Patch Cord of 4 Pairs FTP Cable Cat. 5e and 2 RJ45 Male Plugs (5m length)	82635 A	
Patch Cord of 4 Pairs UTP Cable Cat. 6 and 2 RJ45 Male Plugs (0,5m length)	82641 A	
 Patch Cord of 4 Pairs UTP Cable Cat. 6 and 2 RJ45 Male Plugs (3m length)	82642 A	CZ
Patch Cord of 4 Pairs UTP Cable Cat. 6 and 2 RJ45 Male Plugs (5m length)	82645 A	
Patch Cord of 4 Pairs FTP Cable Cat. 6 and 2 RJ45 Male Plugs (0,5m length)	82651 A	
 Patch Cord of 4 Pairs FTP Cable Cat. 6 and 2 RJ45 Male Plugs (3m length)	82652 A	CZ
Patch Cord of 4 Pairs FTP Cable Cat. 6 and 2 RJ45 Male Plugs (5m length)	82655 A	

TOOLS		
	Ref.	Color
 Crimping Tool for 6x4, 6x6 or 8x8 RJ Plugs	82581	—
 Two Pole Test Cord	82533	—
 Four Pole Test Cord	82534	—
 Insertion Tool (with or without Cutting Function)	82561	—
 Protecting Bag for Insertion Tool	82562	—

TELEPHONE CONNECTION DEVICES FOR USERS - BPA		
	Ref.	Color
 BPA - S (Simple)	82011	—
 BPA - F (with Fuses and Gas-filled Surge Arresters)	82013	—

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- ACCESSORIES	125
GENERAL CHARACTERISTICS	
■ EN 62208 / EN 61439-3	
■ Insulation Class: II	
■ IP40	
■ IK07	
■ White - RAL 9003	
■ Reversible door	
■ Rotary Lever Lock or Keylock option.	

COMPLETE

INDEX

PAGE

■ DISTRIBUTION PANELS

116

- 4 Modules (1x4)
- 8 Modules (1x8)
- 12 Modules (1x12)
- 16 Modules (2x8)
- 24 Modules (2x12)
- 32 Modules (2x16)
- 40 Modules (2x20)
- 48 Modules (2x24)
- 60 Modules (3x20)
- 80 Modules (4x20)

■ RCD (POWER CONTROL DEVICE) INCOMER PANELS

117

- 16 Modules (2x8) + RCD
- 24 Modules (2x12) + RCD
- 32 Modules (2x16) + RCD
- 44 Modules (2x12+1x20) + RCD
- 64 Modules (2x12+2x20) + RCD

■ TELECOMMUNICATION PANELS - ATI (INDIVIDUAL TELECOMMUNICATIONS PANEL)

118

- 6CC + 12PC - 6 Coaxial Cable Outlets (CC) and up to 12 Copper Pair Outlets (PC)
- 8CC + 24PC - 8 Coaxial Cable Outlets (CC) and up to 24 Copper Pair Outlets (PC) NEW
- 12CC + 24PC - 12 Coaxial Cable Outlets (CC) and up to 24 Copper Pair Outlets (PC)

DISTRIBUTION PANELS

		Ref.	Mod.	Rows	W x H x D (mm)	Color
	Flush Mounting Panelboard - 4 Modules (1x4) ■ Supplied with Accessories: - Brass Terminals with 9 Neutral Connections (Ref. 60902) - 1 un; - Brass Terminals with 9 Earth Connections (Ref. 60903) - 1 un; - Circuits identification sheet; - Circuits identification label; - DIN rail.	60004 1AB	4	1	217 x 275 x 148	BR
	Flush Mounting Panelboard - 8 Modules (1x8) ■ Supplied with Accessories: - Brass Terminals with 9 Neutral Connections (Ref. 60902) - 1 un; - Brass Terminals with 9 Earth Connections (Ref. 60903) - 1 un; - Circuits identification sheet; - Circuits identification label; - DIN rail.	60008 1AB	8	1	289 x 275 x 148	BR
	Flush Mounting Panelboard - 12 Modules (1x12) ■ Supplied with Accessories: - Brass Terminals with 9 Neutral Connections (Ref. 60902) - 1 un; - Brass Terminals with 9 Earth Connections (Ref. 60903) - 1 un; - Circuits identification sheet; - Circuits identification label; - DIN rail.	60012 1AB	12	1	361 x 275 x 148	BR
	Flush Mounting Panelboard - 16 Modules (2x8) ■ Supplied with Accessories: - Brass Terminals with 9 Neutral Connections (Ref. 60902) - 1 un; - Brass Terminals with 9 Earth Connections (Ref. 60903) - 1 un; - Circuits identification sheet; - Circuits identification label; - DIN rail.	60016 2AB	16	2	289 x 400 x 148	BR
	Flush Mounting Panelboard - 24 Modules (2x12) ■ Supplied with Accessories: - Brass Terminals with 9 Neutral Connections (Ref. 60902) - 2 un; - Brass Terminals with 20 Earth Connections (Ref. 60905) - 1 un; - Circuits identification sheet; - Circuits identification label; - Front Plate (Ref. 60906) - 1 un (10 modules); - DIN rail.	60024 2AB	24	2	361 x 400 x 148	BR
	Flush Mounting Panelboard - 32 Modules (2x16) ■ Supplied with Accessories: - Brass Terminals with 9 Neutral Connections (Ref. 60902) - 2 un; - Brass Terminals with 9 Earth Connections (Ref. 60903) - 1 un; - Brass Terminals with 20 Earth Connections (Ref. 60905) - 1 un; - Circuits identification sheet; - Circuits identification label; - Front Plate (Ref. 60906) - 1 un (10 modules); - DIN rail.	60032 2AB	32	2	433 x 400 x 148	BR
	Flush Mounting Panelboard - 40 Modules (2x20) ■ Supplied with Accessories: - Brass Terminals with 9 Neutral Connections (Ref. 60902) - 1 un; - Brass Terminals with 9 Earth Connections (Ref. 60903) - 1 un; - Brass Terminals with 20 Earth Connections (Ref. 60905) - 1 un; - Brass Terminals with 20 Neutral Connections (Ref. 60904) - 1 un; - Circuits identification sheet; - Circuits identification label; - Front Plate (Ref. 60906) - 1 un (10 modules); - DIN rail.	60040 2AB	40	2	505 x 400 x 148	BR
	Flush Mounting Panelboard - 48 Modules (2x24) ■ Supplied with Accessories: - Brass Terminals with 9 Neutral Connections (Ref. 60902) - 2 un; - Brass Terminals with 20 Neutral Connections (Ref. 60904) - 1 un; - Brass Terminals with 20 Earth Connections (Ref. 60905) - 2 un; - Circuits identification sheet; - Circuits identification label; - Front Plate (Ref. 60906) - 1 un (10 modules); - DIN rail.	60048 2AB	48	2	577 x 400 x 148	BR
	Flush Mounting Panelboard - 60 Modules (3x20) ■ Supplied with Accessories: - Brass Terminals with 9 Neutral Connections (Ref. 60902) - 2 un; - Brass Terminals with 20 Neutral Connections (Ref. 60904) - 1 un; - Brass Terminals with 20 Earth Connections (Ref. 60905) - 2 un; - Circuits identification sheet; - Circuits identification label; - Front Plate (Ref. 60906) - 1 un (10 modules); - DIN rail.	60060 3AB	60	3	505 x 525 x 148	BR
	Flush Mounting Panelboard - 80 Modules (4x20) ■ Supplied with Accessories: - Brass Terminals with 9 Neutral Connections (Ref. 60902) - 1 un; - Brass Terminals with 20 Neutral Connections (Ref. 60904) - 2 un; - Brass Terminals with 20 Earth Connections (Ref. 60905) - 3 un; - Circuits identification sheet; - Circuits identification label; - Front Plate (Ref. 60906) - 2 un (10 modules); - DIN rail.	60080 4AB	80	4	505 x 650 x 148	BR



RCD (POWER CONTROL DEVICE) INCOMER PANELS

	Ref.	Mod.	Rows	W x H x D (mm)	Color
 Flush Mounting Panelboard - 16 Modules (2x8)+RCD ■ Supplied with Accessories: - Brass Terminals with 9 Neutral Connections (Ref. 60902) - 1 un; - Brass Terminals with 9 Earth Connections (Ref. 60903) - 1 un; - Circuits identification sheet; - Circuits identification label; - Front Plate (Ref. 60906) - 1 un (10 módulos); - DIN rail.	60016 2BB	16	2	433 x 400 x 148	BR
 Flush Mounting Panelboard - 24 Modules (2x12)+RCD ■ Supplied with Accessories: - Brass Terminals with 9 Neutral Connections (Ref. 60902) - 2 un; - Brass Terminals with 20 Earth Connections (Ref. 60905) - 1 un; - Circuits identification sheet; - Circuits identification label; - Front Plate (Ref. 60906) - 1 un (10 módulos); - DIN rail.	60024 2BB	24	2	505 x 400 x 148	BR
 Flush Mounting Panelboard - 32 Modules (2x16)+RCD ■ Supplied with Accessories: - Brass Terminals with 9 Neutral Connections (Ref. 60902) - 2 un; - Brass Terminals with 20 Earth Connections (Ref. 60905) - 1 un; - Circuits identification sheet; - Circuits identification label; - Front Plate (Ref. 60906) - 1 un (10 módulos); - DIN rail.	60032 2BB	32	2	577 x 400 x 48	BR
 Flush Mounting Panelboard - 44 Modules (2x12+1x20)+RCD ■ Supplied with Accessories: - Brass Terminals with 9 Neutral Connections (Ref. 60902) - 1 un; - Brass Terminals with 20 Neutral Connections (Ref. 60904) - 1 un; - Brass Terminals with 20 Earth Connections (Ref. 60905) - 2 un; - Circuits identification sheet; - Circuits identification label; - Front Plate (Ref. 60906) - 1 un (10 módulos); - DIN rail.	60044 3BB	44	3	505 x 525 x 148	BR
 Flush Mounting Panelboard - 64 Modules (2x12+2x20)+RCD ■ Supplied with Accessories: - Brass Terminals with 9 Neutral Connections (Ref. 60902) - 2 un; - Brass Terminals with 20 Neutral Connections (Ref. 60904) - 1 un; - Brass Terminals with 20 Earth Connections (Ref. 60905) - 2 un; - Circuits identification sheet; - Circuits identification label; - Front Plate (Ref. 60906) - 2 un (10 módulos); - DIN rail.	60064 4BB	64	4	505 x 650 x 148	BR

TELECOMMUNICATION PANELS - ATI (INDIVIDUAL TELECOMMUNICATIONS PANEL)

	Ref.	Mod.	Rows	W x H x D (mm)	Color
 Telecom Box - 6CC+12PC ■ Supplied with Accessories: - PC Splitter with connectors Cat. 6 UTP (1 input, 6 outputs, expandable to 12 outputs); - Double Coaxial Splitter (2 inputs and 2 x 6 outputs); - FO Splitter with SC/APC Simplex Optical Fibre Coupler; - F type 90° Male Plug (Ref. 82605) - 8 un; - 75 Ohms type "F" terminations (Ref. 82681) - 6 un; - Brass Terminals with 9 Earth Connections (Ref. 60903) - 1 un; - Schuko Socket (Ref. 45132 SBR) - 1 un; - Terminal sockets identification sheet; - Terminal sockets identification label.	60048 2PB	—	—	577 x 400 x 148	BR
 Telecom Box - 8CC+24PC NEW ■ Supplied with Accessories: - PC Splitter with connectors Cat. 6 UTP (1 input, 12 outputs, expandable to 24 outputs); - Double Coaxial Splitter (2 inputs and 2 x 8 outputs); - FO Splitter with SC/APC Simplex Optical Fibre Coupler; - F type 90° Male Plug (Ref. 82605) - 10 un; - 75 Ohms type "F" terminations (Ref. 82681) - 8 un; - Brass Terminals with 9 Earth Connections (Ref. 60903) - 1 un; - Schuko Socket (Ref. 45132 SBR) - 1 un; - Terminal sockets identification sheet; - Terminal sockets identification label.	60060 3SB	—	—	505x525x148	BR
 Telecom Box - 12CC+24PC ■ Supplied with Accessories: - PC Splitter with connectors Cat. 6 UTP (1 input 12 outputs, expandable to 24 outputs); - Double Coaxial Splitter (2 inputs and 2 x 12 outputs); - FO Splitter with SC/APC Simplex Optical Fibre Coupler; - F type 90° Male Plug (Ref. 82605) - 14 un; - 75 Ohms type "F" terminations (Ref. 82681) - 12 un; - Brass Terminals with 9 Earth Connections (Ref. 60903) - 1 un; - Schuko Socket (Ref. 45132 SBR) - 1 un; - Terminal sockets identification sheet; - Terminal sockets identification label.	60060 3PB	—	—	505 x 525 x 148	BR

TELECOMMUNICATION PANELS - CATI (TELECOM AUXILIAR BOX)

	Ref.	Mod.	Rows	W x H x D (mm)	Color
 Telecom Auxiliar Box (CATI) - 6CC+12PC	60048 2UB	—	—	577 x 400 x 148	BR
 Telecom Auxiliar Box (CATI) - 12CC+24PC	60060 3UB	—	—	505 x 525 x 148	BR

SEMI-ASSEMBLED

INDEX

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■ DISTRIBUTION PANELS - SEMI-ASSEMBLED

120

- 4 Modules (1x4)
- 8 Modules (1x8)
- 12 Modules (1x12)
- 16 Modules (2x8)
- 24 Modules (2x12)
- 32 Modules (2x16)
- 40 Modules (2x20)
- 48 Modules (2x24)
- 60 Modules (3x20)
- 80 Modules (4x20)

■ RCD (POWER CONTROL DEVICE) INCOMER PANELS - SEMI-ASSEMBLED

122

- 16 Modules (2x8) + RCD
- 24 Modules (2x12) + RCD
- 32 Modules (2x16) + RCD
- 44 Modules (2x12+1x20) + RCD
- 64 Modules (2x12+2x20) + RCD

■ TELECOMMUNICATIONS PANELS - ATI (INDIVIDUAL TELECOMMUNICATIONS PANEL) - SEMI-ASSEMBLED

123

- 6CC + 12PC - 6 Coaxial Cable Outlets (CC) and up to 12 Copper Pair Outlets (PC)
- 8CC + 24PC - 8 Coaxial Cable Outlets (CC) and up to 24 Copper Pair Outlets (PC) NEW
- 12CC + 24PC - 12 Coaxial Cable Outlets (CC) and up to 24 Copper Pair Outlets (PC)

■ TELECOMMUNICATIONS PANELS - CATI (TELECOM AUXILIAR BOX) - SEMI-ASSEMBLED

124

- CATI to ATI with 6 Coaxial Cable Outlets (CC) and up to 12 Copper Pair Outlets (PC)
- CATI to ATI with 8 Coaxial Cable Outlets (CC) and up to 24 Copper Pair Outlets (PC)

DISTRIBUTION PANELS

		Ref.	Mod.	Rows	W x H x D (mm)	Color
■ 4 MODULES						
	Flush Mounting Box for Panelboard - 4 Modules	60004 1GB	—	—	192 x 255 x 113	—
	Interior Fitting + Door for Panelboard - 4 Modules (1x4) ■ Accessories included: - Brass Terminals with 9 Neutral Connections (Ref. 60902) - 1 un; - Brass Terminals with 9 Earth Connections (Ref. 60903) - 1 un; - Circuits identification sheet; - Circuits identification label; - DIN rail.	60004 1JB	4	1	217 x 275 x 35	BR
■ 8 MODULES						
	Flush Mounting Box for Panelboard - 8 Modules	60008 1GB	—	—	264 x 255 x 113	—
	Interior Fitting + Door for Panelboard - 8 Modules (1x8) ■ Accessories included: - Brass Terminals with 9 Neutral Connections (Ref. 60902) - 1 un; - Brass Terminals with 9 Earth Connections (Ref. 60903) - 1 un; - Circuits identification sheet; - Circuits identification label; - DIN rail.	60008 1JB	8	1	289 x 275 x 35	BR
■ 12 MODULES						
	Flush Mounting Box for Panelboard - 12 Modules	60012 1GB	—	—	336 x 255 x 113	—
	Interior Fitting + Door for Panelboard - 12 Modules (1x12) ■ Accessories included: - Brass Terminals with 9 Neutral Connections (Ref. 60902) - 1 un; - Brass Terminals with 9 Earth Connections (Ref. 60903) - 1 un; - Circuits identification sheet; - Circuits identification label; - DIN rail.	60012 1JB	12	1	361 x 275 x 35	BR
■ 16 MODULES						
	Flush Mounting Box for Panelboard - 16 Modules	60016 2GB	—	—	264 x 380 x 113	—
	Interior Fitting + Door for Panelboard - 16 Modules (2x8) ■ Accessories included: - Brass Terminals with 9 Neutral Connections (Ref. 60902) - 1 un; - Brass Terminals with 9 Earth Connections (Ref. 60903) - 1 un; - Circuits identification sheet; - Circuits identification label; - DIN rail.	60016 2JB	16	2	289 x 400 x 35	BR
■ 24 MODULES						
	Flush Mounting Box for Panelboard - 24 Modules	60024 2GB	—	—	336 x 380 x 113	—
	Interior Fitting + Door for Panelboard - 24 Modules (2x12) ■ Accessories included: - Brass Terminals with 9 Neutral Connections (Ref. 60902) - 2 un; - Brass Terminals with 20 Earth Connections (Ref. 60905) - 1 un; - Circuits identification sheet; - Circuits identification label; - Front Plate (Ref. 60906) - 1 un (10 modules); - DIN rail.	60024 2JB	24	2	361 x 400 x 35	BR

DISTRIBUTION PANELS

		Ref.	Mod.	Rows	W x H x D (mm)	Color
■ 32 MODULES						
	Flush Mounting Box for Panelboard - 32 Modules/16 Modules+RCD	60032 2GB	—	—	408 x 380 x 113	—
	Interior Fitting + Door for Panelboard - 32 Modules (2x16) ■ Accessories included: – Brass Terminals with 9 Neutral Connections (Ref. 60902) - 2 un; – Brass Terminals with 9 Earth Connections (Ref. 60903) - 1 un; – Brass Terminals with 20 Earth Connections (Ref. 60905) - 1 un; – Circuits identification sheet; – Circuits identification label; – Front Plate (Ref. 60906) - 1 un (10 modules); – DIN rail.	60032 2JB	32	2	433 x 400 x 35	BR
■ 40 MODULES						
	Flush Mounting Box for Panelboard - 40 Modules/24 Modules+RCD	60040 2GB	—	—	480 x 380 x 113	—
	Interior Fitting + Door for Panelboard - 40 Modules (2x20) ■ Accessories included: – Brass Terminals with 9 Neutral Connections (Ref. 60902) - 1 un; – Brass Terminals with 9 Earth Connections (Ref. 60903) - 1 un; – Brass Terminals with 20 Neutral Connections (Ref. 60904) - 1 un; – Brass Terminals with 20 Earth Connections (Ref. 60905) - 1 un; – Circuits identification sheet; – Circuits identification label; – Front Plate (Ref. 60906) - 1 un (10 modules); – DIN rail.	60040 2JB	40	2	505 x 400 x 35	BR
■ 48 MODULES						
	Flush Mounting Box for Panelboard - 48 Modules/32 Modules+RCD/ATI 6CC+12PC	60048 2GB	—	—	552 x 380 x 113	—
	Interior Fitting + Door for Panelboard - 48 Modules (2x24) ■ Accessories included: – Brass Terminals with 9 Neutral Connections (Ref. 60902) - 2 un; – Brass Terminals with 20 Neutral Connections (Ref. 60904) - 1 un; – Brass Terminals with 20 Earth Connections (Ref. 60905) - 2 un; – Circuits identification sheet; – Circuits identification label; – Front Plate (Ref. 60906) - 1 un (10 modules); – DIN rail.	60048 2JB	48	2	577 x 400 x 35	BR
■ 60 MODULES						
	Flush Mounting Box for Panelboard - 60 Modules/44 Modules+RCD/ATI 12CC+24PC	60060 3GB	—	—	480 x 505 x 113	—
	Interior Fitting + Door for Panelboard - 60 Modules (3x20) ■ Accessories included: – Brass Terminals with 9 Neutral Connections (Ref. 60902) - 2 un; – Brass Terminals with 20 Neutral Connections (Ref. 60904) - 1 un; – Brass Terminals with 20 Earth Connections (Ref. 60905) - 2 un; – Circuits identification sheet; – Circuits identification label; – Front Plate (Ref. 60906) - 1 un (10 modules); – DIN rail.	60060 3JB	60	3	505 x 525 x 35	BR
■ 80 MODULES						
	Flush Mounting Box for Panelboard - 80 Modules/64 Modules+RCD	60080 4GB	—	—	480 x 630 x 113	—
	Interior Fitting + Door for Panelboard - 80 Modules (4x20) ■ Accessories included: – Brass Terminals with 9 Neutral Connections (Ref. 60902) - 1 un; – Brass Terminals with 20 Neutral Connections (Ref. 60904) - 2 un; – Brass Terminals with 20 Earth Connections (Ref. 60905) - 3 un; – Circuits identification sheet; – Circuits identification label; – Front Plate (Ref. 60906) - 2 un (10 modules); – DIN rail.	60080 4JB	80	4	505 x 650 x 35	BR

RCD (POWER CONTROL DEVICE) INCOMER PANELS

		Ref.	Mod.	Rows	W x H x D (mm)	Color
■ 16 MODULES + RCD						
	Flush Mounting Box for Panelboard - 32 Modules/16 Modules+RCD ■ RCD occupies 16 DIN Modules.	60032 2GB	—	—	408 x 380 x 113	—
	Interior Fitting + Door for Panelboard - 16 Modules (2x8)+RCD ■ Accessories included: - Inner Box for RCD; - Brass Terminals with 9 Neutral Connections (Ref. 60902) - 1 un; - Brass Terminals with 9 Earth Connections (Ref. 60903) - 1 un; - Circuits identification sheet; - Circuits identification label; - Front Plate (Ref. 60906) - 1 un (10 modules); - DIN rail.	60016 2KB	16	2	433 x 400 x 35	BR
■ 24 MODULES + RCD						
	Flush Mounting Box for Panelboard - 40 Modules/24 Modules+RCD ■ RCD occupies 16 DIN Modules.	60040 2GB	—	—	480 x 380 x 113	—
	Interior Fitting + Door for Panelboard - 24 Modules (2x12)+RCD ■ Accessories included: - Inner Box for RCD; - Brass Terminals with 9 Neutral Connections (Ref. 60902) - 2 un; - Brass Terminals with 20 Earth Connections (Ref. 60905) - 1 un; - Circuits identification sheet; - Circuits identification label; - Front Plate (Ref. 60906) - 1 un (10 modules); - DIN rail.	60024 2KB	24	2	505 x 400 x 35	BR
■ 32 MODULES + RCD						
	Flush Mounting Box for Panelboard - 48 Modules/32 Modules+RCD/ATI 6CC+12PC ■ RCD occupies 16 DIN Modules.	60048 2GB	—	—	552 x 380 x 113	—
	Interior Fitting + Door for Panelboard - 32 Modules (2x16)+RCD ■ Accessories included: - Inner Box for RCD; - Brass Terminals with 9 Neutral Connections (Ref. 60902) - 2 un; - Brass Terminals with 20 Earth Connections (Ref. 60905) - 1 un; - Circuits identification sheet; - Circuits identification label; - Front Plate (Ref. 60906) - 1 un (10 modules); - DIN rail.	60032 2KB	32	2	577 x 400 x 35	BR
■ 44 MODULES + RCD						
	Flush Mounting Box for Panelboard - 60 Modules/44 Modules+RCD/ATI 12CC+24PC ■ RCD occupies 16 DIN Modules.	60060 3GB	—	—	480 x 505 x 113	—
	Interior Fitting + Door for Panelboard - 44 Modules (2x12+1x20)+RCD ■ Accessories included: - Inner Box for RCD; - Brass Terminals with 9 Neutral Connections (Ref. 60902) - 1 un; - Brass Terminals with 20 Neutral Connections (Ref. 60904) - 1 un; - Brass Terminals with 20 Earth Connections (Ref. 60905) - 2 un; - Circuits identification sheet; - Circuits identification label; - Front Plate (Ref. 60906) - 1 un (10 modules); - DIN rail.	60044 3KB	44	3	505 x 525 x 35	BR
■ 64 MODULES + RCD						
	Flush Mounting Box for Panelboard - 80 Modules/64 Modules+RCD ■ RCD occupies 16 DIN Modules.	60080 4GB	—	—	480 x 630 x 113	—
	Interior Fitting + Door for Panelboard - 64 Modules (2x12+2x20)+RCD ■ Accessories included: - Inner Box for RCD; - Brass Terminals with 9 Neutral Connections (Ref. 60902) - 2 un; - Brass Terminals with 20 Neutral Connections (Ref. 60904) - 1 un; - Brass Terminals with 20 Earth Connections (Ref. 60905) - 2 un; - Circuits identification sheet; - Circuits identification label; - Front Plate (Ref. 60906) - 2 un (10 modules); - DIN rail.	60064 4KB	64	4	505 x 650 x 35	BR

See Technical Data Sheet - page 222-225.

■ RCD - Power Control Device; CC - Coaxial Cable Outputs; PC - Copper Pair Outputs; ATI - Individual Telecommunications Panel.
 ■ BR - White.

TELECOMMUNICATIONS PANELS - ATI (INDIVIDUAL TELECOMMUNICATIONS PANEL)							Ref.	Mod.	Rows	W x H x D (mm)	Color
■ 6 COAXIAL CABLE OUTPUTS (CC) AND UP TO 12 COPPER PAIR OUTPUTS (PC)											
	Flush Mounting Box for Panelboard - 48 Modules/32 Modules+RCD/ATI 6CC+12PC	60048 2GB	—	—	552 x 380 x 113	—					
	Interior Fitting and Door for ATI - 6CC+12PC ■ Accessories included: - PC Splitter with connectors Cat. 6 UTP (1 input, 6 outputs, expandable to 12 outputs); - Double Coaxial Splitter (2 inputs and 2 x 6 outputs); - FO Splitter with SC/APC Simplex Optical Fibre Coupler; - F type 90° Male Plug Compression (Ref. 82605) - 8 un; - 75 Ohms type "F" terminations (Ref. 82681) - 6 un; - Brass Terminals with 9 Earth Connections (Ref. 60903) - 1 un; - Schuko Socket (Ref. 45132 SBR) - 1 un; - Terminal sockets identification sheet; - Terminal sockets identification label.	60048 2LB	—	—	577 x 400 x 35	BR					
■ 8 COAXIAL CABLE OUTPUTS (CC) AND UP TO 24 COPPER PAIR OUTPUTS (PC)											
	Flush Mounting Box for Panelboard - 60 Modules/44 Modules+RCD/ATI 12CC+24PC	60060 3GB	—	—	480 x 505 x 113	—					
	Interior Fitting and Door for ATI - 8CC+24PC NEW ■ Accessories included: - PC Splitter with connectors Cat. 6 UTP (1 input e 12 outputs, expandable to 24 outputs); - Double Coaxial Splitter (2 inputs and 2 x 8 outputs); - FO Splitter with SC/APC Simplex Optical Fibre Coupler; - F type 90° Male Plug Compression (Ref. 82605) - 10 un; - 75 Ohms type "F" terminations (Ref. 82681) - 8 un; - Brass Terminals with 9 Earth Connections (Ref. 60903) - 1 un; - Schuko Socket (Ref. 45132 SBR) - 1 un; - Terminal sockets identification sheet; - Terminal sockets identification label.	60060 3NB	—	—	505x525x35	BR					
■ 12 COAXIAL CABLE OUTPUTS (CC) AND UP TO 24 COPPER PAIR OUTPUTS (PC)											
	Flush Mounting Box for Panelboard - 60 Modules/44 Modules+RCD/ATI 12CC+24PC	60060 3GB	—	—	480 x 505 x 113	—					
	Interior Fitting and Door for ATI - 12CC+24PC ■ Accessories included: - PC Splitter with connectors Cat. 6 UTP (1 input e 12 outputs, expandable to 24 outputs); - Double Coaxial Splitter (2 inputs and 2 x 12 outputs); - FO Splitter with SC/APC Simplex Optical Fibre Coupler; - F type 90° Male Plug Compression (Ref. 82605) - 14 un; - 75 Ohms type "F" terminations (Ref. 82681) - 12 un; - Brass Terminals with 9 Earth Connections (Ref. 60903) - 1 un; - Schuko Socket (Ref. 45132 SBR) - 1 un; - Terminal sockets identification sheet; - Terminal sockets identification label	60060 3MB	—	—	505 x 525 x 35	BR					

TELECOMMUNICATION PANELS - CATI (TELECOM AUXILIAR BOX)										
						Ref.	Mod.	Rows	W x H x D (mm)	Color
■ CATI TO ATI WITH 6 COAXIAL CABLE OUTPUTS (CC) AND UP TO 12 COPPER PAIR OUTPUTS (PC)										
	Flush Mounting Box for Panelboard - 48 Modules/32 Modules+RCD/ATI 6CC+12PC					60048 2GB	—	—	552 x 380 x 113	—
	Door for Box - 48 Modules (CATI)					60048 2QB	—	—	577 x 400 x 30	BR
■ CATI TO ATI WITH 12 COAXIAL CABLE OUTPUTS (CC) AND UP TO 24 COPPER PAIR OUTPUTS (PC)										
	Flush Mounting Box for Panelboard - 60 Modules/44 Modules+RCD/ATI 12CC+24PC					60060 3GB	—	—	480 x 505 x 113	—
	Door for Box - 60 Modules (CATI)					60060 3RB	—	—	505 x 525 x 30	BR

NEW

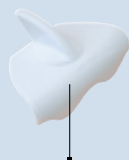
ATI to Complet Soak - **8CC+24PC** - Ref. 60060 3NB



ACCESSORIES



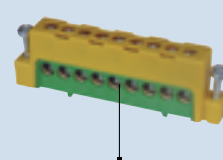
Panelboard Keylock



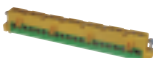
Panelboard Rotary Lever Lock



Brass Terminals with 9 Phase Connections

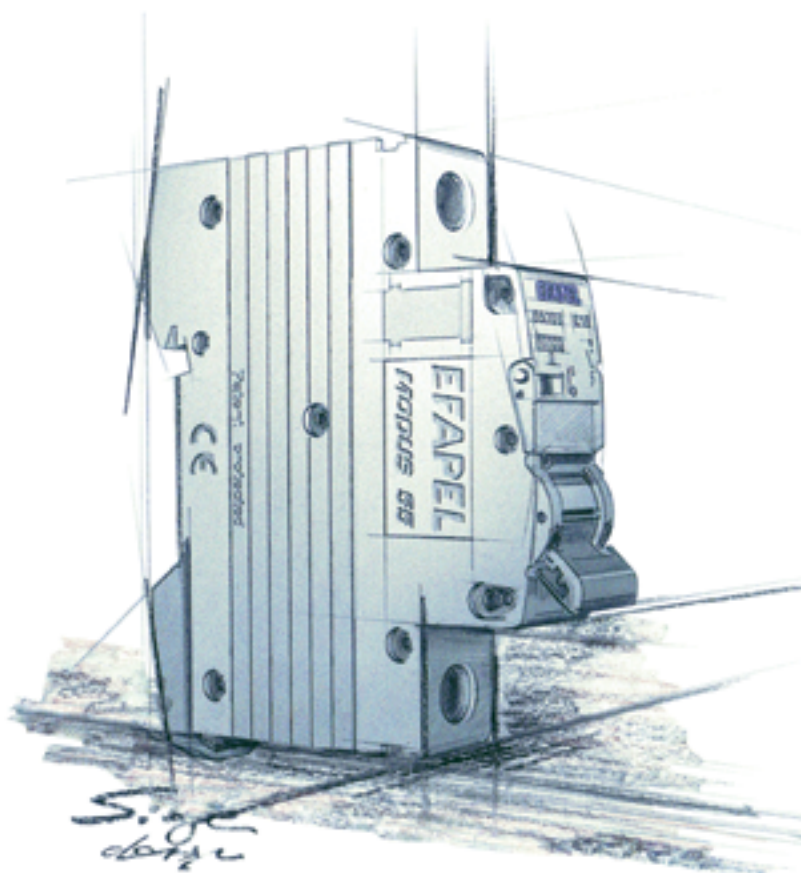


Brass Terminals with 9 Earth Connections

		Ref.	Color
	Panelboard Keylock	60900	—
	Panelboard Rotary Lever Lock	60910	—
	Brass Terminals with 9 Phase Connections	60901	—
	Brass Terminals with 9 Neutral Connections	60902	—
	Brass Terminals with 9 Earth Connections	60903	—
	Brass Terminals with 20 Neutral Connections	60904	—
	Brass Terminals with 20 Earth Connections	60905	—
	Front Plate ■ 10 modules.	60906	—
	Optical Fibre Terminal Box	60907	—
	Coaxial Splitter 2x6 Outputs ■ F Type, 5-2400MHz, 30V 700mA Flow DC.	60911	—
	Coaxial Splitter 2x8 Outputs ■ F Type, 5-2400MHz, 30V 700mA Flow DC.	60913	—
	Coaxial Splitter 2x12 Outputs ■ F Type, 5-2400MHz, 30V 700mA Flow DC.	60912	—

NEW

MODUS 55

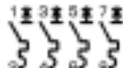


Developed thinking about you and your safety, the MODUS 55 has a wide range of solutions for the protection of equipments and people.

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MINIATURE CIRCUIT BREAKERS (MCB) - PLUS TYPE

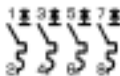
EN / IEC 60898-1

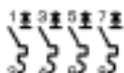
Symbol	Designation	Rated Current (A)	Mod. DIN	Ref. / Tripping Curve: B	Ref. / Tripping Curve: C	Ref. / Tripping Curve: D
 	MCB - 1P - 4,5kA 230/400V~ - 50/60Hz	6	1	—	55106 1CP	—
		10		—	55110 1CP	—
		16		—	55116 1CP	—
		20		—	55120 1CP	—
		25		—	55125 1CP	—
		32		—	55132 1CP	—
		40		—	55140 1CP	—
		50		—	55150 1CP	—
		63		—	55163 1CP	—
 	MCB - 1P+N - 4,5kA 230V~ - 50/60Hz	2	1	—	55102 5CP	—
		6		—	55106 5CP	—
		10		—	55110 5CP	—
		16		—	55116 5CP	—
		20		—	55120 5CP	—
		25		—	55125 5CP	—
		32		—	55132 5CP	—
 	MCB - 1P+N - 4,5kA 230V~ - 50/60Hz	40	2	—	55140 6CP	—
		50		—	55150 6CP	—
		63		—	55163 6CP	—
 	MCB - 2P - 4,5kA 400V~ - 50/60Hz	6	2	—	55106 2CP	—
		10		—	55110 2CP	—
		16		—	55116 2CP	—
		20		—	55120 2CP	—
		25		—	55125 2CP	—
		32		—	55132 2CP	—
		40		—	55140 2CP	—
		50		—	55150 2CP	—
		63		—	55163 2CP	—
 	MCB - 3P - 4,5kA 400V~ - 50/60Hz	6	3	—	55106 3CP	—
		10		—	55110 3CP	—
		16		—	55116 3CP	—
		20		—	55120 3CP	—
		25		—	55125 3CP	—
		32		—	55132 3CP	—
		40		—	55140 3CP	—
		50		—	55150 3CP	—
		63		—	55163 3CP	—
 	MCB - 4P - 4,5kA 400V~ - 50/60Hz	6	4	—	55106 4CP	—
		10		—	55110 4CP	—
		16		—	55116 4CP	—
		20		—	55120 4CP	—
		25		—	55125 4CP	—
		32		—	55132 4CP	—
		40		—	55140 4CP	—
		50		—	55150 4CP	—
		63		—	55163 4CP	—

MINIATURE CIRCUIT BREAKERS (MCB) - SUPER TYPE					EN / IEC 60898-1		
Symbol	Designation	Rated Current (A)	Mod. DIN	Ref. / Tripping Curve: B	Ref. / Tripping Curve: C	Ref. / Tripping Curve: D	
 	MCB - 1P - 6kA 230/400V~ - 50/60Hz	1	1	55101 1BS	55101 1CS	55101 1DS	
		2		55102 1BS	55102 1CS	55102 1DS	
		3		55103 1BS	55103 1CS	55103 1DS	
		4		55104 1BS	55104 1CS	55104 1DS	
		6		55106 1BS	55106 1CS	55106 1DS	
		10		55110 1BS	55110 1CS	55110 1DS	
		16		55116 1BS	55116 1CS	55116 1DS	
		20		55120 1BS	55120 1CS	55120 1DS	
		25		55125 1BS	55125 1CS	55125 1DS	
		32		55132 1BS	55132 1CS	55132 1DS	
		40		55140 1BS	55140 1CS	55140 1DS	
		50		55150 1BS	55150 1CS	55150 1DS	
63	55163 1BS	55163 1CS	55163 1DS				
 	MCB - 1P+N - 6kA 230V~ - 50/60Hz	1	2	55101 6BS	55101 6CS	—	
		2		55102 6BS	55102 6CS	—	
		3		55103 6BS	55103 6CS	—	
		4		55104 6BS	55104 6CS	—	
		6		55106 6BS	55106 6CS	—	
		10		55110 6BS	55110 6CS	—	
		16		55116 6BS	55116 6CS	—	
		20		55120 6BS	55120 6CS	—	
		25		55125 6BS	55125 6CS	—	
		32		55132 6BS	55132 6CS	—	
		40		55140 6BS	55140 6CS	—	
		50		55150 6BS	55150 6CS	—	
63	55163 6BS	55163 6CS	—				
 	MCB - 2P - 6kA 400V~ - 50/60Hz	1	2	55101 2BS	55101 2CS	55101 2DS	
		2		55102 2BS	55102 2CS	55102 2DS	
		3		55103 2BS	55103 2CS	55103 2DS	
		4		55104 2BS	55104 2CS	55104 2DS	
		6		55106 2BS	55106 2CS	55106 2DS	
		10		55110 2BS	55110 2CS	55110 2DS	
		16		55116 2BS	55116 2CS	55116 2DS	
		20		55120 2BS	55120 2CS	55120 2DS	
		25		55125 2BS	55125 2CS	55125 2DS	
		32		55132 2BS	55132 2CS	55132 2DS	
		40		55140 2BS	55140 2CS	55140 2DS	
		50		55150 2BS	55150 2CS	55150 2DS	
		63		55163 2BS	55163 2CS	55163 2DS	

MINIATURE CIRCUIT BREAKERS (MCB) - SUPER TYPE

EN / IEC 60898-1

Symbol	Designation	Rated Current (A)	Mod. DIN	Ref. / Tripping Curve: B	Ref. / Tripping Curve: C	Ref. / Tripping Curve: D
 	MCB - 3P - 6kA 400V~ - 50/60Hz	1	3	55101 3BS	55101 3CS	55101 3DS
		2		55102 3BS	55102 3CS	55102 3DS
		3		55103 3BS	55103 3CS	55103 3DS
		4		55104 3BS	55104 3CS	55104 3DS
		6		55106 3BS	55106 3CS	55106 3DS
		10		55110 3BS	55110 3CS	55110 3DS
		16		55116 3BS	55116 3CS	55116 3DS
		20		55120 3BS	55120 3CS	55120 3DS
		25		55125 3BS	55125 3CS	55125 3DS
		32		55132 3BS	55132 3CS	55132 3DS
		40		55140 3BS	55140 3CS	55140 3DS
		50		55150 3BS	55150 3CS	55150 3DS
		63		55163 3BS	55163 3CS	55163 3DS
 	MCB - 4P - 6kA 400V~ - 50/60Hz	1	4	55101 4BS	55101 4CS	55101 4DS
		2		55102 4BS	55102 4CS	55102 4DS
		3		55103 4BS	55103 4CS	55103 4DS
		4		55104 4BS	55104 4CS	55104 4DS
		6		55106 4BS	55106 4CS	55106 4DS
		10		55110 4BS	55110 4CS	55110 4DS
		16		55116 4BS	55116 4CS	55116 4DS
		20		55120 4BS	55120 4CS	55120 4DS
		25		55125 4BS	55125 4CS	55125 4DS
		32		55132 4BS	55132 4CS	55132 4DS
		40		55140 4BS	55140 4CS	55140 4DS
		50		55150 4BS	55150 4CS	55150 4DS
		63		55163 4BS	55163 4CS	55163 4DS

MINIATURE CIRCUIT BREAKERS (MCB) - ULTRA TYPE					EN / IEC 60898-1		
Symbol	Designation	Rated Current (A)	Mod. DIN	Ref. / Tripping Curve: B	Ref. / Tripping Curve: C	Ref. / Tripping Curve: D	
 	MCB - 1P - 10kA 230/400V~ - 50/60Hz	1	1	55101 1BU	55101 1CU	55101 1DU	
		2		55102 1BU	55102 1CU	55102 1DU	
		3		55103 1BU	55103 1CU	55103 1DU	
		4		55104 1BU	55104 1CU	55104 1DU	
		6		55106 1BU	55106 1CU	55106 1DU	
		10		55110 1BU	55110 1CU	55110 1DU	
		16		55116 1BU	55116 1CU	55116 1DU	
		20		55120 1BU	55120 1CU	55120 1DU	
		25		55125 1BU	55125 1CU	55125 1DU	
		32		55132 1BU	55132 1CU	55132 1DU	
		40		55140 1BU	55140 1CU	55140 1DU	
		50		55150 1BU	55150 1CU	55150 1DU	
		63		55163 1BU	55163 1CU	55163 1DU	
 	MCB - 2P - 10kA 400V~ - 50/60Hz	1	2	55101 2BU	55101 2CU	55101 2DU	
		2		55102 2BU	55102 2CU	55102 2DU	
		3		55103 2BU	55103 2CU	55103 2DU	
		4		55104 2BU	55104 2CU	55104 2DU	
		6		55106 2BU	55106 2CU	55106 2DU	
		10		55110 2BU	55110 2CU	55110 2DU	
		16		55116 2BU	55116 2CU	55116 2DU	
		20		55120 2BU	55120 2CU	55120 2DU	
		25		55125 2BU	55125 2CU	55125 2DU	
		32		55132 2BU	55132 2CU	55132 2DU	
		40		55140 2BU	55140 2CU	55140 2DU	
		50		55150 2BU	55150 2CU	55150 2DU	
		63		55163 2BU	55163 2CU	55163 2DU	
 	MCB - 3P - 10kA 400V~ - 50/60Hz	1	3	55101 3BU	55101 3CU	55101 3DU	
		2		55102 3BU	55102 3CU	55102 3DU	
		3		55103 3BU	55103 3CU	55103 3DU	
		4		55104 3BU	55104 3CU	55104 3DU	
		6		55106 3BU	55106 3CU	55106 3DU	
		10		55110 3BU	55110 3CU	55110 3DU	
		16		55116 3BU	55116 3CU	55116 3DU	
		20		55120 3BU	55120 3CU	55120 3DU	
		25		55125 3BU	55125 3CU	55125 3DU	
		32		55132 3BU	55132 3CU	55132 3DU	
		40		55140 3BU	55140 3CU	55140 3DU	
		50		55150 3BU	55150 3CU	55150 3DU	
		63		55163 3BU	55163 3CU	55163 3DU	
 	MCB - 4P - 10kA 400V~ - 50/60Hz	1	4	55101 4BU	55101 4CU	55101 4DU	
		2		55102 4BU	55102 4CU	55102 4DU	
		3		55103 4BU	55103 4CU	55103 4DU	
		4		55104 4BU	55104 4CU	55104 4DU	
		6		55106 4BU	55106 4CU	55106 4DU	
		10		55110 4BU	55110 4CU	55110 4DU	
		16		55116 4BU	55116 4CU	55116 4DU	
		20		55120 4BU	55120 4CU	55120 4DU	
		25		55125 4BU	55125 4CU	55125 4DU	
		32		55132 4BU	55132 4CU	55132 4DU	
		40		55140 4BU	55140 4CU	55140 4DU	
		50		55150 4BU	55150 4CU	55150 4DU	
		63		55163 4BU	55163 4CU	55163 4DU	

RESIDUAL CURRENT CIRCUIT BREAKER (RCCB) - DIF TYPE

EN / IEC 61008-1

Symbol	Designation	Rated Current (A)	Mod. DIN	Ref. / Class: AC ()	Ref. / Class: A ()
	RCCB 2P - 10mA	16	2	55616 2AC	—
		25		55625 2AC	—
	RCCB 2P - 30mA	16	2	55616 2BC	55616 2BA
		25		55625 2BC	55625 2BA
		40		55640 2BC	55640 2BA
		63		55663 2BC	55663 2BA
	RCCB 2P - 300mA	25	2	55625 2DC	55625 2DA
		40		55640 2DC	55640 2DA
		63		55663 2DC	55663 2DA
	RCCB 2P - 500mA	25	2	55625 2EC	—
		40		55640 2EC	—
		63		55663 2EC	—
	RCCB 4P - 30mA	25	4	55625 4BC	55625 4BA
		40		55640 4BC	55640 4BA
		63		55663 4BC	55663 4BA
	RCCB 4P - 300mA	25	4	55625 4DC	55625 4DA
		40		55640 4DC	55640 4DA
		63		55663 4DC	55663 4DA
	RCCB 4P - 500mA	25	4	55625 4EC	—
		40		55640 4EC	—
		63		55663 4EC	—

 **Transient Protection** - Residual Current Circuit Breakers - DIF Type are protected against nuisance tripping caused by transient leakage currents (lightning, capacitive loads).

 **AC Class** - For general purpose, protects the environment in the presence of current leakage with a purely sinusoidal waveform.

 **A Class** - For facilities with equipments such as rectifiers, triacs, etc., that may cause a leakage of current with DC current components, undetectable by the AC Class devices.

RESIDUAL CURRENT CIRCUIT BREAKER WITH OVERCURRENT PROTECTION (RCBO) - COMBI TYPE

EN / IEC 61009-1

Symbol	Designation	Rated Current (A)	Mod. DIN	Ref. / Class / Curve: AC () / C
	RCBO 1P+N - 6kA - 30mA	6	2	55306 6BY
		10		55310 6BY
		16		55316 6BY
		20		55320 6BY
		25		55325 6BY
		32		55332 6BY
		40		55340 6BY

 **Transient Protection** - Residual Current Circuit Breakers with Overcurrent Protection - COMBI Type are protected against random tripping caused by transient leakage currents (lightning, capacitive loads).

 **AC Class** - For general purpose, protects the environment in the presence of current leakage with a purely sinusoidal waveform.

OVER-VOLTAGE AND SURGE PROTECTION DEVICES (SPD) - POWER TYPE
IEC 61643-1

Symbol	Designation	Rated Voltage (Un/Uc)	I _{max} (kA)	Mod. DIN	Ref.
 	SPD - 1P See Technical Data Sheet - page 235.	230/320V~ 50/60Hz	10	1	55410 1DC
 	SPD - 1P See Technical Data Sheet - page 235.	230/320V~ 50/60Hz	20		55420 1DC
 	SPD - 1P See Technical Data Sheet - page 235.	230/320V~ 50/60Hz	40		55440 1DC
 	SPD - 1P See Technical Data Sheet - page 235.	380/420V~ 50/60Hz	60		55460 1DC

SWITCHES, SIGNALLING DEVICES AND ENERGY MANAGEMENT
ISOLATOR SWITCHES
IEC 60947-3

Symbol	Designation	Rated Voltage (COV) (Un)	Rated Current I _n (A)	Mod. DIN	Ref.
 	Isolator Switch - 1P See Technical Data Sheet - page 236.	250/415V~ 50/60Hz	25 32 40 63 80 100	1	55525 1IT 55532 1IT 55540 1IT 55563 1IT 55580 1IT 55500 1IT
 	Isolator Switch - 2P See Technical Data Sheet - page 236.	250/415V~ 50/60Hz	25 32 40 63 80 100	2	55525 2IT 55532 2IT 55540 2IT 55563 2IT 55580 2IT 55500 2IT
 	Isolator Switch - 3P See Technical Data Sheet - page 236.	250/415V~ 50/60Hz	25 32 40 63 80 100	3	55525 3IT 55532 3IT 55540 3IT 55563 3IT 55580 3IT 55500 3IT
 	Isolator Switch - 4P See Technical Data Sheet - page 236.	250/415V~ 50/60Hz	25 32 40 63 80 100	4	55525 4IT 55532 4IT 55540 4IT 55563 4IT 55580 4IT 55500 4IT

SWITCHES, SIGNALLING DEVICES AND ENERGY MANAGEMENT

FUSE HOLD SWITCH

	Designation	Mod. DIN	Ref.
	Fuse Disconnecter Single Pole 10x38 See Technical Data Sheet - page 244.	1	55545

NEW

INDICATORS

Symbol	Designation	Color	Power (W)	Mod. DIN	Ref.
	Pilot Lamp with Diffuser 230V~ - 50/60Hz	Green			55560 VRD
		Red	< 1	1	55560 VRM
		Orange			55560 LAR
	3-Phase Voltage Indicator 230V~ - 50/60Hz See Technical Data Sheet - page 237.		1,5	1	55009
	1-Phase Voltage Value Indicator 230V~ - 50/60Hz ■ Voltage Level: 195 - 245V~. See Technical Data Sheet - page 238.		5,5	1	55010
	3-Phase Voltage Value Indicator 230V~ - 50/60Hz ■ Voltage Level: 195 - 245V~. See Technical Data Sheet - page 239.		15,5	2	55011

DOORBELL TRANSFORMER

Symbol	Designation	Power	Secondary Voltage (V)	Mod. DIN	Ref.
	Doorbell Transformer 230V~ - 50/60Hz	8VA	8 - 12 - 24	2	55508 TRF

DOORBELL

Symbol	Designation	Power	Voltage (V)	Mod. DIN	Ref.
	Doorbell	5VA	12		55505 CMP
		6,5VA	230	1	55565 CMP

STAIRCASES TIME-DELAY SWITCH

	Designation	Rated Current (In)	Mod. DIN	Ref.
	Electronic Staircase Time-Delay Switch 16A 230V~ - 50/60Hz ■ Operating Time Regulation: 10 sec. - 10 min. ■ Silent. See Technical Data Sheet - page 240.	16	1	55030
	Staircase Time-Delay Switch 16A with Blockage 230V~ - 50/60Hz ■ Operating Time Regulation: 3 min. - 30 min. ■ Silent. See Technical Data Sheet - page 241.	16	1	55031
	Staircase Time-Delay Switch 10A 230V~ - 50/60Hz See Technical Data Sheet - page 242.	10	1	55510 SPA

CONTACTORS

	Designation	Type	Rated Current (A)	Mod. DIN	Ref.
	Two-pole Contactor 230V~ - 50/60Hz See Technical Data Sheet - page 243.	2NO	20	1	55020 2NA
		2NC	20	1	55020 2NF
		1NO+1NC	20	1	55020 2AF
	Two-pole Manual Contactor 230V~ - 50/60Hz See Technical Data Sheet - page 243.	2NO	20	1	55020 2MA
		2NC	20	1	55020 2MF
	Four-pole Contactor 230V~ - 50/60Hz See Technical Data Sheet - page 243.	4NO	25	2	55025 4NA
		4NC	25	2	55025 4NF
		4NO	63	3	55063 4NA
		4NC	63	3	55063 4NF

SWITCHES, SIGNALLING DEVICES AND ENERGY MANAGEMENT

LATCHING RELAY

	Designation	Type	Rated Current (A)	Mod. DIN	Ref.
	Electronic Latching Relay 16A 230V~ - 50/60Hz ■ Silent. ■ See Technical Data Sheet - page 245.	1NO	16	1	55017

TIME SWITCHES

	Designation	Type	Rated Current (A)	Mod. DIN	Ref.
	1 Channel Analogue Daily Time Switch 230V~ - 50/60Hz ■ See Technical Data Sheet - page 246.	Analogue Daily	16	1	55501 ANL
	1 Channel Digital Weekly Time Switch 230V~ - 50/60Hz ■ Operation Mode: Manual, Automatic, Random. ■ Output Type: ON, OFF and Pulse. ■ Memory Space: 400 memories. ■ Activation possible with Rockers Push-buttons. ■ See Technical Data Sheet - page 247.	Digital / Weekly	16	2	55037
	1 Channel Digital Daily/ Weekly Time Switch 230V~ - 50/60Hz ■ See Technical Data Sheet - page 248.	Digital Daily/ Weekly	16	2	55501 DIG
	2 Channels Digital Weekly Time Switch 230V~ - 50/60Hz ■ Operation Mode: Manual, Automatic, Random. ■ Output Type: ON, OFF and Pulse. ■ Memory Space: 400 memories. ■ Activation possible with Rockers Push-buttons. ■ See Technical Data Sheet - page 247.	Digital / Weekly	16	2	55039

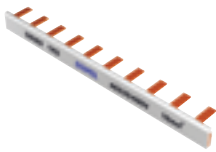
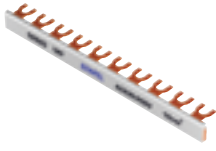
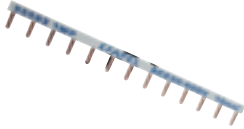
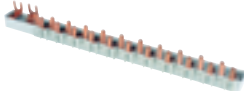
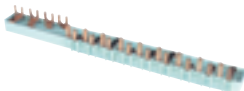
DIMMER

	Designation	Output Power (W)	Mod. DIN	Ref.
	Modular Electronic Dimmer 230V~ - 50/60Hz ■ Connect to Rockers Push-buttons. ■ Recommended Maximum Loads: - Incandescent Lamps: 500W. - Dimmable compact fluorescent lamps: 300W. - Very-low voltage halogen lamps connected through magnetic lighting transformers: 500W. - Very-low voltage halogen lamps connected through electronic lighting transformers: 500W.. ■ Silent. ■ See Technical Data Sheet - page 249.	30-500	2	55020

CONTROL RELAYS

	Designation	Type	Rated Current (A)	Mod. DIN	Ref.
	Voltage Control Relay Single Phase 230V~ - 50/60Hz ■ Minimum Voltage: 170 - 225V~. ■ Maximum Voltage: 235 - 290V~. See Technical Data Sheet - page 250.	1NO+NC	—	1	55024
	Current Control Relay Single Phase 16A 230V~ - 50/60Hz ■ Adjusting Current Value: 1,6 - 16A. See Technical Data Sheet - page 251.	1NO+NC	16A	1	55025

BUSBARS

	Designation	Imax (A)	Length (m)	Ref.
Pin Type Busbars				
	Pin Type Busbars - 1P			55563 1PD
	Pin Type Busbars - 2P			55563 2PD
	Pin Type Busbars - 3P	63	1	55563 3PD
	Pin Type Busbars - 4P			55563 4PD
"U" Type Busbars				
	"U" Type Busbars - 1P			55563 1PF
	"U" Type Busbars - 2P			55563 2PF
	"U" Type Busbars - 3P	63	1	55563 3PF
	"U" Type Busbars - 4P			55563 4PF
Flat Busbars				
	Flat Busbars - 1P - 13 Teeth		—	55563 1WP
	Flat Busbars - 1P	63	1	55563 1PP
"U" Type Busbars/Flat				
 	"U" Type Busbars/Flat 13 Modules 1P+N		—	55563 5PR
	"U" Type Busbars/Flat 13 Modules 3P+N	63	—	55563 6PR

BUSBARS

Designation	Ref.
Top for Pin Type Busbars	
 Top for Pin Type Busbar - 1P	55563 1TP
 Top for Pin Type Busbar - 2P	55563 2TP
 Top for Pin Type Busbar - 3P	55563 3TP
 Top for Pin Type Busbar - 4P	55563 4TP

ENERGY SOCKETS

IEC 60884-1

	Designation	Color	Rated Current (A)	Mod. DIN	Ref.
	Safety Earth Socket (Schuko Type) 16A - 250V~	White Red Orange	16	2,5	55532 CBR 55532 CVM 55532 CLR
	Earth Socket (Schuko Type) 16A - 250V~	White Red Orange			55531 CBR 55531 CVM 55531 CLR
	Earth Socket (Schuko Type) with Blockage 16A - 250V~ ■ Supplied with Blocking Pin for Q45 Series Sockets (Ref. 45991).	Vermelho			55536 CVM
	Earth Socket (Schuko Type) with Blockage and Signal Light 16A - 250V~ ■ Supplied with Blocking Pin for Q45 Series Sockets (Ref. 45991).				55537 CVM
	Safety Earth Socket (French Type) 16A - 250V~	White Red Orange			55512 CBR 55512 CVM 55512 CLR
	Earth Socket (French Type) 16A - 250V~	White Red Orange			55511 CBR 55511 CVM 55511 CLR
	Earth Socket (French Type) with Blockage 16A - 250V~ ■ Supplied with Blocking Pin for Q45 Series Sockets (Ref. 45991).	Red			55516 CVM
	Earth Socket (French Type) with Blockage and Signal Light 16A - 250V~ ■ Supplied with Blocking Pin for Q45 Series Sockets (Ref. 45991).				55517 CVM

ACCESSORIES

Designation	Color	Rated Current (A)	Mod. DIN	Ref.
 Adapter for Q45 Modules to PANELBOARDS	BR	—	—	45990 A
 Blocking Pin for Q45 Series Sockets	—	—	—	45991
 Two Lateral Connector IP2X ■ Terminal's Capacity to 25mm².	—	63	1	55563 1LG

ACCESSORIES FOR ELECTRICAL INSTALLATIONS

LAMPS

		Ref.	Color
	Large E14-5W Lamp 250V~	81011	—
	Small E14-5W Lamp 250V~	81012	—
	Small E14 LED Lamp	81013	—

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PLASTIC FITTINGS

		Ref.	Color
	5 Fitting (Packaging of 100 Un)	81052	—
	5 Fitting (Packaging of 500 Un)	81053	—
	5 Fitting (Packaging of 1000 Un)	81054	—
	5 Fitting (Packaging of 5000 Un)	81055	—
	6 Fitting (Packaging of 100 Un)	81062	—
	6 Fitting (Packaging of 500 Un)	81063	—
	6 Fitting (Packaging of 1000 Un)	81064	—
	6 Fitting (Packaging of 5000 Un)	81065	—
	8 Fitting (Packaging of 100 Un)	81082	—
	8 Fitting (Packaging of 500 Un)	81083	—
	8 Fitting (Packaging of 1000 Un)	81084	—
	10 Fitting (Packaging of 100 Un)	81102	—
	10 Fitting (Packaging of 500 Un)	81103	—
	10 Fitting (Packaging of 1000 Un)	81104	—

LAMP-HOLDERS

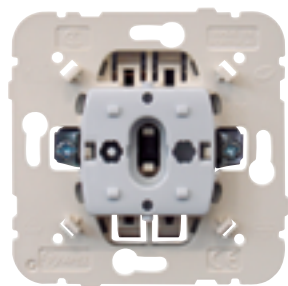
		Ref.	Color
	E27 Lamp-holder (for Luminaires) 4A - 250V~	81211	—
	E27 Lamp-holder for Table Lamps 4A - 250V~	81221	—
	E27 Base Lamp-holder 200W Máx. - 250V~	81251	—

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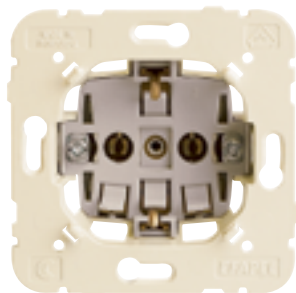
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DESCRIPTION



- Single Mechanism for Flush Mounting Devices

LOGUS⁹⁰ | APOLO 5000 | **sirius70**.



- The IP44 Kit for mechanisms of **single rocker** (Ref. 21981) and **double rockers** (Ref. 21982) assures the **Protection Degree IP44** to the Mechanisms of the MEC 21 Series.

CHARACTERISTICS

- Mechanisms in technical thermoplastic - resistant material, non-conductive.

- Control Devices

- 10A - 250V~ - connections with screwless terminals.
- 16A e 20A - 250V~ - connections with screw terminals.
- In accordance with EN 60669-1 Standard.

- Energy Sockets

- Earth Socket (Schuko and French types):

- 16A - 250V~.
- Connections with screw terminals or **screwless terminals**.
- In accordance with IEC 60884-1; DIN VDE 0620-1 (Schuko) and NF C 61-314 (French) Standards.

- Earth Socket (British Type):

- 13A - 250V~.
- With and without Pilot Lamp.
- In accordance with the BS 1363-2 Standard.

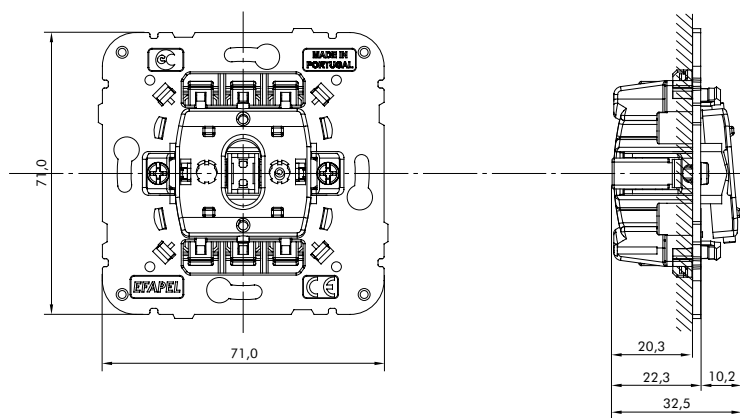
- Earth Socket (Euro-USA Type):

- 15A - 127V~/16A - 250V~.
- In accordance with ANSI; NEMA WD-6 (Figure 5-15) and IEC 60884-1 Standards.

- Earth Socket (USA NEMA Type):

- 15A - 127V~.
- In accordance with SASO 2204; NEMA WD-6 (Figure 5-15) Standard.

DIMENSIONS (mm)



KIT IP44

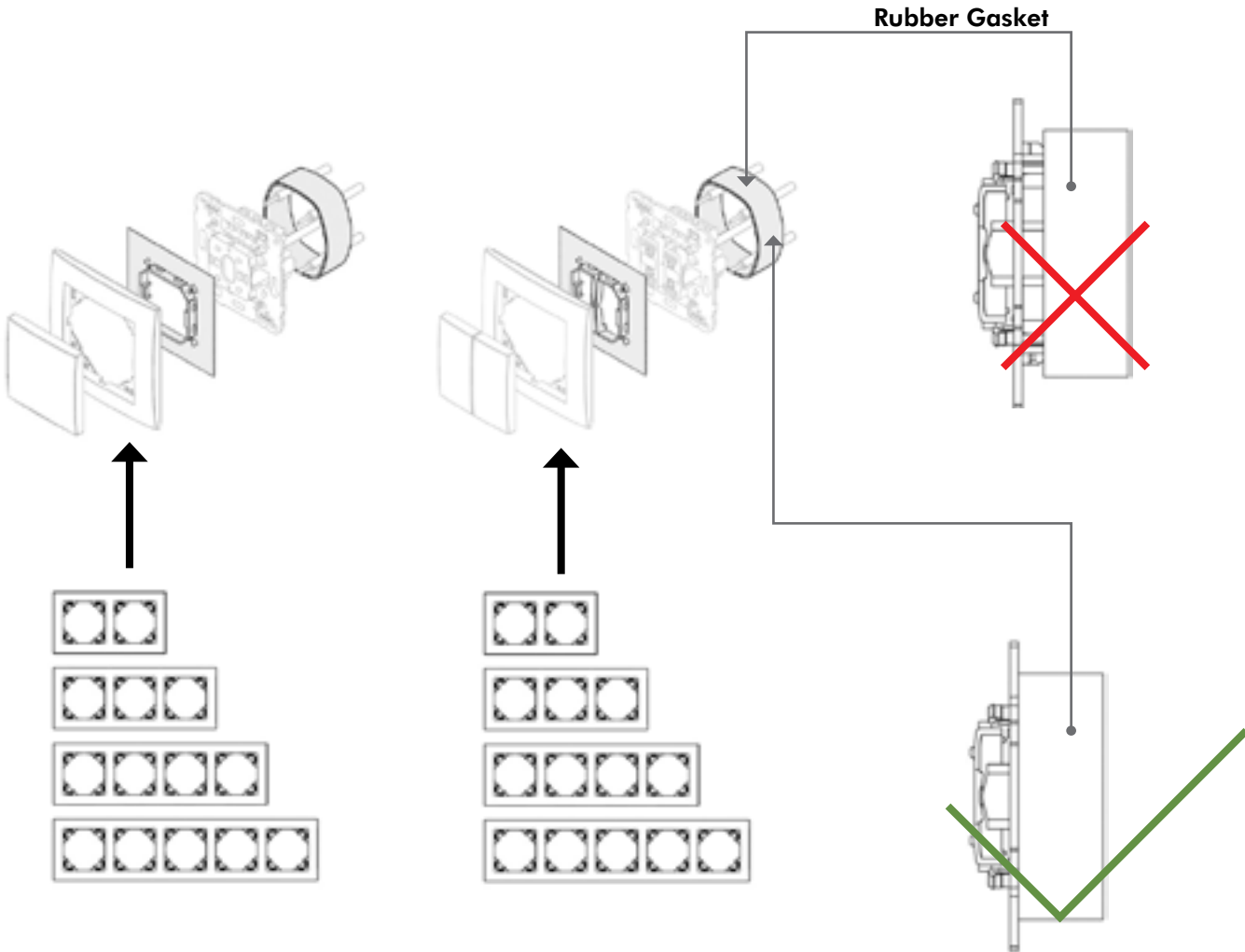
LOGUS⁹⁰

APOLO 5000

sirius70

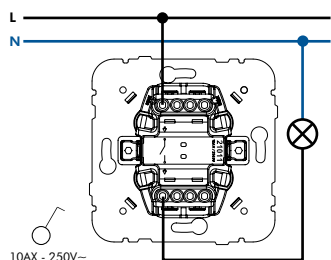
Single Rockers
(Ref. 21981)

Double Rockers
(Ref. 21982)

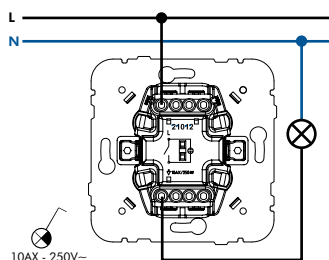


MEC 21 - WIRING DIAGRAMS

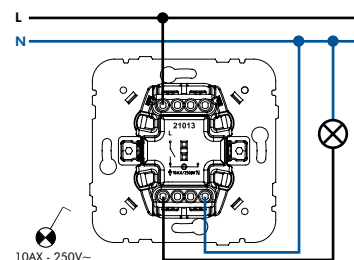
SINGLE POLE SWITCH



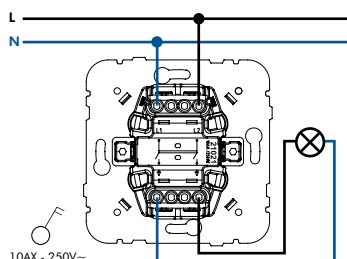
SINGLE POLE SWITCH WITH ORIENTING LIGHT



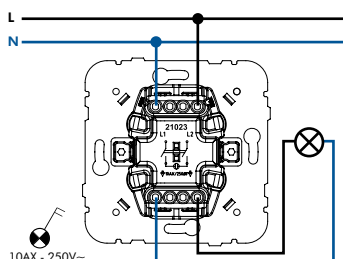
SINGLE POLE SWITCH WITH PILOT LAMP



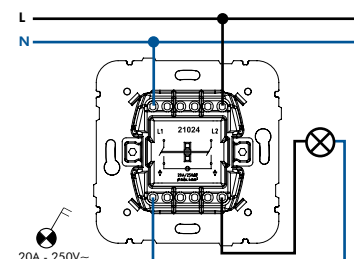
TWO-POLE SWITCH



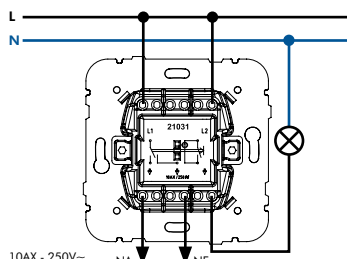
TWO-POLE SWITCH WITH PILOT LAMP



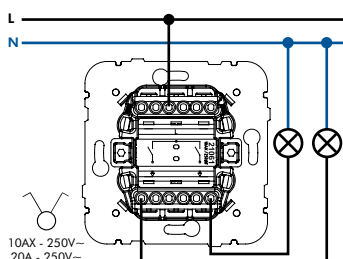
TWO-POLE SWITCH WITH PILOT LAMP - 20A



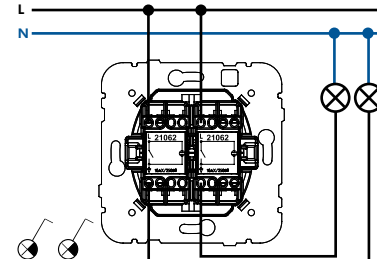
CARD-SYSTEM SWITCH



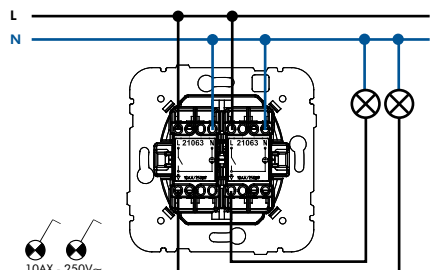
TWO CIRCUITS SWITCH



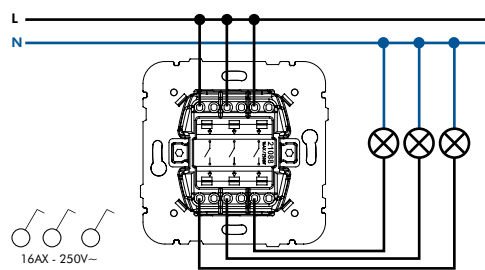
TWO CIRCUITS SWITCH WITH ORIENTING LIGHT



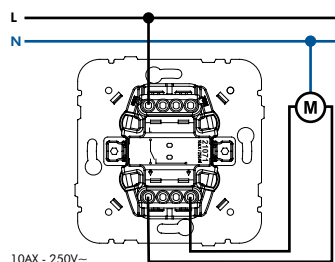
TWO CIRCUITS SWITCH WITH PILOT LAMP



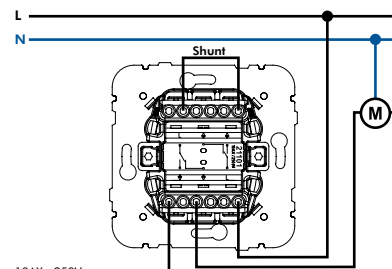
THREE CIRCUITS SWITCH



FAW TWO WAY SWITCH - 2 SPEEDS

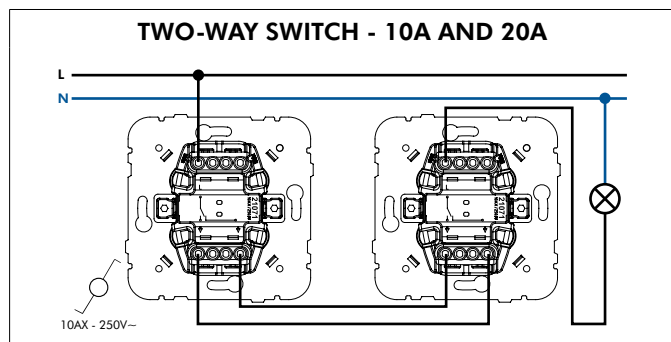


FAW TWO WAY SWITCH ON/OFF - 2 SPEEDS

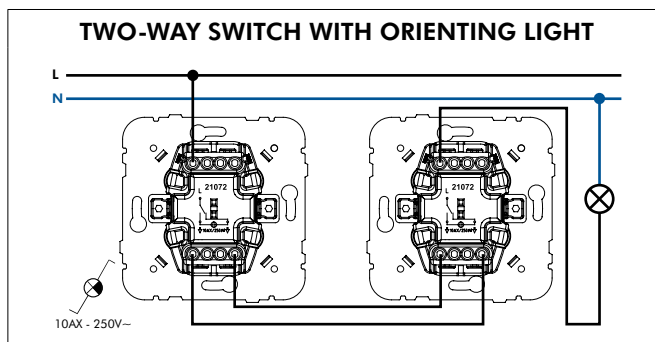


MEC 21 - WIRING DIAGRAMS

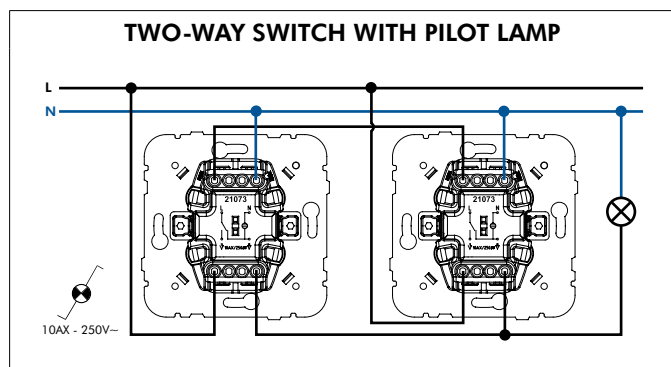
TWO-WAY SWITCH - 10A AND 20A



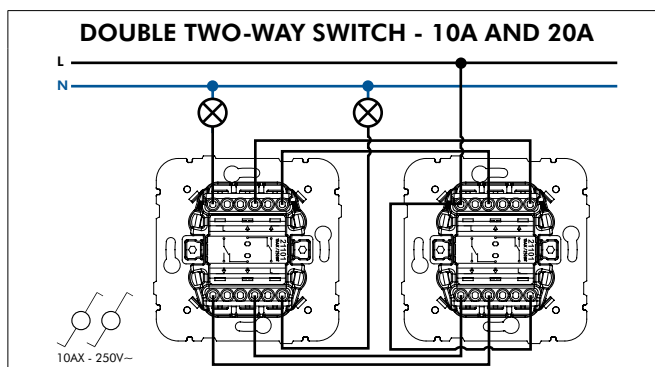
TWO-WAY SWITCH WITH ORIENTING LIGHT



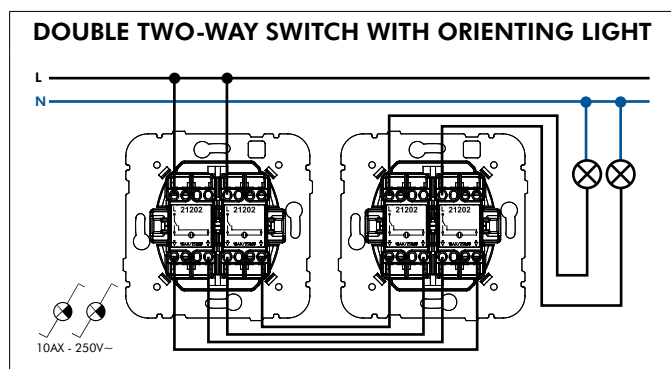
TWO-WAY SWITCH WITH PILOT LAMP



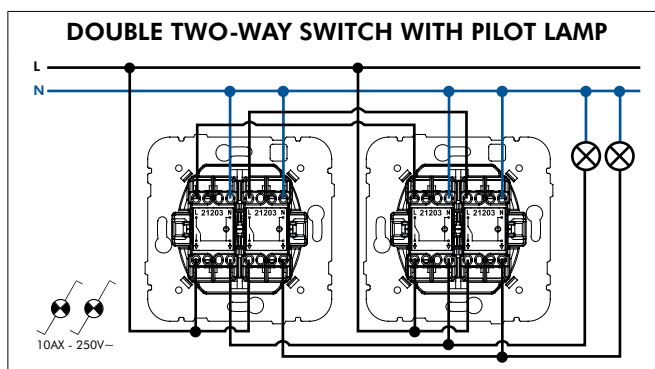
DOUBLE TWO-WAY SWITCH - 10A AND 20A



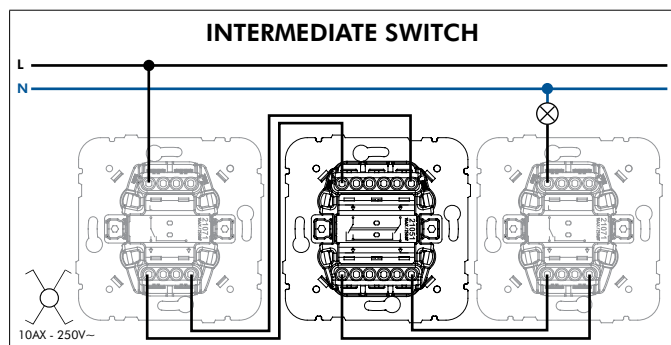
DOUBLE TWO-WAY SWITCH WITH ORIENTING LIGHT



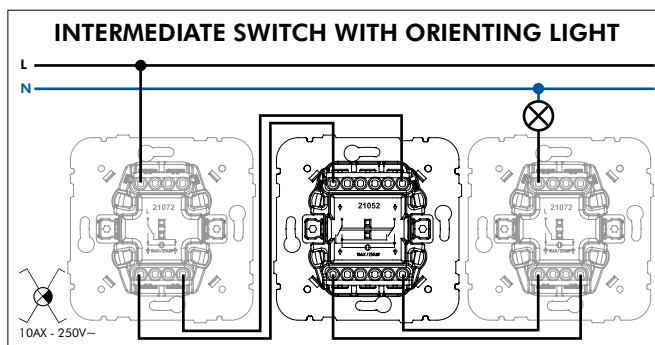
DOUBLE TWO-WAY SWITCH WITH PILOT LAMP



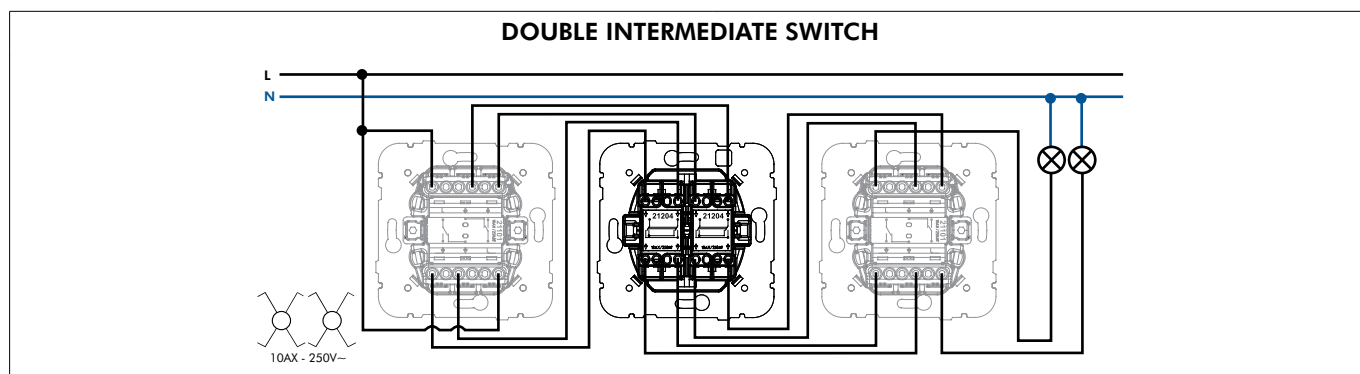
INTERMEDIATE SWITCH



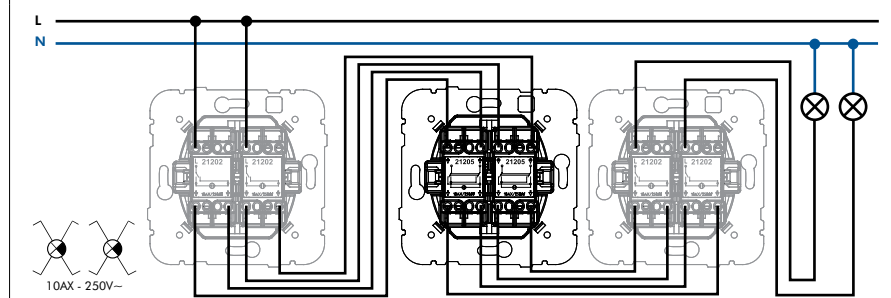
INTERMEDIATE SWITCH WITH ORIENTING LIGHT



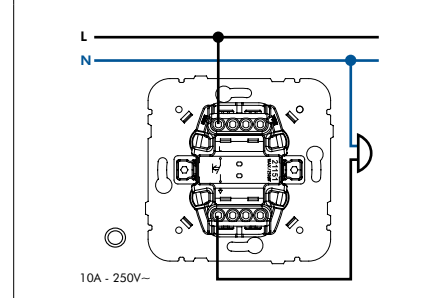
DOUBLE INTERMEDIATE SWITCH



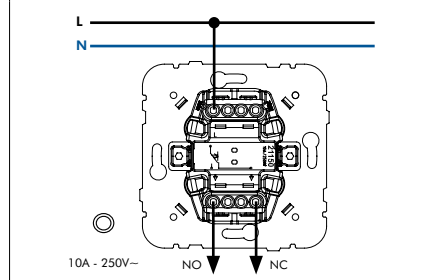
DOUBLE INTERMEDIATE SWITCH WITH ORIENTING LIGHT



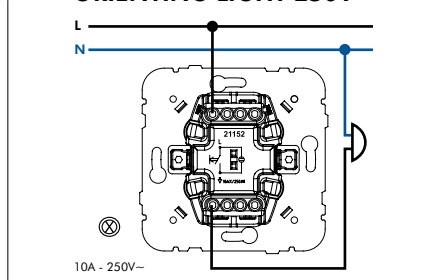
ROCKER PUSH-BUTTON



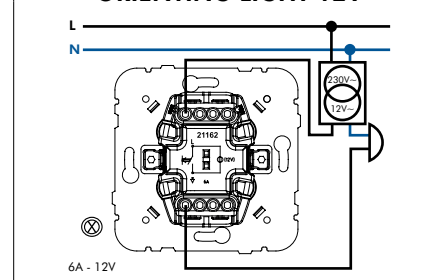
ROCKER PUSH-BUTTON (NO+NC)



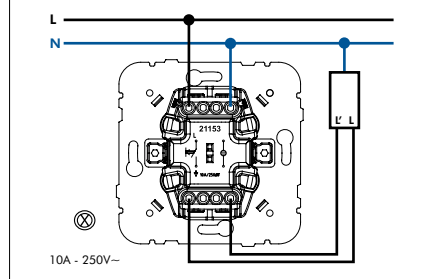
ROCKER PUSH-BUTTON WITH ORIENTING LIGHT 250V~



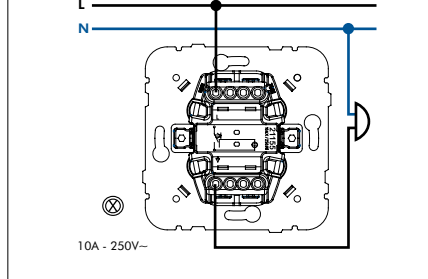
ROCKER PUSH-BUTTON WITH ORIENTING LIGHT 12V



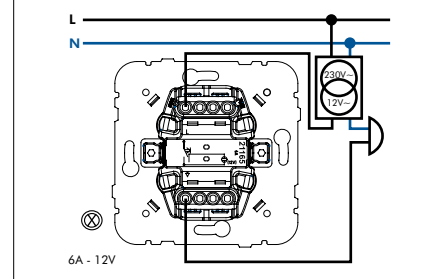
ROCKER PUSH-BUTTON WITH INDEPENDENT PILOT LAMP



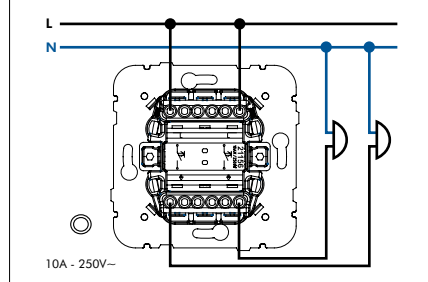
ROCKER PUSH-BUTTON WITH IDENTIFICATION 250V~



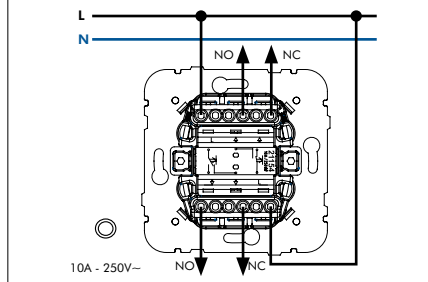
ROCKER PUSH-BUTTON WITH IDENTIFICATION 12V



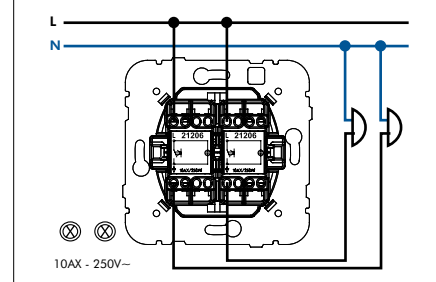
DOUBLE PUSH-BUTTON



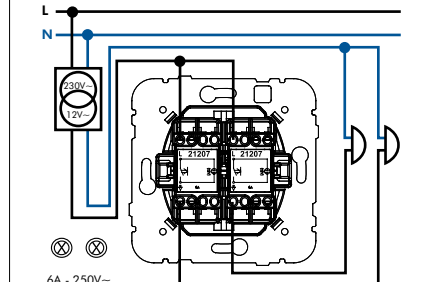
DOUBLE PUSH-BUTTON (2NO+2NC)



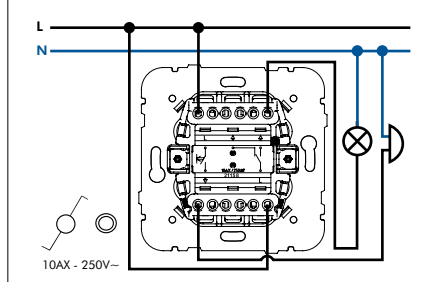
DOUBLE ROCKER PUSH-BUTTON WITH ORIENTING LIGHT 250V~



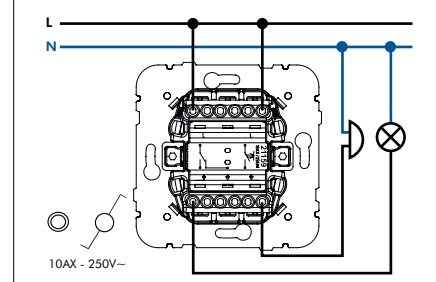
DOUBLE ROCKER PUSH-BUTTON WITH ORIENTING LIGHT 12V



TWO-WAY SWITCH/ROCKER PUSH-BUTTON

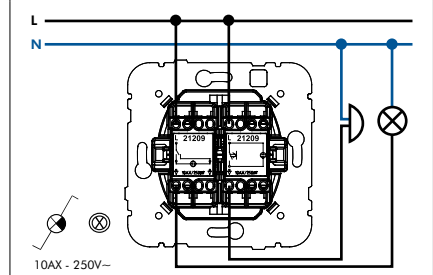


ROCKER PUSH-BUTTON/TWO-WAY SWITCH

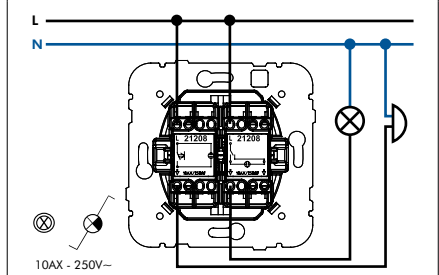


MEC 21 - WIRING DIAGRAMS

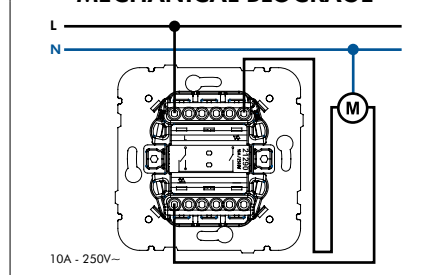
**TWO-WAY SWITCH WITH ORIENTING LIGHT/
ROCKER PUSH-BUTTON WITH ORIENTING LIGHT**



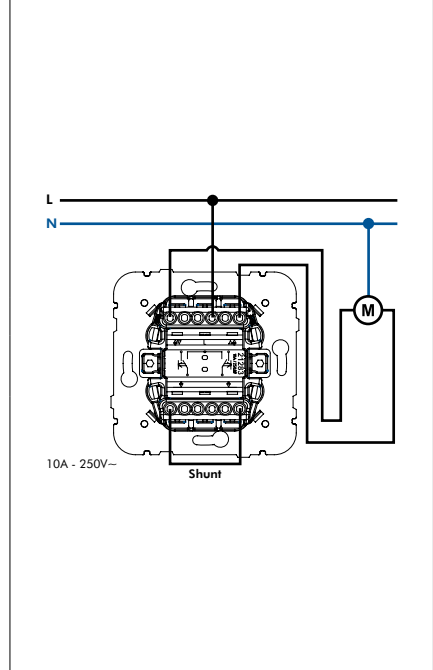
**ROCKER PUSH-BUTTON WITH ORIENTING LIGHT/
TWO-WAY SWITCH WITH ORIENTING LIGHT**



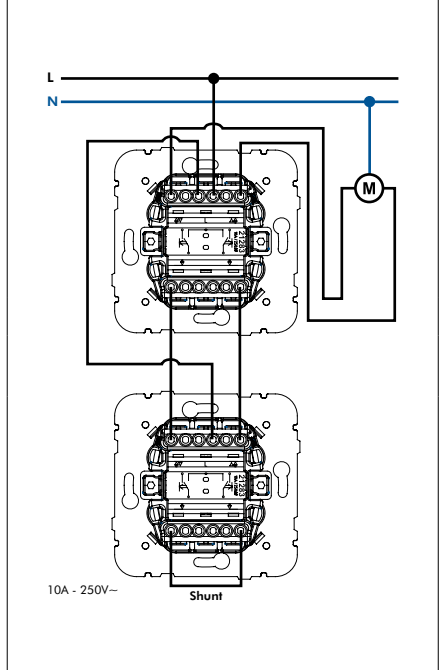
**VENETIAN SWITCH
VENETIAN SWITCH WITH
MECHANICAL BLOCKAGE**



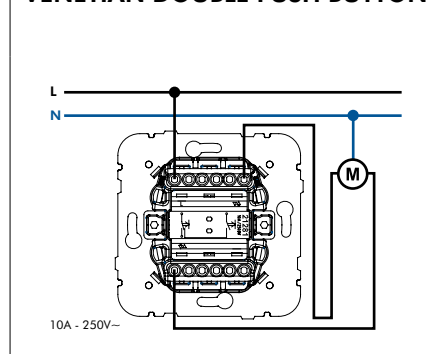
**VENETIAN DOUBLE PUSH BUTTON FOR
MULTIPLE POINTS BLINDS CONTROL**
(Control for 1 point)



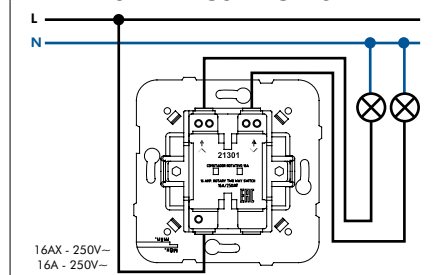
**VENETIAN DOUBLE PUSH BUTTON FOR
MULTIPLE POINTS BLINDS CONTROL**
(Control from 2 or several points)



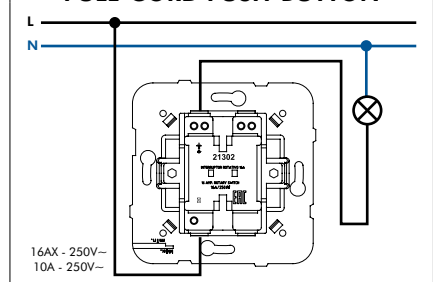
VENETIAN DOUBLE PUSH BUTTON



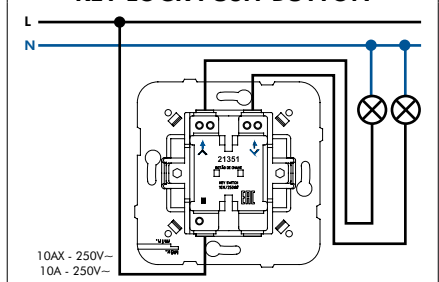
**ROTARY TWO-WAY SWITCH - 16A
ROTARY PUSH-BUTTON**



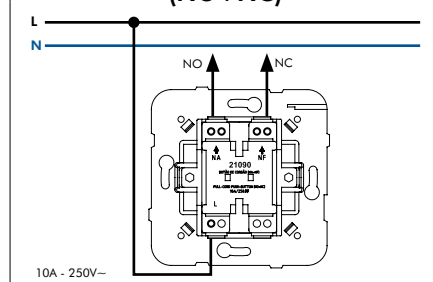
**ROTARY SWITCH - 16A
PULL-CORD PUSH-BUTTON**



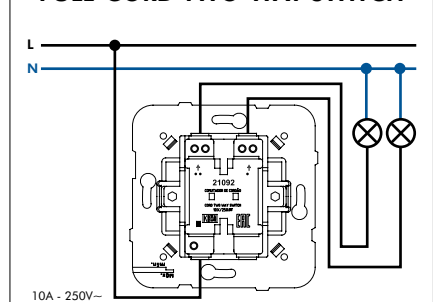
**KEY LOCK TWO-WAY SWITCH
KEY LOCK PUSH-BUTTON**



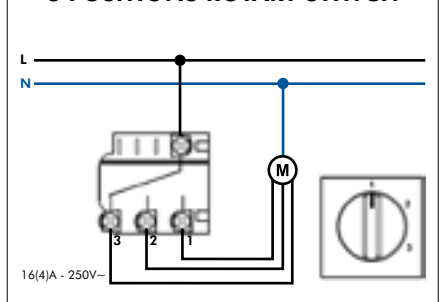
**PULL-CORD PUSH-BUTTON
(NO + NC)**



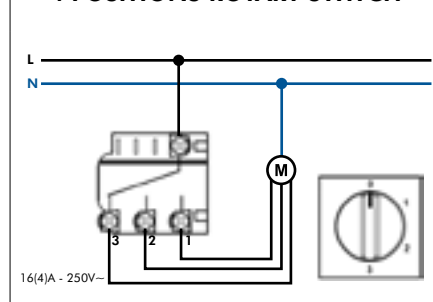
PULL-CORD TWO-WAY SWITCH



3 POSITIONS ROTARY SWITCH

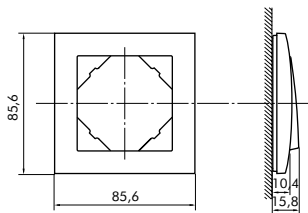


4 POSITIONS ROTARY SWITCH

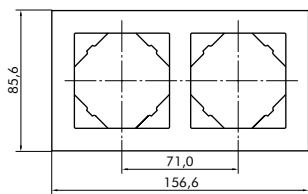


BASE | AQUARELLA

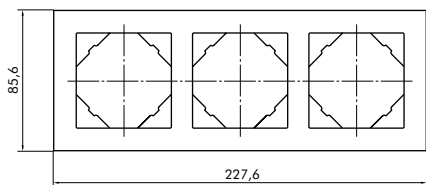
SINGLE



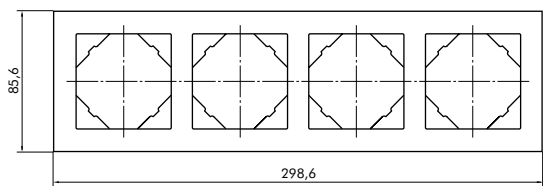
DOUBLE



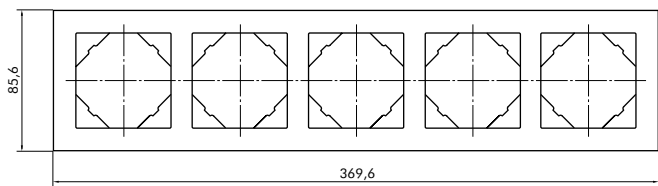
TRIPLE



FOUR-GANG

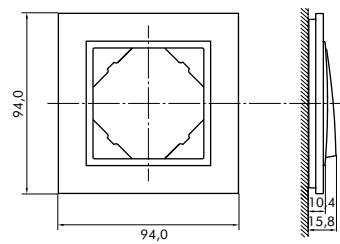


FIVE-GANG

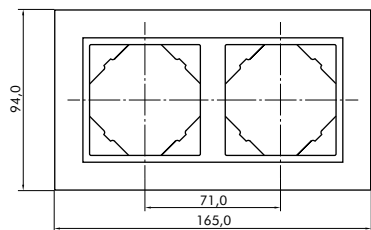


ANIMATO | CRYSTAL | METALLO | ARBORE | PETRA

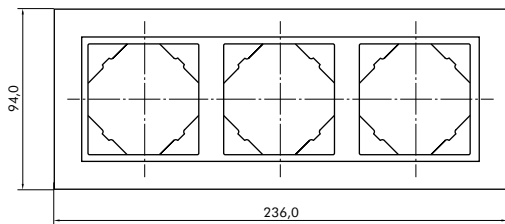
SINGLE



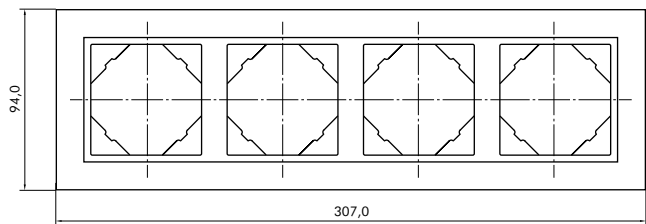
DOUBLE



TRIPLE

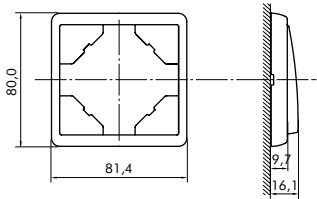


FOUR-GANG

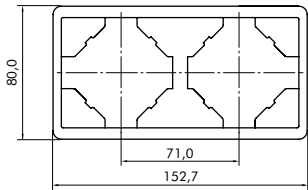


STANDARD | METALIZED

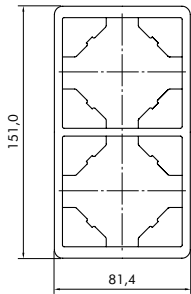
SINGLE



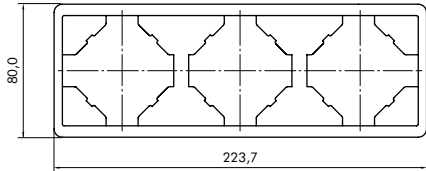
DOUBLE HORIZONTAL



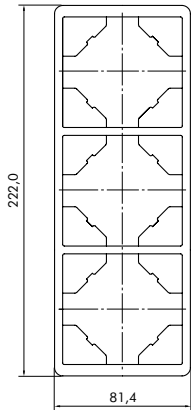
DOUBLE VERTICAL



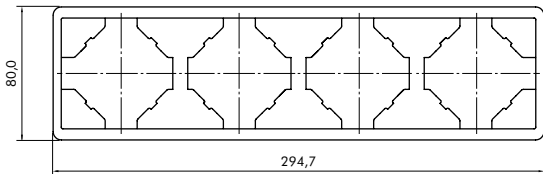
TRIPLE HORIZONTAL



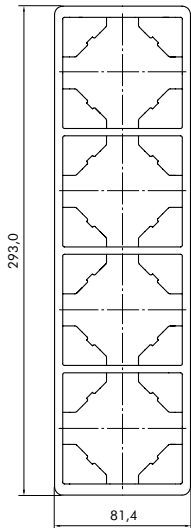
TRIPLE VERTICAL



FOUR-GANG HORIZONTAL

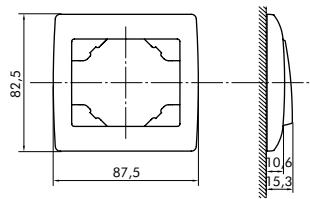


FOUR-GANG VERTICAL

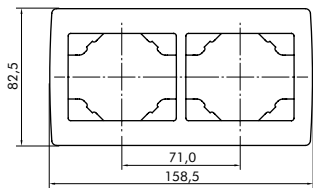


CLASSIC | AMBIENT | METAL | WOOD

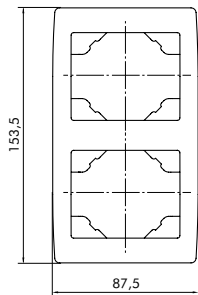
SINGLE



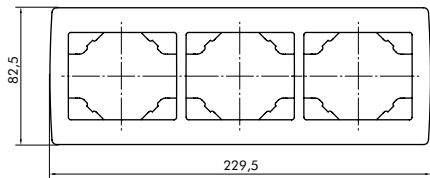
DOUBLE HORIZONTAL



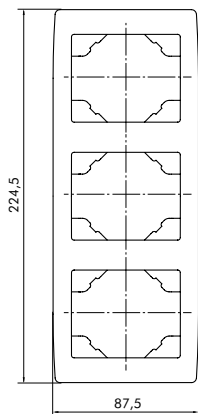
DOUBLE VERTICAL



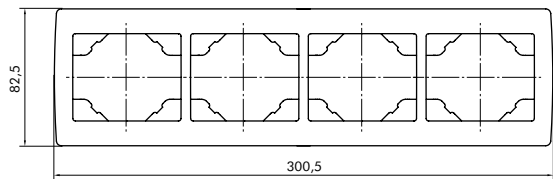
TRIPLE HORIZONTAL



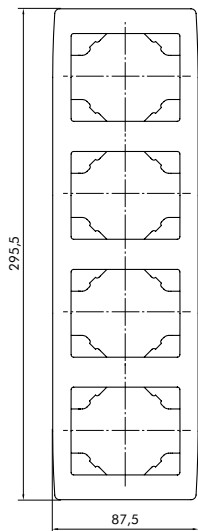
TRIPLE VERTICAL



FOUR-GANG HORIZONTAL

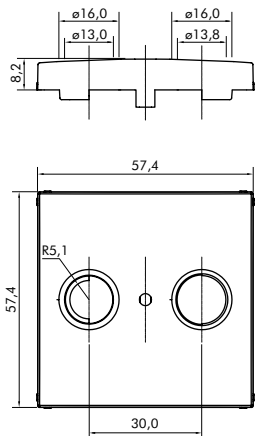


FOUR-GANG VERTICAL

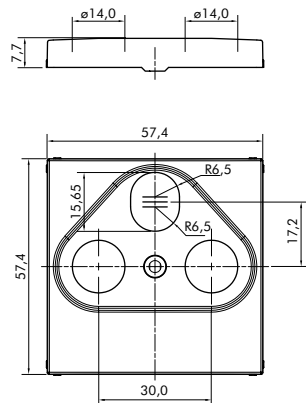


COVER PLATES FOR R - TV - SAT SOCKETS MULTIBRAND - DIMENSIONS (mm)

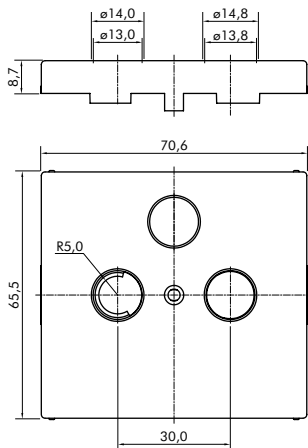
REF. 90685 T | 90686 T



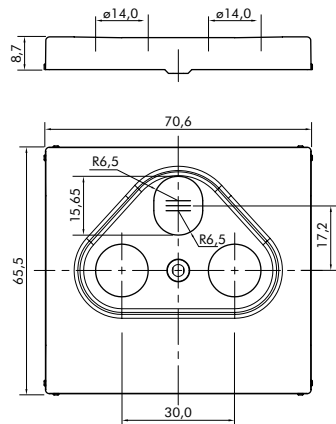
REF. 90680 T



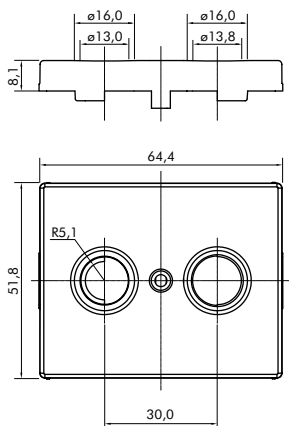
REF. 50685 T | 50686 T



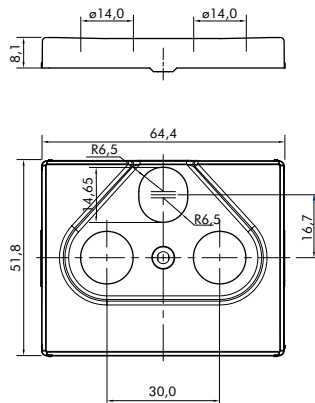
REF. 50680 T



REF. 70685 T | 70686 T



REF. 70680 T



QUADRO 45 - SEMI-ASSEMBLED DEVICES

DESCRIPTION

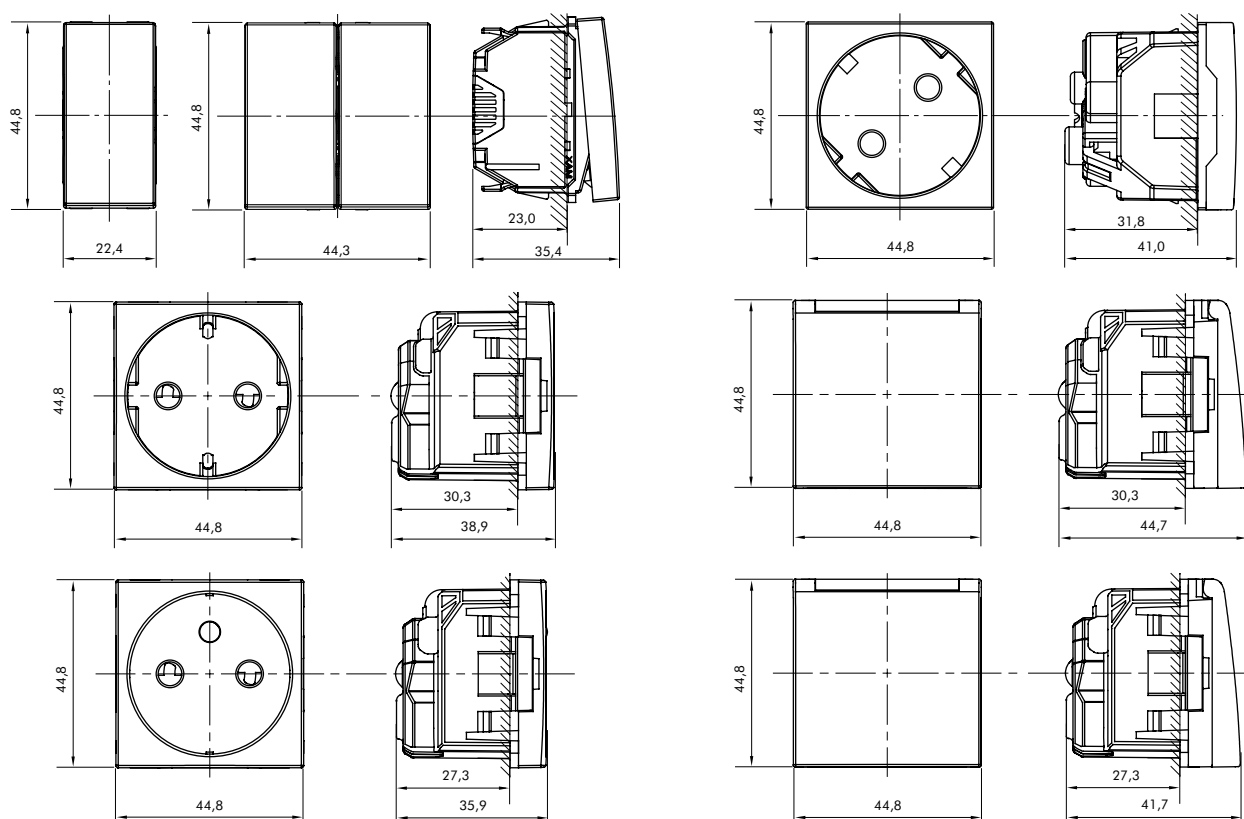


- Semi-assembled devices **QUADRO 45** Series - 1 and 2 modules.
- Possibility of installation:
 - Flush-mounting (Installation in flush-mounting box) with finishing **QUADRO 45** or **QUADRO 45 - Siza Vieira**.
 - Surface Mounting (Installation with Q45 Modular Surface Mounting Box);
 - Cable-trunkings:
 - Mini Cable-trunkings (Recourse of the Surface Mounting Box with with adptation to the Cable-trunking);
 - Distribution Cable-trunkings (Recourse of the Q45 Modular Adapter)
- Available in colors **BR** - White (RAL 9003), **BM** - White Matte, **AL** - Aluminium, **PM** - Black Matte.
- Energy Sockets: Pre-cabled single, double and triple, Available in 4 colors (White, Red, Orange and Green).

CHARACTERISTICS

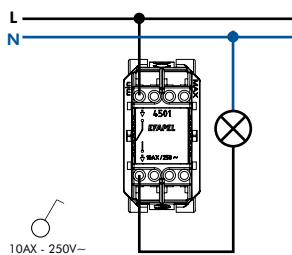
- Mechanisms in technical thermoplastic - resistant material, non-conductive.
- Control Devices
 - 10A - 250V~ - connections with screwless terminals. It allows the usage of rigid and flexible cable.
 - In accordance with EN 60669-1 Standard.
- Energy Sockets
 - Earth Socket (Schuko and French types):
 - 16A - 250V~.
 - Connections with screw terminals.
 - In accordance with IEC 60884-1; DIN VDE 0620-1 (Schuko) and NF C 61-314 (French) Standards.
 - Earth Socket (Euro-USA Type):
 - 15A - 127V~/16A - 250V~.
 - In accordance with ANSI; NEMA WD-6 (Figure 5-15) and IEC 60884-1 Standards.
 - Earth Socket (USA NEMA Type):
 - 15A - 127V~.
 - In accordance with SASO 2204; NEMA WD-6 (Figure 5-15) Standard.

DIMENSIONS (mm)

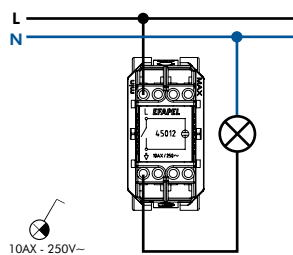


QUADRO 45 - WIRING DIAGRAMS

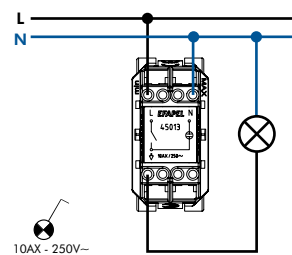
SINGLE POLE SWITCH



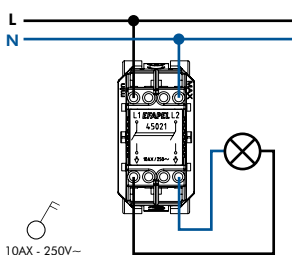
SINGLE POLE SWITCH WITH ORIENTING LIGHT



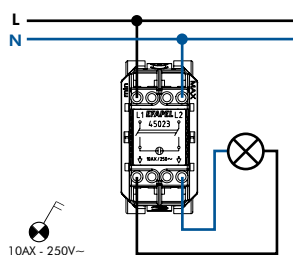
SINGLE POLE SWITCH WITH PILOT LAMP



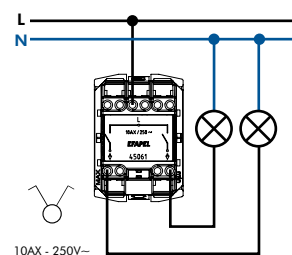
TWO-POLE SWITCH



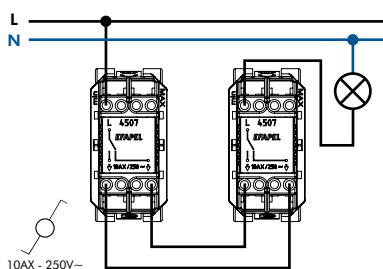
TWO-POLE SWITCH WITH PILOT LAMP



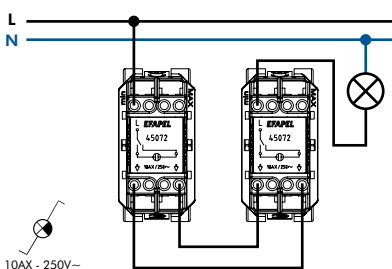
TWO CIRCUITS SWITCH



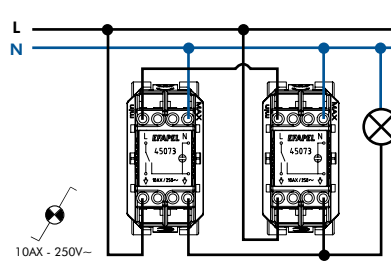
TWO-WAY SWITCH



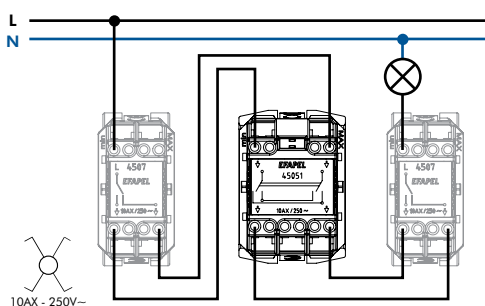
TWO-WAY SWITCH WITH ORIENTING LIGHT



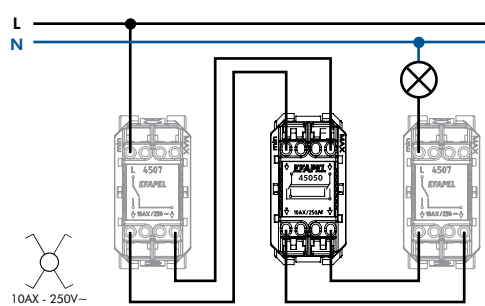
TWO-WAY SWITCH WITH PILOT LAMP



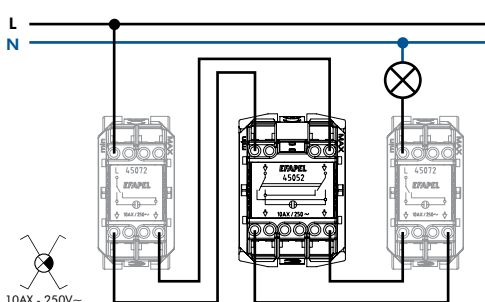
INTERMEDIATE SWITCH - 2 MODULES



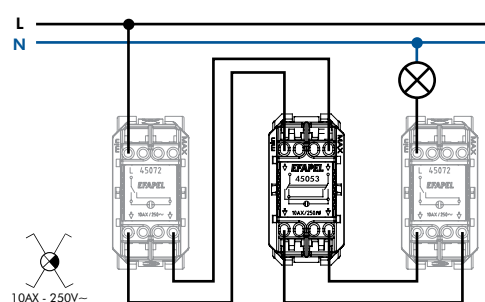
INTERMEDIATE SWITCH - 1 MODULE



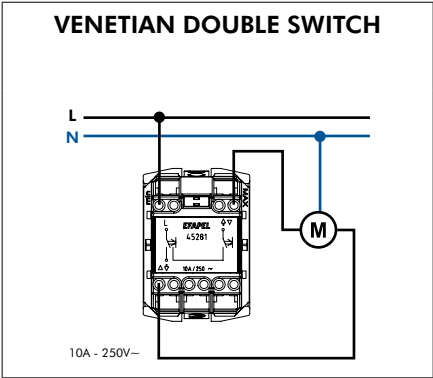
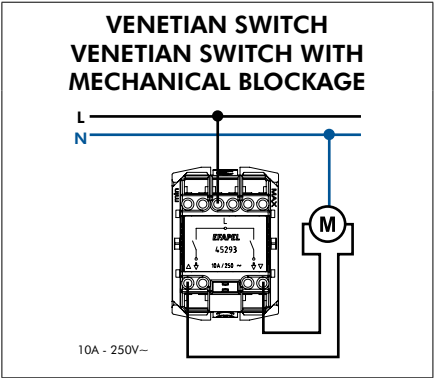
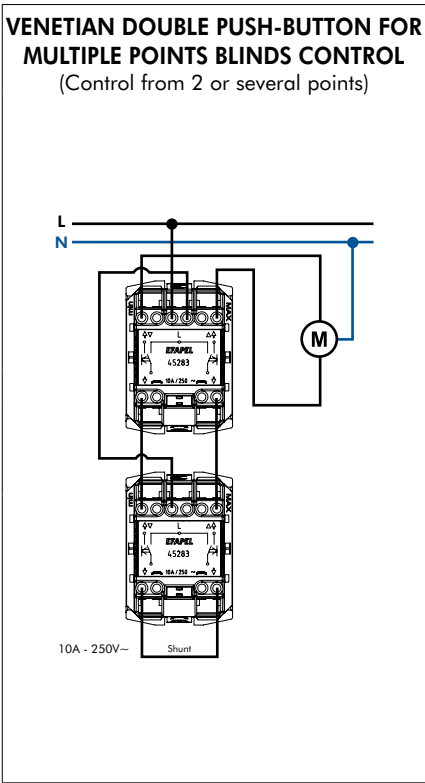
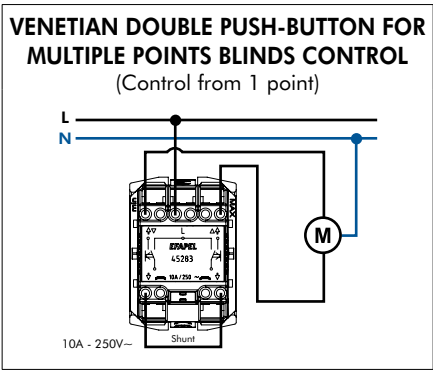
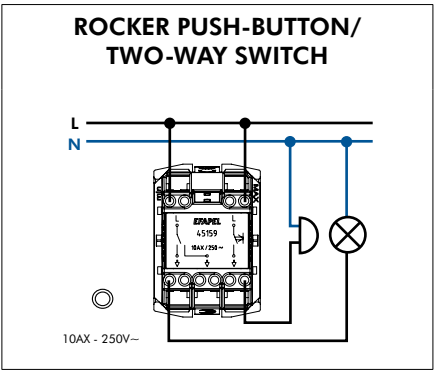
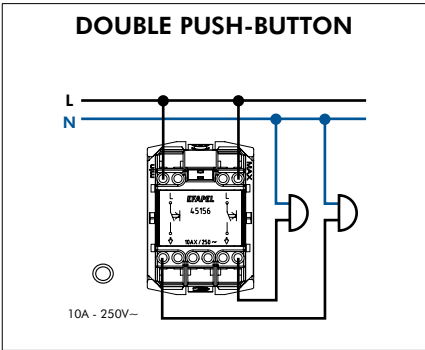
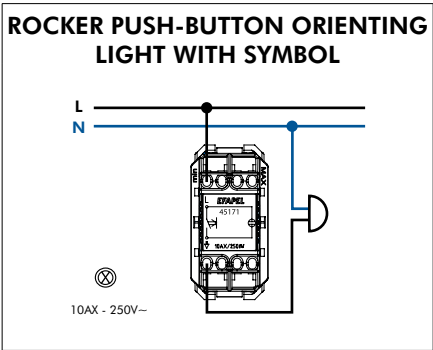
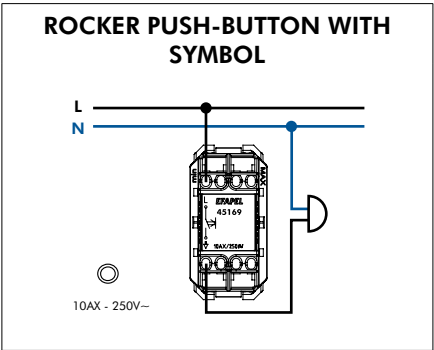
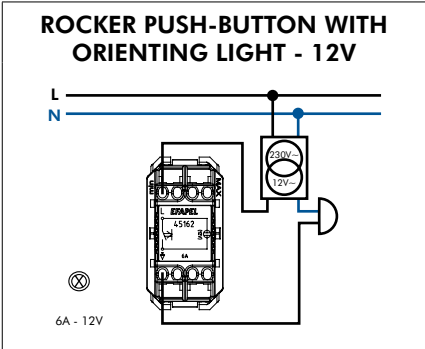
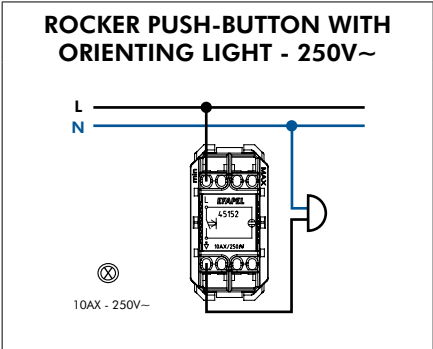
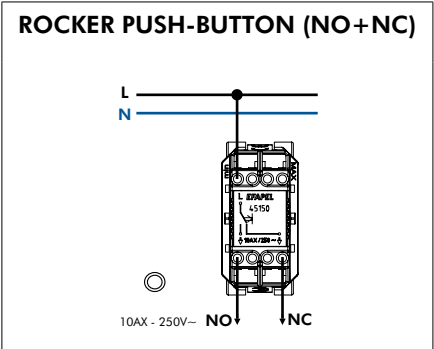
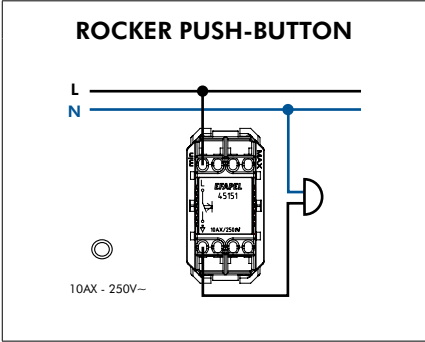
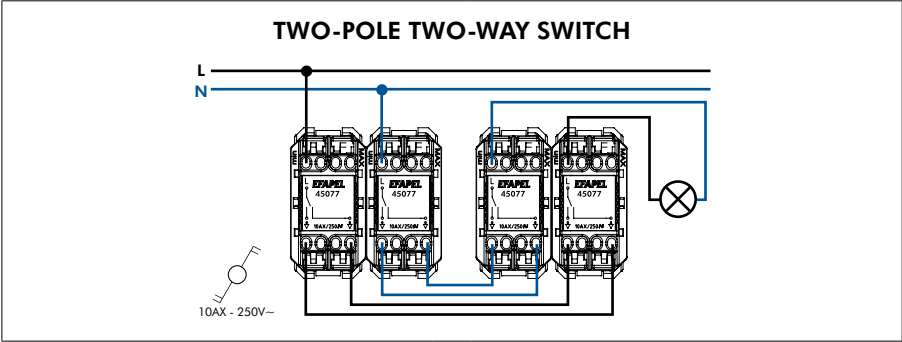
INTERMEDIATE SWITCH WITH ORIENTING LIGHT - 2 MODULES



INTERMEDIATE SWITCH WITH PILOT LAMP - 1 MODULE



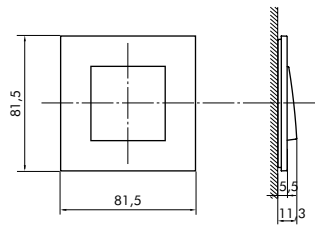
QUADRO 45 - WIRING DIAGRAMS



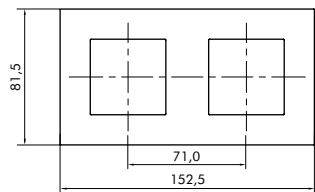
QUADRO 45 - FRAMES - DIMENSIONS (mm)

QUADRO 45

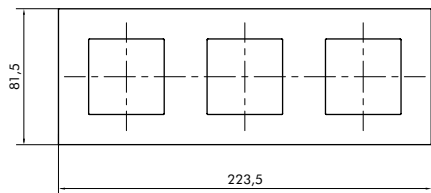
SINGLE



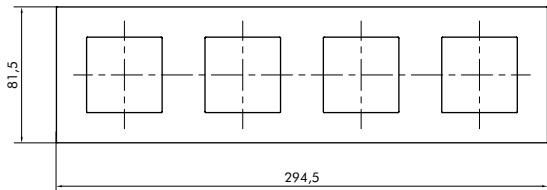
DOUBLE



TRIPLE

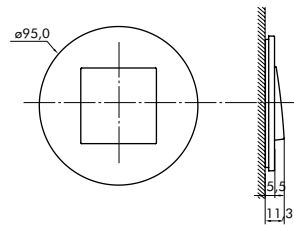


FOUR-GANG

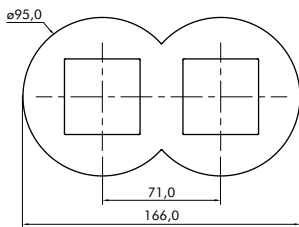


QUADRO 45
Siza Vieira

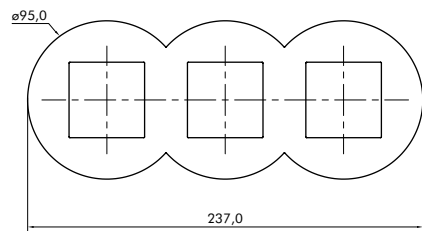
SV SINGLE



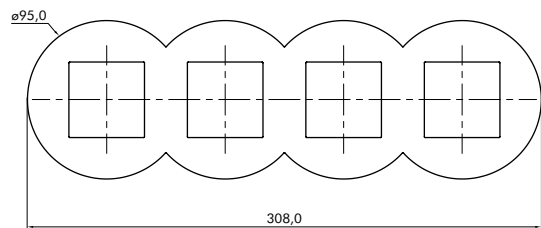
SV DOUBLE



SV TRIPLE



SV FOUR-GANG



DESCRIPTION



- MEC 21 Mechanisms:
 - Finishings - LOGUS⁹⁰ | APOLLO 5000 | **sirius70**.
- Semi-assembled devices - **QUADRO 45**:
 - Finishings - **QUADRO 45** | **QUADRO 45** - Siza Vieira.
- 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 (holidays).

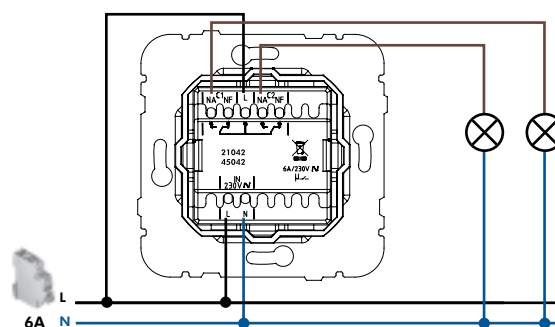
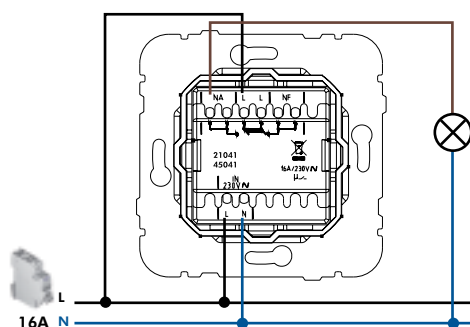
OPERATION

- Allows to change the ON/OFF state of each circuit by manual operation.
- Allows independent programming of the ON, OFF and PULSE functions (1-59 seconds) for each circuit.

CHARACTERISTICS

- 1 Circuit: 16A - 230V~ - 50/60Hz.
- 2 Circuits: 6A + 6A - 230V~ - 50/60Hz.
- Power consumption: < 1W.
- Memory capacity: 24.
- Output type: ON, OFF and Pulse (1 to 59 seconds).
- Programming accuracy: 1 second.
- Operating accuracy: ≤ 1 sec/day.
- Operating temperature: -10°C to +45°C.
- Battery back up: 24 hours.
- Outputs: NO + NC.
- Inverter contact (NO+NC), voltage free.

WIRING DIAGRAMS



DESCRIPTION



- MEC 21 Mechanisms:
 - Finishings - LOGUS⁹⁰ | APOLO 5000 | **sirius70**.
- Semi-assembled devices - **QUADRO 45**:
 - Finishings - **QUADRO 45** | **QUADRO 45** - Siza Vieira.
- Compatible with input modules of different home automation systems.
- Single entry - four independent outputs.
- Contact opening and closing through microswitch (voltage free and of **Very Low Tension**).

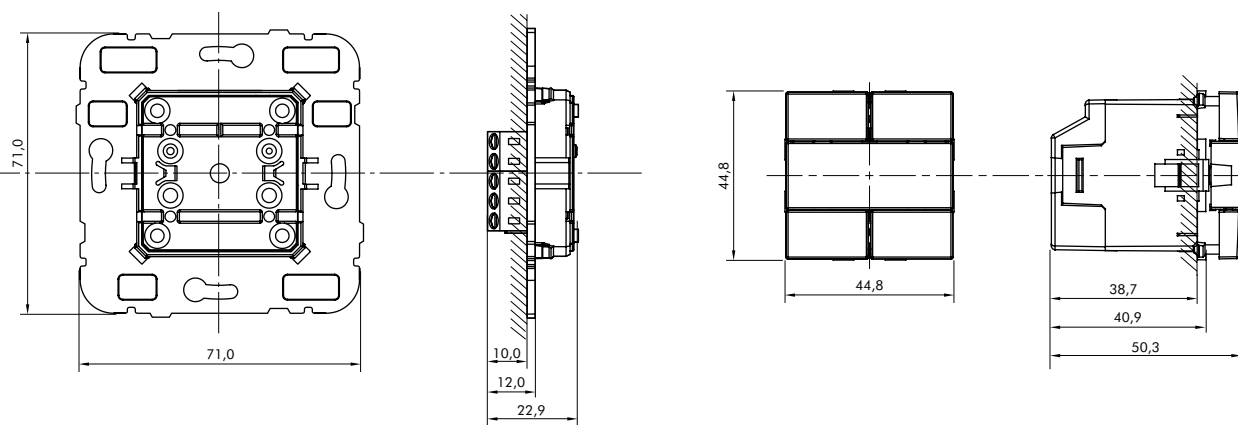
OPERATION

- Press each of the rockers to close the circuit.

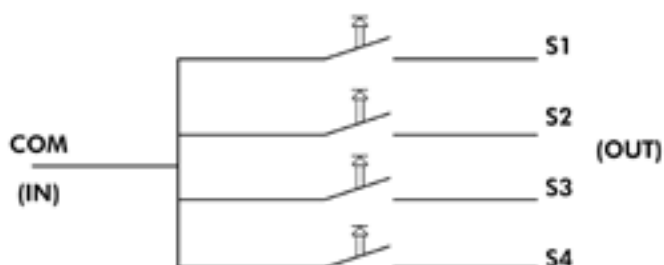
CHARACTERISTICS

- Maximum power dissipation: 60mW (DC 12V 50mA).
- Maximum voltage: 32V.
- Insulation resistance: $\geq 100\text{M}\Omega$.
- Dielectric strength: AC 250V~ 50Hz/1min.
- Operating temperature: -25°C to +70°C.
- Maximum relative humidity: (40°C) $\leq 95\%$.
- Contact resistance: $\leq 40\text{m}\Omega$.
- Outputs: 4NO.

DIMENSIONS (mm)



CIRCUIT DIAGRAM



DESCRIPTION



PROGRAMMABLE CHRONOTHERMOSTAT

- MEC 21 Mechanisms:
 - Finishings - LOGUS⁹⁰ | APOLO 5000 | **sirius70**.
- Semi-assembled devices - **QUADRO 45**:
 - Finishings - **QUADRO 45** | **QUADRO 45** - *Siza Vieira*.
- It allows to control manually or automatically the heating/cooling system in accordance with a daily/weekly programming and with preprogrammed temperatures.
- Possibility of connecting the Floor Temperature Sensor (Ref. 81950), with automatic self detection.
- Automatic winter/summer time change.
- Possibility of programming a period of inactivity (holidays).
- Battery back up: 24 hours.



THERMOSTAT WITH INFRARED REMOTE CONTROL

- MEC 21 Mechanisms:
 - Finishings - LOGUS⁹⁰ | APOLO 5000 | **sirius70**.
- Semi-assembled devices - **QUADRO 45**:
 - Finishings - **QUADRO 45** | **QUADRO 45** - *Siza Vieira*.
- It allows to control the heating/cooling system according desired temperature.
- Possibility to be controlled by the Infrared Remote Control Transmitter Multifunctions (Ref. 81900).
- Possibility of connecting the Floor Temperature Sensor (Ref. 81950), with automatic self detection.
- TIMER from 15 to 90 minutes (at intervals of 15 minutes).

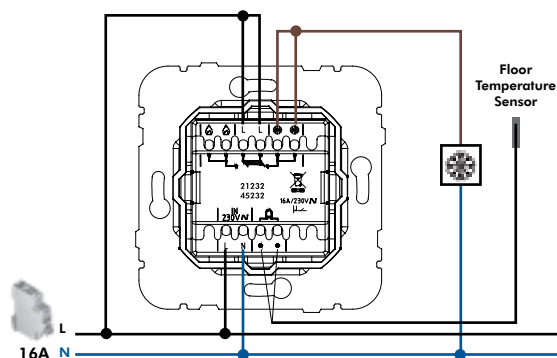
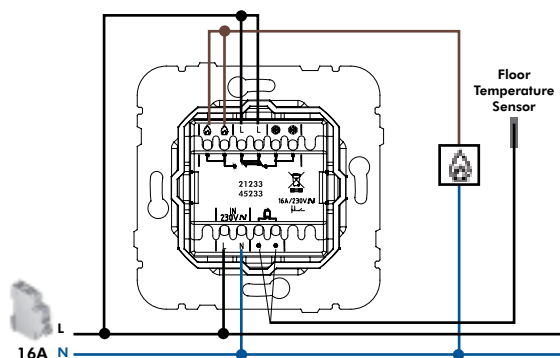
OPERATION

- Allows to select a constant desired room temperature (with the Thermostat with Infrared Remote Control).
- Allows to select a desired room temperature for different times of the day and for different days of the week (with the Programmable Chronothermostat).

CHARACTERISTICS

- 230V~ - 50Hz - 16A.
- Consumption: < 1W.
- Operating temperature: -10°C to +45°C.
- Range of temperature readings: -9°C to 35°C.
- Optimized for electric floor heating.
- Programmable temperatures: maximum, minimum, "antifreeze" and floor temperature sensor.
- Inverter contact (NO+NC), voltage free.

WIRING DIAGRAMS (HEATING / COOLING)



DESCRIPTION



- MEC 21 Mechanisms:
 - Finishings - LOGUS⁹⁰ | APOLO 5000 | **sirius70**.
- Semi-assembled devices - **QUADRO 45**:
 - Finishings - **QUADRO 45** | **QUADRO 45** - Siza Vieira.
- Controls the connection of electrical circuits according to the detection of motion and surrounding luminosity.
- Compatible with any electrical load.
- Wall mounting.

OPERATION

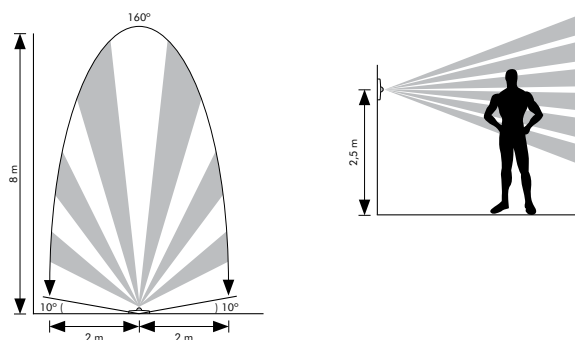
- Remove the cover of the mechanism to reach the adjustment potentiometers.
- Proceed to make the necessary adjustments.

Operating Time Regulation



Sensibility Regulation

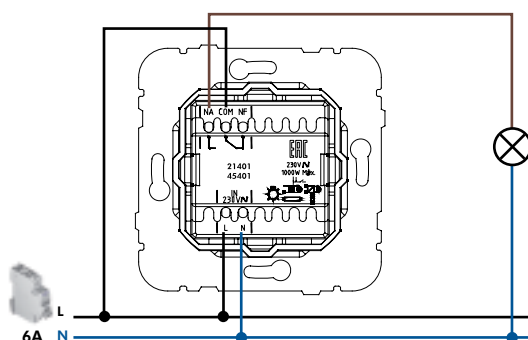
Range of Detection and Detection Angle



CHARACTERISTICS

- 230V~ - 50Hz.
- Ref. 21401: 1000W.
- Ref. 21402: 400W.
- It needs a neutral conductor.
- Consumption: < 1W.
- Sensitivity regulation.
- Operating time regulation: 5 sec. to 5 min.
- Range of detection: 8 meters.
- Maximum height: 2,5 meters.
- Detection angle: 160°.
- Outputs: NO+NC.
- Inverter contact (NO+NC), voltage free

WIRING DIAGRAM



DESCRIPTION



GENERAL BLINDS CONTROL MODULE WITH INFRARED REMOTE CONTROL

- MEC 21 Mechanisms:
 - Finishings - LOGUS⁹⁰ | APOLO 5000 | **sirius70**.
- Semi-assembled devices - **QUADRO 45**:
 - Finishings - **QUADRO 45** | **QUADRO 45** - *Siza Vieira*.
- 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 Multifunctions (Ref. 81900).
- Battery back up: 24 hours.
- Allows to receive sensor signals: 230V~ (PR1 and PR2).
- 2 programming functions (up or down)
- Function "Stand-By".



LOCAL BLINDS CONTROL MODULE WITH INFRARED REMOTE CONTROL

- MEC 21 Mechanisms:
 - Finishings - LOGUS⁹⁰ | APOLO 5000 | **sirius70**.
- Semi-assembled devices - **QUADRO 45**:
 - Finishings - **QUADRO 45** | **QUADRO 45** - *Siza Vieira*.
- Individual control of blinds.
- Local control of blinds.
- Possibility to be controlled by the Infrared Remote Control Transmitter Multifunctions (Ref. 81900).

OPERATION

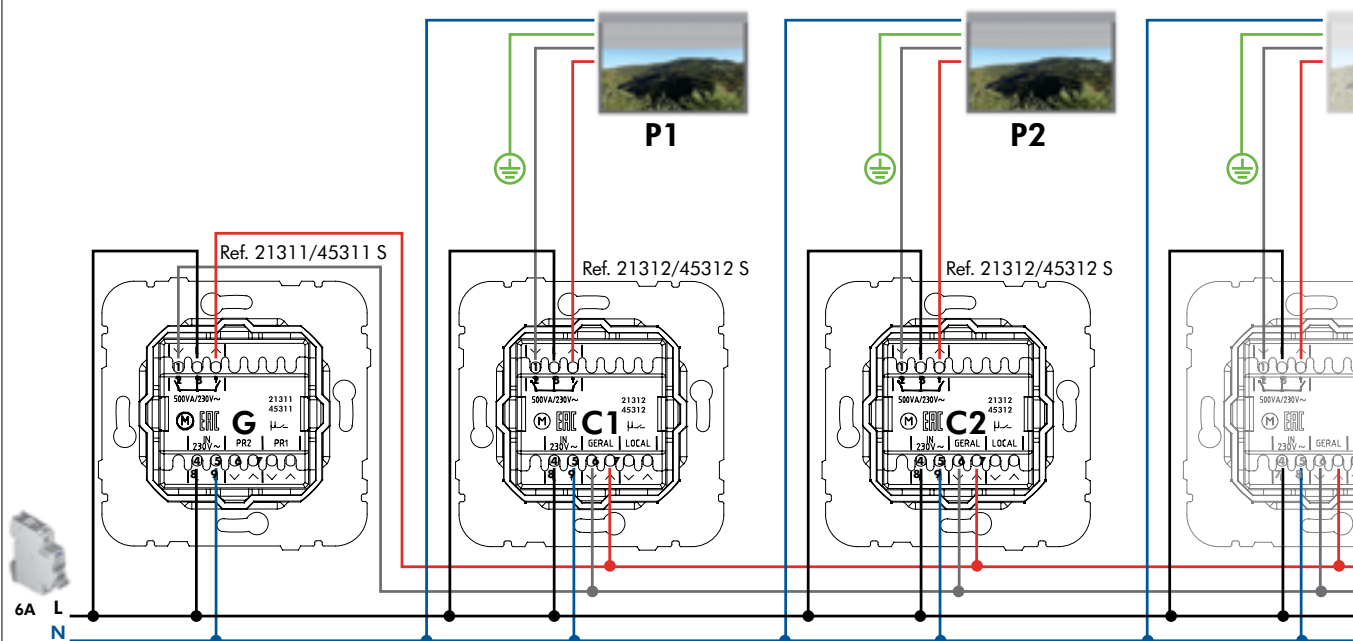
- Press the buttons to open/close the blinds.
- Allows to programme two operations for each 24 hours (only in the General Blinds Control Module).

CHARACTERISTICS

- 230V~±10% - 50Hz - 500VA.
- Consumption: < 1W.
- Outputs: NO.
- Inverter contact (NO+NC), voltage free.

WIRING DIAGRAM

■ BLINDS CENTRALIZED INSTALLATION - WITH BLINDS CONTROL MODULES



GENERAL BLINDS CONTROL (G)

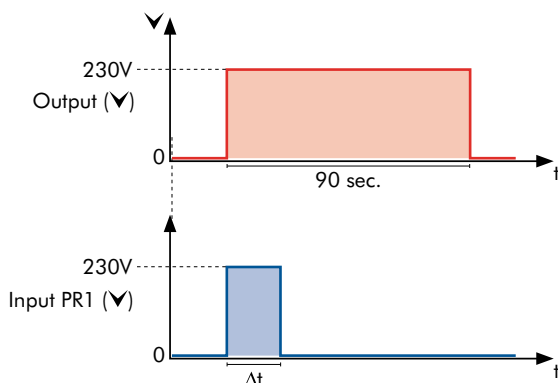
1. General Output - Down
2. Blinds Power Supply (line)
3. General Output - Up
4. Power Supply (line)
5. Power Supply (neutral)
6. Signal input priority 2 (230V~) - Down
7. Signal input priority 2 (230V~) - Up
8. Signal input priority 1 (230V~) - Down
9. Signal input priority 1 (230V~) - Up

LOCAL BLINDS CONTROL (C1), (C2), ...

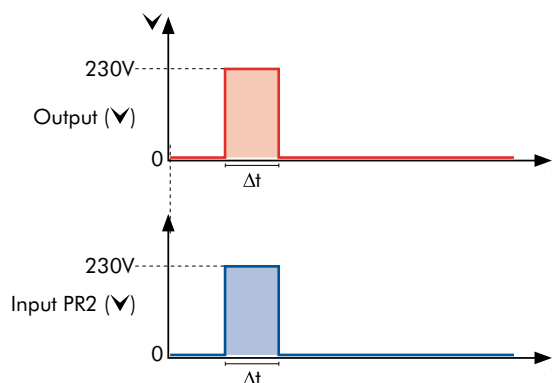
1. Output for Motor - Down
2. Blinds Power Supply (line)
3. Output for Motor - Up
4. Power Supply (line)
5. Power Supply (neutral)
6. Signal input from General Blinds Control - Down
7. Signal input from General Blinds Control - Up
8. Signal input from the Local Blinds Control - Down
9. Signal input from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

OPERATION INPUTS (EXAMPLE DOWN ▼)

INPUT PR1



INPUT PR2



DESCRIPTION



AUTOMATIC RELAY FOR BLINDS CONTROL

- 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.
- **Temporized.**



RELAY FOR BLINDS CONTROL

- **Only compatible with Venetian Double Push-button for Multiple Points Blinds Control (Ref. 21283 / 45283 S).**
- 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.
- **Not temporized.**

OPERATION

- Press the associated buttons to open/close the blinds.

CHARACTERISTICS

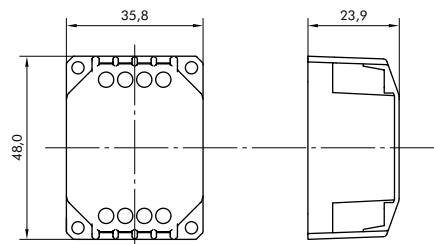
REF. 81512

- 230V~ - 50Hz - 6A (1380W, $\cos\phi=1$).
- Consumption: < 1W.
- Opening and closing time: 90 seconds.
- Protection against two simultaneous orders - Electrical blockage is guaranteed by Relay (Ref. 81512).

REF. 81511

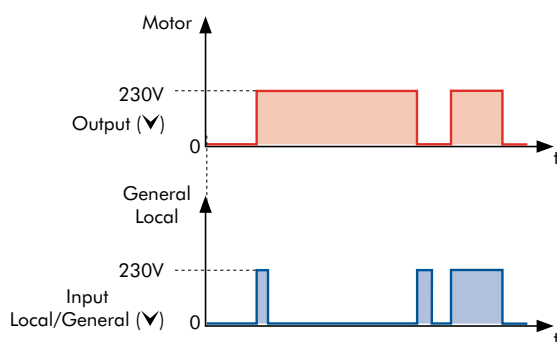
- 230V~ - 50Hz - 6A (1380W, $\cos\phi=1$).
- Consumption: < 1W.
- Protection against two simultaneous orders - Electrical blockage is guaranteed by the association of the Relay (Ref. 81511) with the Venetian Double Push-button for Multiple Points Blinds Control (Ref. 21283 / 45283 S).

DIMENSIONS (mm)

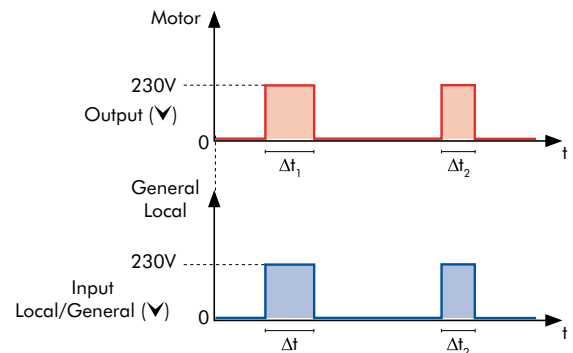


OPERATION INPUTS (EXAMPLE DOWN ▽)

REF. 81512

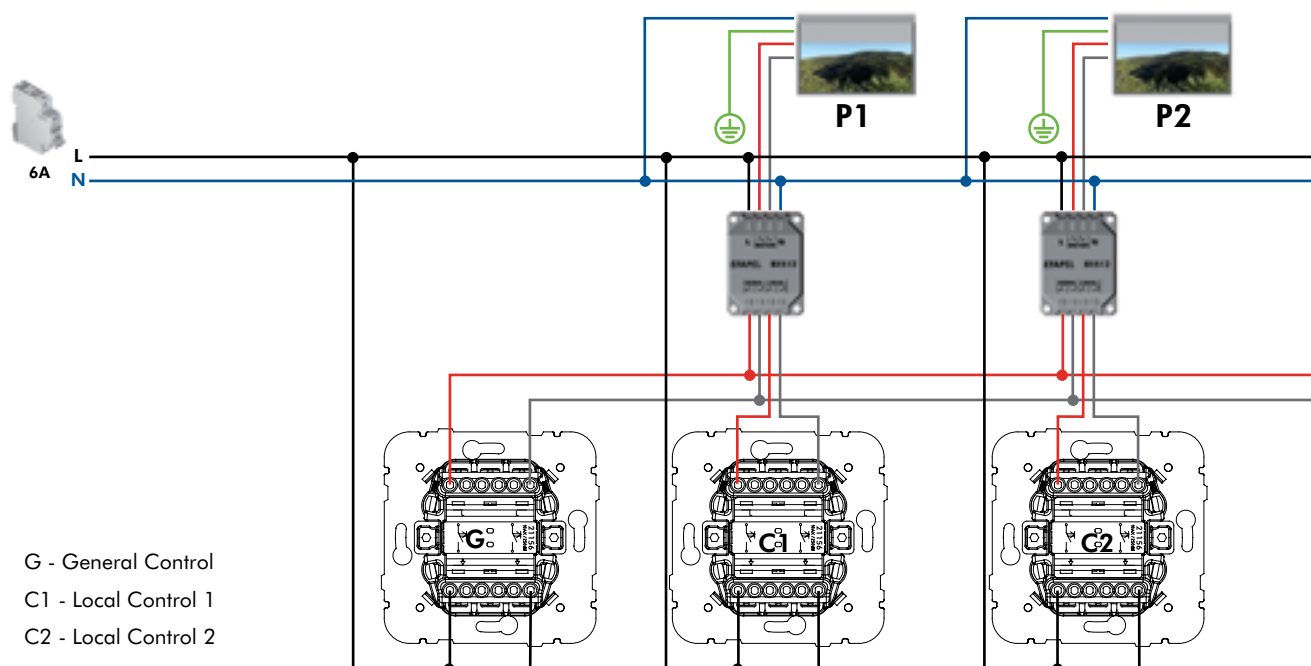


REF. 81511



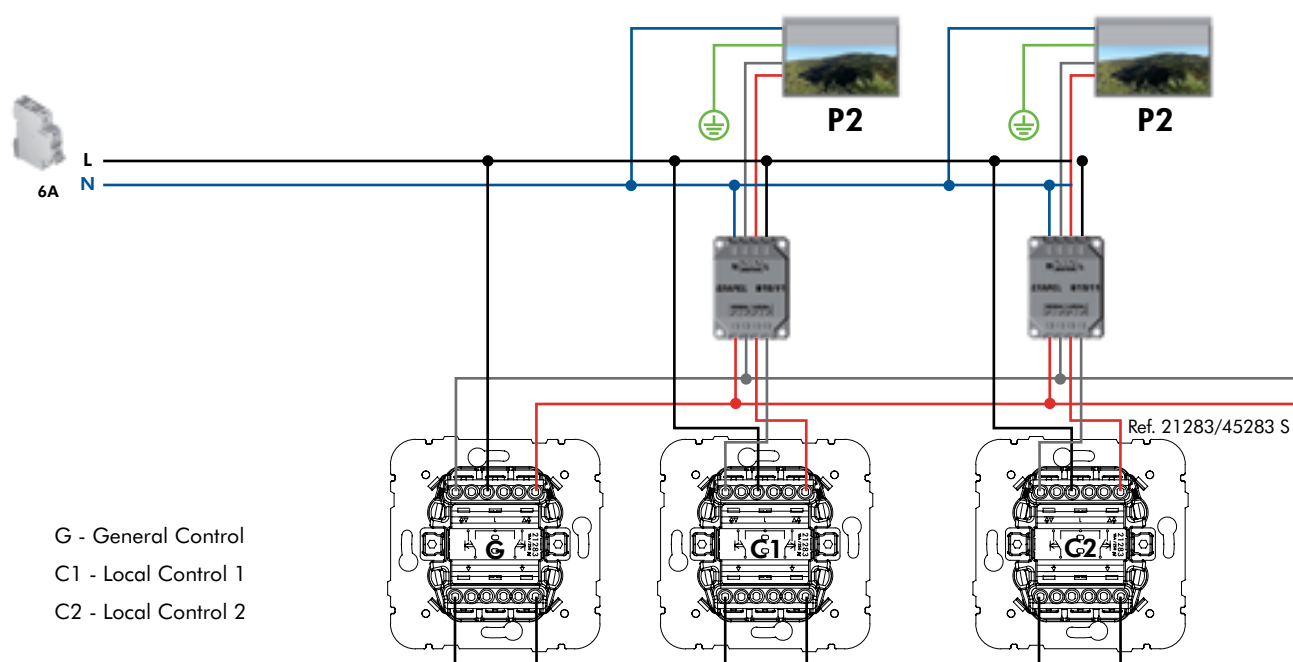
WIRING DIAGRAMS

■ BLINDS CENTRALIZED INSTALLATION - WITH AUTOMATIC RELAYS FOR BLINDS CONTROL (REF. 81512)



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.

■ BLINDS CENTRALIZED INSTALLATION - WITH RELAYS FOR BLINDS CONTROL (REF. 81511)

**Notes:**

- It is required to hold down the buttons in order to open / close entirely the blinds.
- 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.

■ AUTOMATIC RELAY FOR BLINDS CONTROL (REF. 81512)

N - Neutral
L - Phase
▲ - Output for motor - Up
▼ - Output for motor - Down
GENERAL - Inputs from the General Control
LOCAL - Inputs from the Local Control

■ RELÉ DE COMANDOS DE PERSIANA (REF. 81511)

N - Neutral
L - Phase
▲ - Output for motor - Up
▼ - Output for motor - Down
GENERAL - Inputs from the General Control
LOCAL - Inputs from the Local Control

DESCRIPTION



■ MEC 21 Mechanisms:

– Finishings - LOGUS⁹⁰ | APOLO 5000 | sirius70.

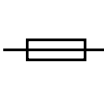
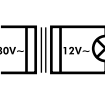
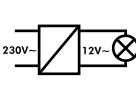
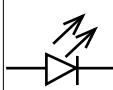
■ Allows to adjust the luminous flux of one or more lamps.

OPERATION

- Rotary variation of luminous flux.
- Press button for ON / OFF switching status.

CHARACTERISTICS

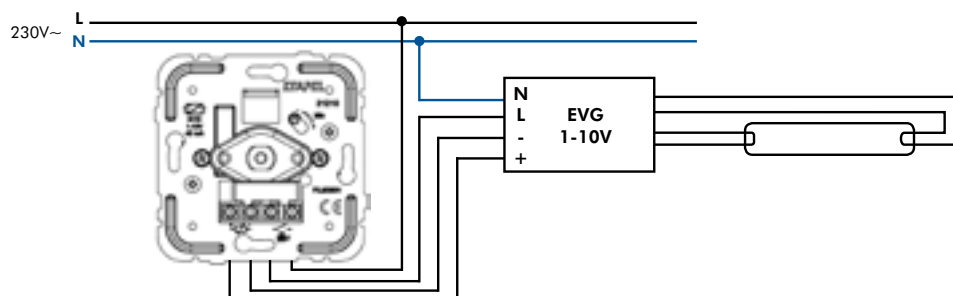
■ Maximum Recommended Loads

										
			R	R	RL	RC	CFL DIMMABLE	LED DIMMABLE	EVG 1-10V	M
REF.	TYPE	FUSE	MIN.	MAX.	MAX.	MAX.	MAX.	MAX.	MAX.	MAX.
21210	—	F0,8A/250V~	—	—	—	—	—	—	40mA	—
21211	 Phase-cut dimming in the Forward phase "Leading Edge"	T2A/250V~	20W/VA	500W	500W	500VA	—	—	—	—
21212	 Phase-cut dimming in the Reserve phase "Trailing Edge"	—	5W/VA	320W	320W	—	320VA	—	—	—
21213	 Phase-cut dimming in the Reserve phase "Trailing Edge"	—	20W/VA	550W	550W	—	550VA	—	—	—
21214	 Phase-cut dimming in the forward phase "Leading Edge"	T1A/250V~	7W/VA 3W (LED)	110W	110W	110VA	—	110W	35W	—
21215	 Phase-cut dimming in the Reserve phase "Trailing Edge"	—	15W/VA 3W (LED)	150W	150W	—	150VA	150W	50W	—
21216	 Phase-cut dimming in the forward phase "Leading Edge"	T2A/250V~	20W/VA 3W (LED)	250W	250W	250VA	—	250W	85W	—
21217	 Phase-cut dimming in the Reserve phase "Trailing Edge"	—	15W/VA 5W (LED)	450W	450W	—	450VA	450W	150W	—
21219	 Phase-cut dimming in the forward phase "Leading Edge"	F2,5A/250V~	25W/VA	600W	600W	—	—	—	—	600VA

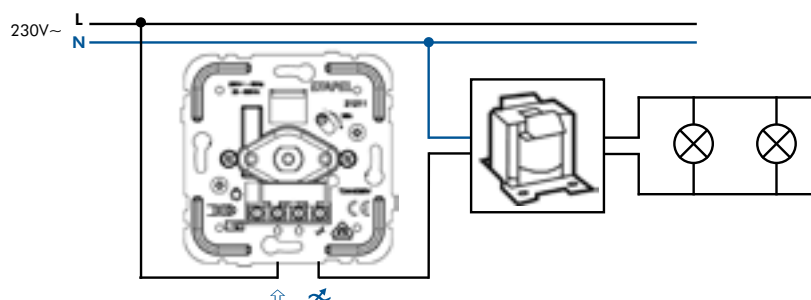
Note: Maximum number of recommended lamps for each circuit = 8 Lamps.

WIRING DIAGRAMS

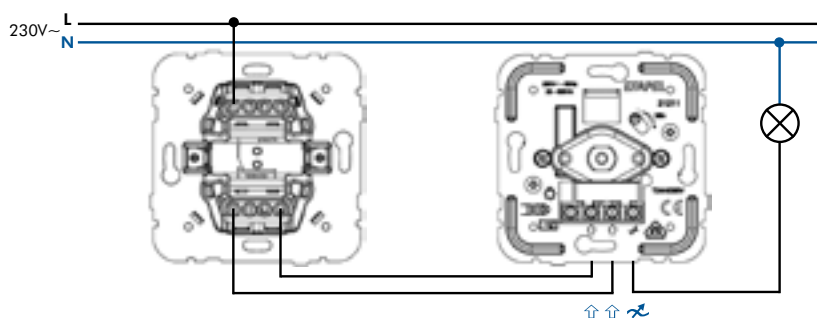
■ REF. 21210 (EVG 1-10V)



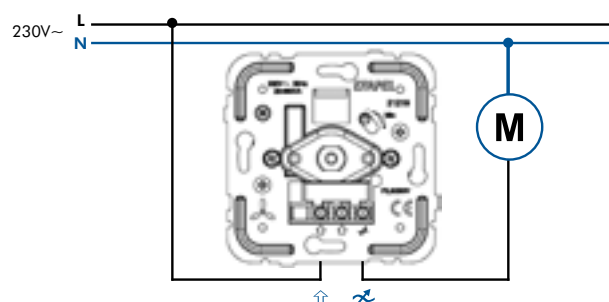
■ REF. 21211 / 21212 / 21213 / 21214 / 21215 / 21216 / 21217



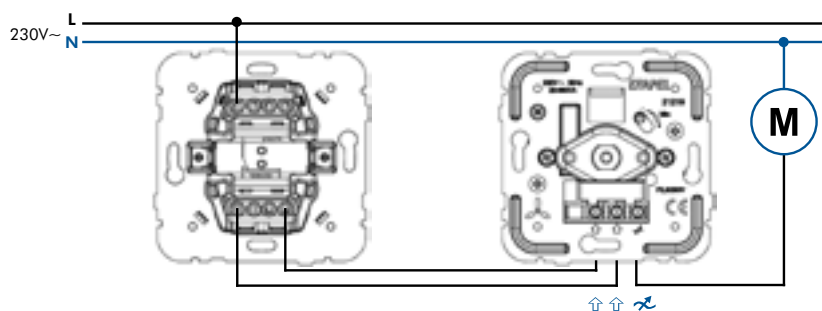
■ REF. 21211 / 21212 / 21213 / 21214 / 21215 / 21216 / 21217



■ REF. 21219



■ REF. 21219



BUZZER (REF. 21990)

DESCRIPTION



- MEC 21 Mechanisms:
 - Finishings - LOGUS⁹⁰ | APOLO 5000 | **sirius70**.

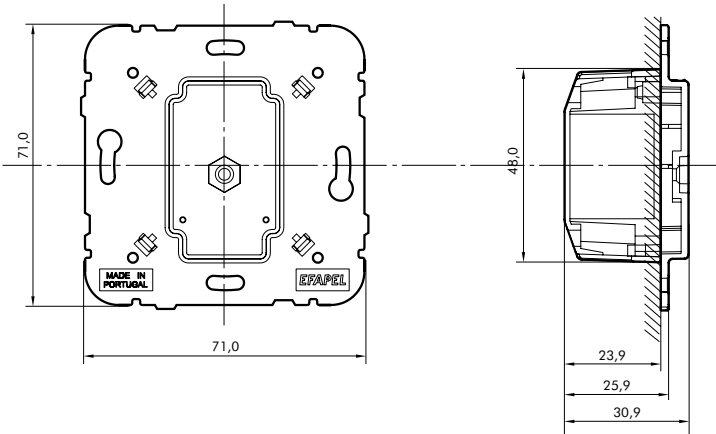
OPERATION

- Produces a sound signal when powered.

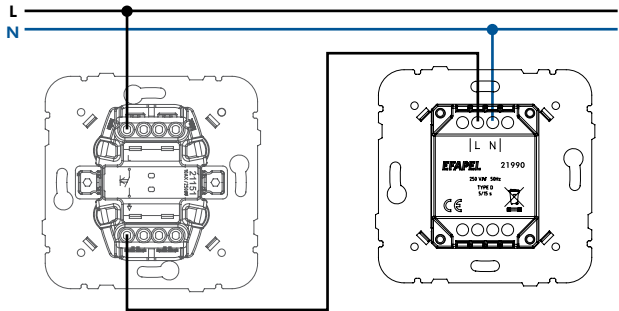
CHARACTERISTICS

- Voltage: 230V~ - 50Hz.
- Frequency: 50Hz.
- Type: D (Type D beep).
- Cycle of operation: 5/15 seconds.

DIMENSIONS (mm)



WIRING DIAGRAM



DESCRIPTION



- 21384 | 45384 S - USB Charger 2 saídas 20° tipo A - 2400mA.
- 45439 S - USB Charger 2 tipo A - 2100mA.
- 45383 S - USB Charger 2 tipo A - 1500mA.
- Enables the feeding/charging of devices through the USB outlet, such as mobile phones/ Smartphones, tablets, Powerbanks, MP3, MP4 etc.
- Semi-assembled devices - **QUADRO 45**:
- Finishings - **QUADRO 45** | **QUADRO 45** - Siza Vieira.
- MEC 21 Mechanisms:
- Compatible with finishes - LOGUS⁹⁰ | APOLO 5000 | **sirius70**.
- Available in colors **BR** - White, **MF** - Ivory, **AT** - Anthracite, **GE** - Ice, **PE** - Pearl, **AL** - Aluminium, **IS** - Gray, **BM** - White Matt, **PM** - Black Matt, **DU** - Golden, **CH** - Champagne, **PR** - Silver, **GR** - Graphite, **PL** - Platinum.

CHARACTERISTICS

	21384 45384 S	45439 S	45383 S
Mechanisms in technical thermoplastic - resistant material, non-conductive.			
Input voltage	100-240V~ - 50/60Hz	100-240V~ - 50/60Hz	100-240V~ - 50/60Hz
Output voltage	5V---	5V---	5V---
Input maximum current	2,4A	2,1A	1,5A
Efficiency	80%	78%	80%
Standby consumption	<0,1W	< 0,2W	<0,1W
Output	2xUSB type A	2xUSB type A	1xUSB type A

DIMENSIONS (mm)

21384 45384 S	45439 S	45383 S

WIRING DIAGRAMS

--	--	--

Screw connection terminals for the recommended wire connection 1,5 mm².

HDMI SOCKET (REF. 45435 S | 45436 S)

DESCRIPTION

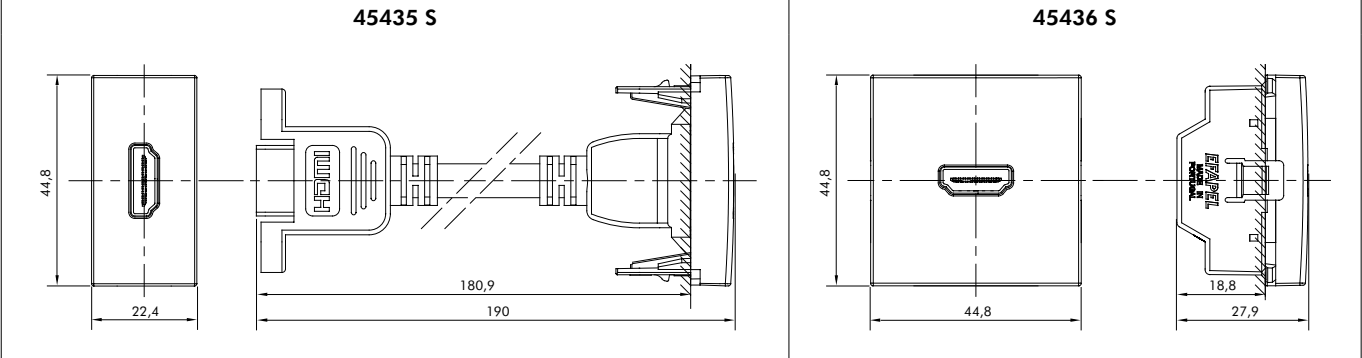


- 45435 S - HDMI Socket with Connector - 1 Module.
- 45436 S - HDMI Socket with Screwless Connect - 2 Modules.
- Enables the passage of Audio/Visual in high definition through the HDMI connector, between any transmitter (computer, DVD, ...) with a HDMI connection and a terminal (TV, LCD, Video projector,...).
- Semi-assembled devices - **QUADRO 45:**
 - Finishings - **QUADRO 45** | **QUADRO 45** - *Siza Vieira*.
- MEC 21 Mechanisms:
 - Compatible with finishes - **LOGUS⁹⁰** | **APOLLO 5000** | **sirius70**, with the adapter for each of the series (XX881 T).
- Available in colors **BR** - White, **MF** - Ivory, **AT** - Anthracite, **GE** - Ice, **PE** - Pearl, **AL** - Aluminium, **IS** - Gray, **BM** - White Matt; **PM** - Black Matt, **DU** - Golden, **CH** - Champagne, **PR** - Silver, **GR** - Graphite, **PL** - Platinum.

CHARACTERISTICS

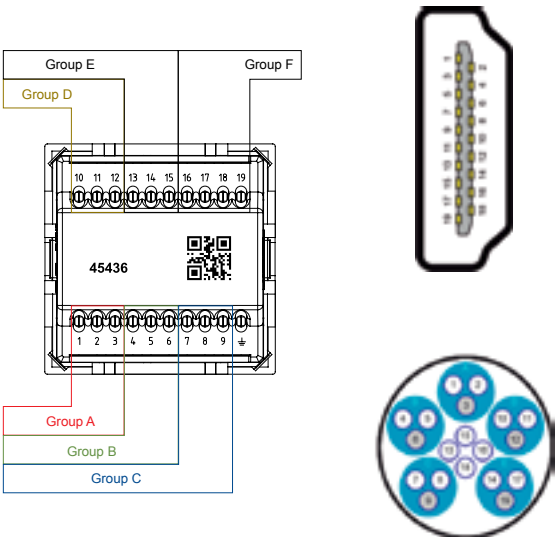
	45435 S	45436 S
Mechanisms in technical thermoplastic - resistant material, non-conductive.		
Connection	Throught cable cord (female connector)	Screw
Distance between HDMI sockets	10 meters	5 meters
Maximum resolution	1080p	1080p
Connectors	Type 1,4 E Version	Tipo 1,4 E Version

DIMENSIONS (mm)



WIRING DIAGRAMS

45436 S



Pino		Color	Group
Pino 1	TMDS Data2+	White	Group A / Red Group
Pino 2	TMDS Data2 Data Shield	Mesh	
Pino 3	TMDS Data2-	Red	
Pino 4	TMDS Data1+	White	Group B / Green Group
Pino 5	TMDS Data1 Data Shield	Mesh	
Pino 6	TMDS Data1-	Green	
Pino 7	TMDS Data0+	White	Group C / Blue Group
Pino 8	TMDS Data0 Data Shield	Mesh	
Pino 9	TMDS Data0-	Blue	
Pino 10	TMDS Clock+	White	Group D / Brown Group
Pino 11	TMDS Clock Data Shield	Mesh	
Pino 12	TMDS Clock-	Brown	
Pino 13	CEC	Red	Group E / Cables without group
Pino 14	Reserve, HEC Data - (Opcional, 1.4+ with canal Ethernet)	Roxo	
Pino 15	SCL (DDC)	Orange	
Pino 16	SDA (DDC)	Yellow	Group F / Remaining Cables without Group
Pino 17	DDC/CEC Ground	Green	
Pino 18	+5V Power	White	
Pino 19	Hot Plug Detect, HEC Data + (Opcional, 1.4+ with canal Ethernet)	Blue	

DATA SOCKET USB | VGA | RCA (REF. 45437 S | 45430 S | 45480 S)

DESCRIPTION

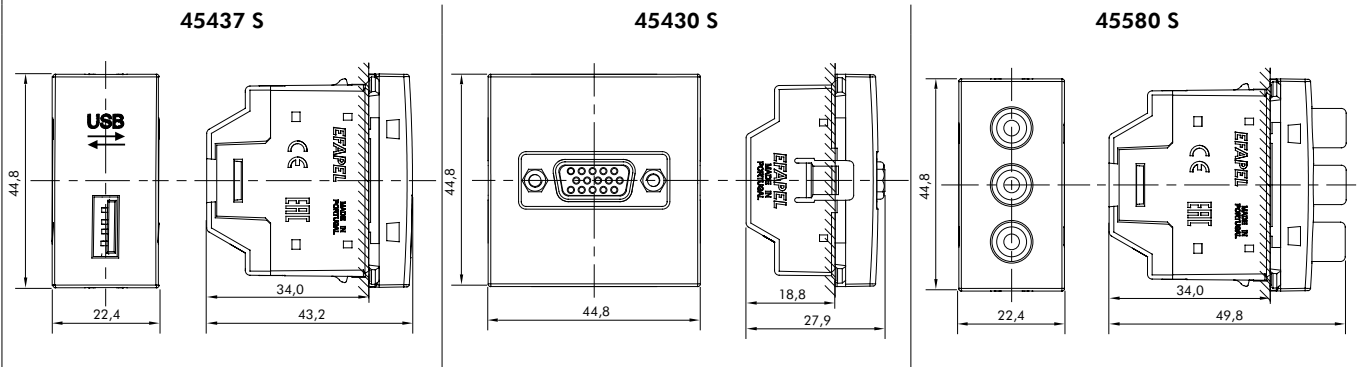


- 45437 S - USB Data Socket – 1 Module. Enables data passage through USB connection.
- 45430 S - Female HD15 Socket - 2 Modules. Enables the passage of video through a VGA connector between any transmitter (computer, DVD, ...) with a VGA connection and a terminal (TV, LCD, Videoprojetor, ...).
- 45580 S - Female RCA Socket 3 Outputs - 1 Module. Enables the passage of video through a RCA connector between any transmitter (computer, DVD,...) with a RCA connection and a terminal (TV, LCD, Video projector,...).
- Semi-assembled devices - **QUADRO 45**:
 - Finishings - **QUADRO 45** | **QUADRO 45** - *Siza Vieira*.
- MEC 21 Mechanisms:
 - Compatible with finishes - **LOGUS⁹⁰** | **APOLLO 5000** | **sirius70**, with the adapter for each of the series (XX881 T).
- Available in colors **BR** - White, **MF** - Ivory, **AT** - Anthracite, **GE** - Ice, **PE** - Pearl, **AL** - Aluminium, **IS** - Gray, **BM** - White Matt; **PM** - Black Matt, **DU** - Golden, **CH** - Champagne, **PR** - Silver, **GR** - Graphite, **PL** - Platinum.

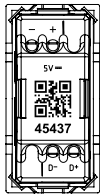
CHARACTERISTICS

	45437 S	45430 S	45580 S
Mechanisms in technical thermoplastic - resistant material, non-conductive.			
Connection	Screw	Screw	Screw
Distance between sockets	5 meters	15 meters	20 meters
Maximum speed	12 Mbit/s	not apply	not apply

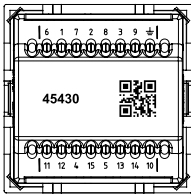
DIMENSIONS (mm)



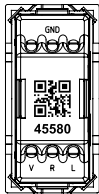
WIRING DIAGRAMS



Pino	
+	VBUS 5VDC
-	GROUND
D+	DATA +
D-	DATA -



Pino	
1	RED COAX
2	GREEN COAX
3	BLUE COAX
4	ORANGE (ID BIT 2 - NC)
5	RED (GND)
6	RED BRAID
7	GREEN BRAID
8	BLUE BRAID
9	WHITE (KEY)
10	BLUE (GND)
11	BROWN (ID BIT 0 - GND)
12	YELLOW (ID BIT 1 - SDA)
13	GREY (HORIZONTAL SYNCHRONIZATION)
14	GREEN (VERTICAL SYNCHRONIZATION)
15	BLACK (ID BIT 3 - SCL)
16	SHIELD (GROUND)



Pino	
V	VIDEO CABLE
R	RIGHT AUDIO SIGNALS
L	LEFT AUDIO SIGNALS
GND	GROUND

MULTIMEDIA SOCKETS | RADIO, TELEVISION AND SATELLITE SOCKETS

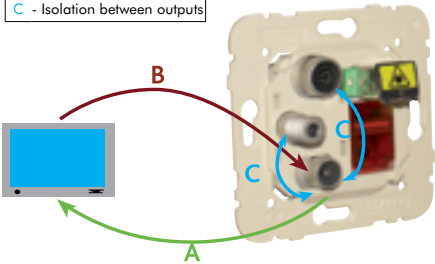
DESCRIPTION



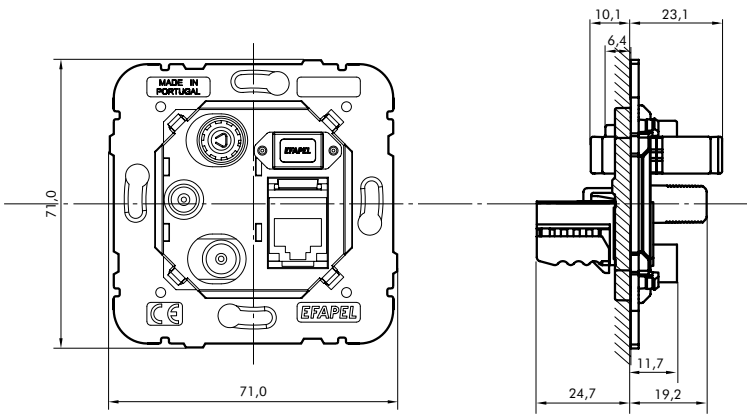
- MEC 21 Mechanisms (Multimedia Sockets | Radio, Television and Satellite Sockets):
 - Finishings - LOGUS⁹⁰ | APOLO 5000 | **sirius70**.
- Semi-assembled devices - **QUADRO 45**: (Radio, Television and Satellite Sockets):
 - Finishings - **QUADRO 45** | **QUADRO 45** - *Siza Vieira*.

CHARACTERISTICS

- A - Derivation attenuation
- B - Return Losses
- C - Isolation between outputs



DIMENSIONS (mm)



SOCKETS TYPE

TYPOLOGY		REF.	RADIO	TV	SAT	FO SC-APC	RJ45 Cat. 6
STAR CONNECTION		21543					
		21544					
		21545					
		21546					
		21533					
		21534					
		21535					
SERIES CONNECTION		21554					
		21555					
		21564					
		21565					

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					
			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				
REF.																
STAR 21543 21544 21545 21546 45543 S NQ 2b	IEC MALE	TV	0,8	1,0	0,8	0,8	0,8	0,8	0,8	2,0	--	--	--	>20	>18	--
	IEC FEMALE	R	17,4	17,4	17,4	17,4	17,4	17,4	17,4	17,4	--	--				--
	F FEMALE	SAT	--	--	--	--	--	--	--	--	2,2	2,6				(SAT-IN) 500mA
TERMINAL 21555 45555 S NQ 2b	IEC MALE	TV	6,2 ^{±1}	6,2 ^{±1}	6,2 ^{±1}	6,2 ^{±1}	6,0 ^{±1}	6,2 ^{±1}	5,8 ^{±1}	8,6 ^{±1}	--	--	--	>12	>18	--
	IEC MALE	R	15	15	15	15	15	15	15	15	--	--				--
	F FEMALE	SAT	--	--	--	--	--	--	--	--	5,6 ^{±1}	6,4 ^{±1}				(SAT-IN) 500mA
PASSAGE 21565 45565 S NQ 2b	IEC MALE	TV	10,0 ^{±1}	10,0 ^{±1}	10,0 ^{±1}	10,0 ^{±1}	9,6 ^{±1}	10,0 ^{±1}	10,0 ^{±1}	10,0 ^{±1}	--	--	<3,6	>12	>18	--
	IEC FEMALE	R	20,0 ^{±1}	20,0 ^{±1}	20,0 ^{±1}	20,0 ^{±1}	20,0 ^{±1}	20,0 ^{±1}	20,0 ^{±1}	20,0 ^{±1}	--	--				--
	F FEMALE	SAT	--	--	--	--	--	--	--	--	11,0 ^{±1}	8,6 ^{±1}				(SAT-IN) 500mA

■ R - TV SOCKETS (IMPEDANCE OF 75 Ohm)

EQUALIZED	OUTPUTS		DERIVATION LOSSES (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				
			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			
REF.															
STAR 21533 21534 21535 45533 S NQ 2a	IEC MALE	TV 	0,2	0,4	0,4	--	1,0	1,0	0,4	0,8	--	--	--	>20	--
	IEC FEMALE	R 	--	--	--	2,0±0.3	--	--	--	--	--	--			
TERMINAL 21554 45554 S NQ 2a	IEC MALE	TV 	5,8±1	6,0±1	6,0±1	--	6,0±1	6,0±1	6,0±1	6,4±1	--	--	--	>20	>18
	IEC FEMALE	R 	--	--	--	8,2±1	--	--	--	--	--	--			
PASSAGE 21564 45564 S NQ 2a	IEC MALE	TV 	8,2±1	8,2±1	8,2±1	--	8,0±1	7,4±1	7,4±1	8,4±1	--	--	1,6±0.5	>20	>18
	IEC FEMALE	R 	--	--	--	8,8±1	--	--	--	--	--	--			

JAZZ LIGHT - SURROUNDING SOUND

1. INSTALLATION SELECTION

■ INSTALLATION WITH MODULAR SOUND CENTRAL UNITS:



POWER SUPPLY



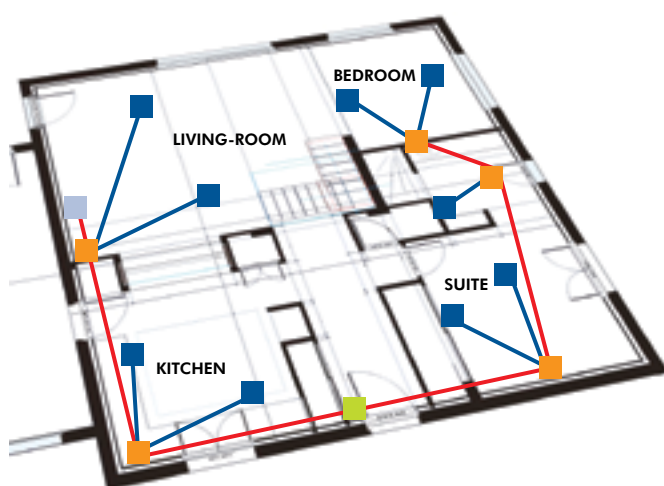
MODULAR SOUND CENTRAL UNIT



SOUND CONTROL UNIT



LOUSPEAKERS

■ **Modular Sound Central Unit with FM Tuner associated with Sound Control Units without FM Tuner:**

- Broadcast of the same audio signal (radio / external source) throughout the space.
- Individual volume control.
- Installation suitable for OPEN SPACE / commercial spaces.

■ **Modular Sound Central Unit without FM Tuner:**

- Broadcast from an external source throughout the space.
- Full autonomy tuning in the different spaces.

■ INSTALLATION WITHOUT MODULAR SOUND CENTRAL UNITS:



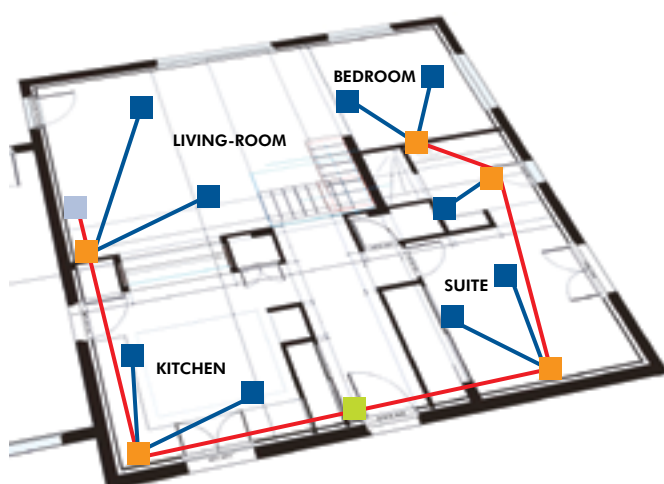
POWER SUPPLY



SOUND CONTROL UNIT



LOUSPEAKERS

■ **Sound Control Units with FM Tuner:**

- Full autonomy controlling all features.

JAZZ LIGHT - SURROUNDING SOUND

2. POWER SUPPLIES

DESCRIPTION

■ The Power Supplies are intended to transform the network voltage value, rectify it and supply the Sound Centrals and Controls Units with a voltage of 15V ---.

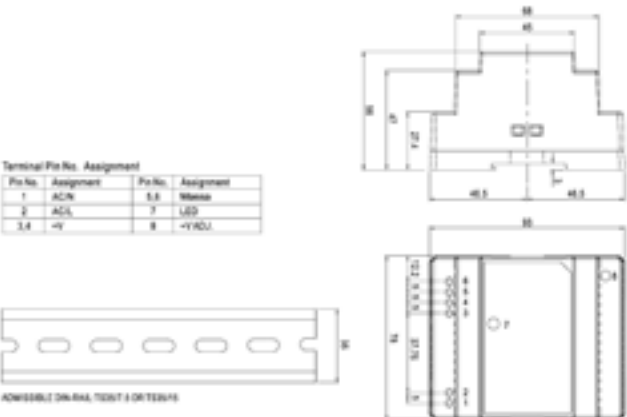


2.1 Power Supply 15V--- 30W for DIN Rail Mounting

CHARACTERISTICS

	PARAMETER	UNIT	MINIMUM	PROVIDED	MAXIMUM	OBS.
INPUT	VOLTAGE	V~	85	230	264	
	FREQUENCY	Hz	47 ~ 63			
	CONSUMPTION	A	0,48			230V~
	EFFICIENCY	%	83			
OUTPUT	VOLTAGE	V---	15			
	CURRENT	A	2,0			(Máx.)
	POWER	W	30			
INSTALLATION NOTES	1. Can be installed in the electrical panel or in a secondary or a floor electrical panel; 2. The tubing to supply electrical energy to the sound system must be independent of the others; 3. Each power supply can supply energy to 10 Stereo Channel Sound Control Units and 1 Modular Sound Central Unit or 20 Mono Channel Sound Control Units and 1 Module Sound Central Unit.					

DIMENSIONS (mm) | CONNECTIONS



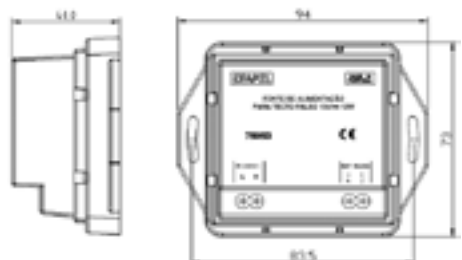


2.2 Power Supply 15V--- 12W for Installation in Hollow Ceilings

CHARACTERISTICS

	PARAMETER	UNIT	MINIMUM	PROVIDED	MAXIMUM	OBS.
INPUT	VOLTAGE	V~	85	230	264	
	FREQUENCY	Hz	47 ~ 63			
	CONSUMPTION	A	0,174			230V~
	EFFICIENCY	%	85			
OUTPUT	VOLTAGE	V---	15			
	CURRENT	A	0,8			(Máx.)
	POWER	W	12			
INSTALLATION NOTES	1. Fits in the back of the 5" loudspeakers installed in a Flush Mounting Deep Ceiling Box for 5" Loudspeakers (Ref. 75984);					
	2. The tubing to supply electrical energy to the sound system must be independent of the others;					
	3. Each power supply can supply energy to 4 Stereo Channel Sound Control Units and 1 Module Sound Central Unit, or 8 Mono Channel Sound Control Units and 1 Module Sound Central Unit.					

DIMENSIONS (mm) | CONNECTIONS



TERMINAL		PARAMETER	
L		230V~	AC PHASE IN
N		230V~	AC NEUTRAL IN
2	15V---	(+) Out	
4		(-) Out	

JAZZ LIGHT - SURROUNDING SOUND

2. POWER SUPPLIES (CONTINUATION)

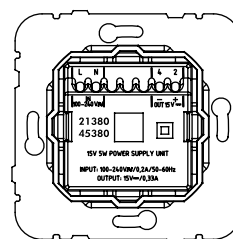


2.3 Power Supply Module 15V --- 5W

CHARACTERISTICS

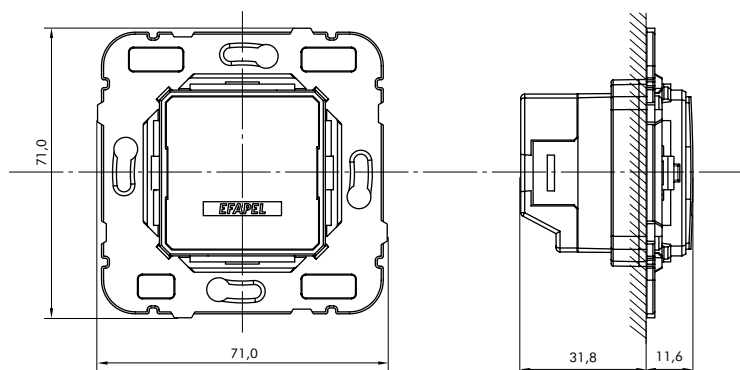
	PARAMETER	UNIT	MINIMUM	PROVIDED	MAXIMUM	OBS.
INPUT	VOLTAGE	V~	100	230	264	
	FREQUENCY	Hz	47 ~ 63			
	CONSUMPTION	A	0,065			230V~
	EFFICIENCY	%	85			
OUTPUT	VOLTAGE	V---	15			
	CURRENT	A	0,3			(Máx.)
	POWER	W	5			
INSTALLATION NOTES	1. Can be installed in mechanisms boxes* (Ref. 21380) or in Cable Trunking adapters of the QUADRO 45 Series (Ref. 45380 S);					
	2. The tubing to supply electrical energy to the sound system must be independent of the others;					
	3. Each Power Supply can feed energy to 1 Stereo or Mono Sound Control.					
	NOTE: * - Use preferably deep mechanism boxes.					

CONNECTIONS



TERMINAL	PARAMETER
L	230V~ AC PHASE IN
N	230V~ AC NEUTRAL IN
2	15V--- (+) Out
4	15V--- (-) Out

DIMENSIONS (mm)

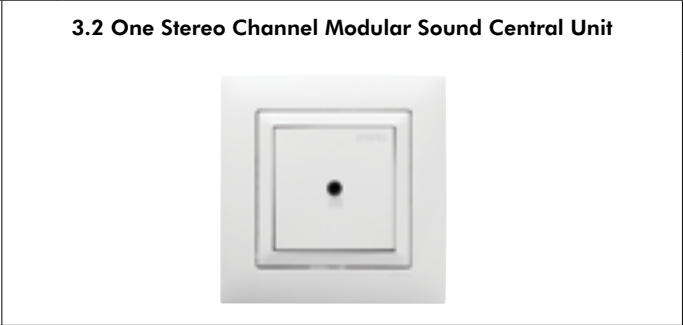


JAZZ LIGHT - SURROUNDING SOUND

3. MODULAR SOUND CENTRAL UNITS

DESCRIPTION

■ The Modular Sound Central Units main function is to receive the audio signal from an external source, transform it and send it to the Sound Control Units installed in the entire sound system installation.



CHARACTERISTICS					
PARAMETER	UNIT	MINIMUM	PROVIDED	MAXIMUM	OBS.
POWER SUPPLY					
VOLTAGE	V---	13,5	15,0	16,5	—
CONSUMPTION	mA	1,0	—	70	STANDBY/ON
AUDIO (AUX)					
INPUT SENSITIVITY	Vrms	—	1,0	—	Vout = 1,2V
INPUT IMPEDANCE	KΩ	—	30,0	—	—
FREQUENCY RESPONSE	Hz	20	—	<20k	-3dB
FM TUNER (Ref. XX392)					
OUTPUT LEVEL FM	Vrms	—	0,7	—	75KHz
FREQUENCY RANGE	MHz	87,5	—	108	—

Audio Input through 3,5mm Jack.

CONNECTIONS		
TERMINAL	PARAMETER	
IN	+ (2)	POWER SUPPLY (+) 15V---
	- (4)	COMMON (-)
OUT	+ (2)	POWER SUPPLY OF SOUND CONTROL UNITS 15V---
	- (4)	
AUDIO IN	R	SOUND INPUT RIGHT CHANNEL
	-	SOUND INPUT COMMON
	L	SOUND INPUT LEFT CHANNEL
AUDIO OUT	R	SOUND OUTPUT RIGHT CHANNEL
	L	SOUND OUTPUT LEFT CHANNEL
A	ANTENNA	

DIMENSIONS (mm)	
Ref. XX392	
Ref. XX391	

JAZZ LIGHT - SURROUNDING SOUND

4. SOUND CONTROL UNITS

DESCRIPTION

- The Sound Control Units have the main function to receive the audio signal from the internal tuner or from an external local source, amplify and distribute it to the loudspeakers.

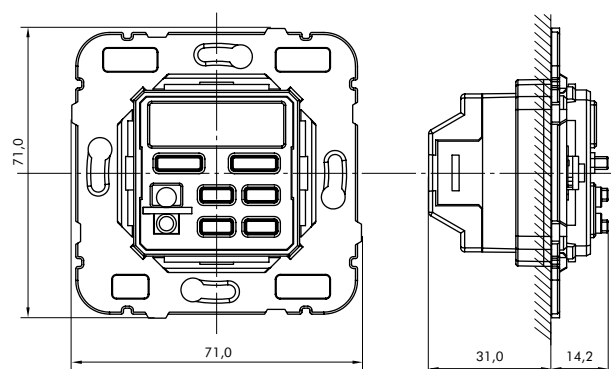


4.1 One Stereo Channel Sound Control Unit with FM Tuner, Alarm Clock and Infrared Remote Control

CHARACTERISTICS

PARAMETER	UNIT	MINIMUM	PROVIDED	MAXIMUM	OBS.
POWER SUPPLY					
VOLTAGE	V ₋₋₋	—	12	18	—
CONSUMPTION	mA	1,5	60	300	STANDBY/ON/ MAXIMUM POWER
AUDIO (AUX)					
INPUT SENSITIVITY	V _{rms}	—	2,0	—	—
INPUT IMPEDANCE	K Ω	—	10	—	—
POWER OUTPUT	W	—	—	1,5 + 1,5	OUTPUT IMPEDANCE- 32 Ω
FREQUENCY RESPONSE	Hz	30	—	<20k	-3dB
FM TUNER					
FREQUENCY RANGE	MHz	87,5	—	108	—

DIMENSIONS (mm)



NOTE: For other Sound Control Units characteristics consult the technical data sheet sat@efapel.com

5. STEREO/MONO AMPLIFIER

DESCRIPTION

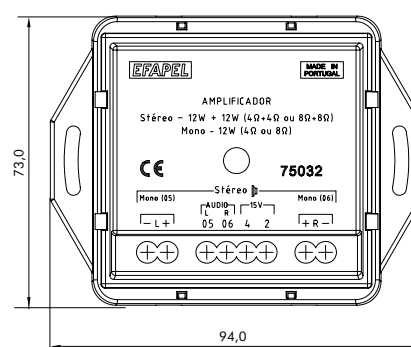


- The Stereo/Mono Amplifier amplifies the audio signal from a Sound Control Unit when it is necessary more audio power than the supplied by a normal Sound Control Unit.

CHARACTERISTICS

PARAMETER	UNIT	MINIMUM	PROVIDED	MAXIMUM	OBS.
POWER SUPPLY					
VOLTAGE	V ₋₋₋	—	16	18	—
CONSUMPTION	mA	1,4	50	820	STANDBY/ON MAXIMUM POWER
AUDIO (AUX)					
INPUT SENSITIVITY	V _{rms}	—	—	3,5	7V ₋₋₋
OUTPUT IMPEDANCE	Ω	4 Ω + 4 Ω STEREO / 8 Ω MONO			
POWER OUTPUT	W	—	3,6 + 3,6	5 + 5	STEREO
			6,4	8	MONO
FREQUENCY RESPONSE	Hz	18	—	<20k	-3dB

DIMENSIONS (mm)

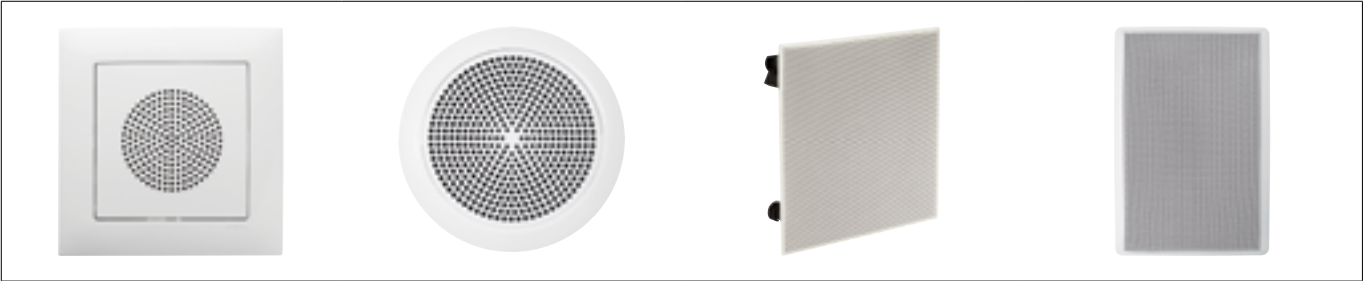


JAZZ LIGHT - SURROUNDING SOUND

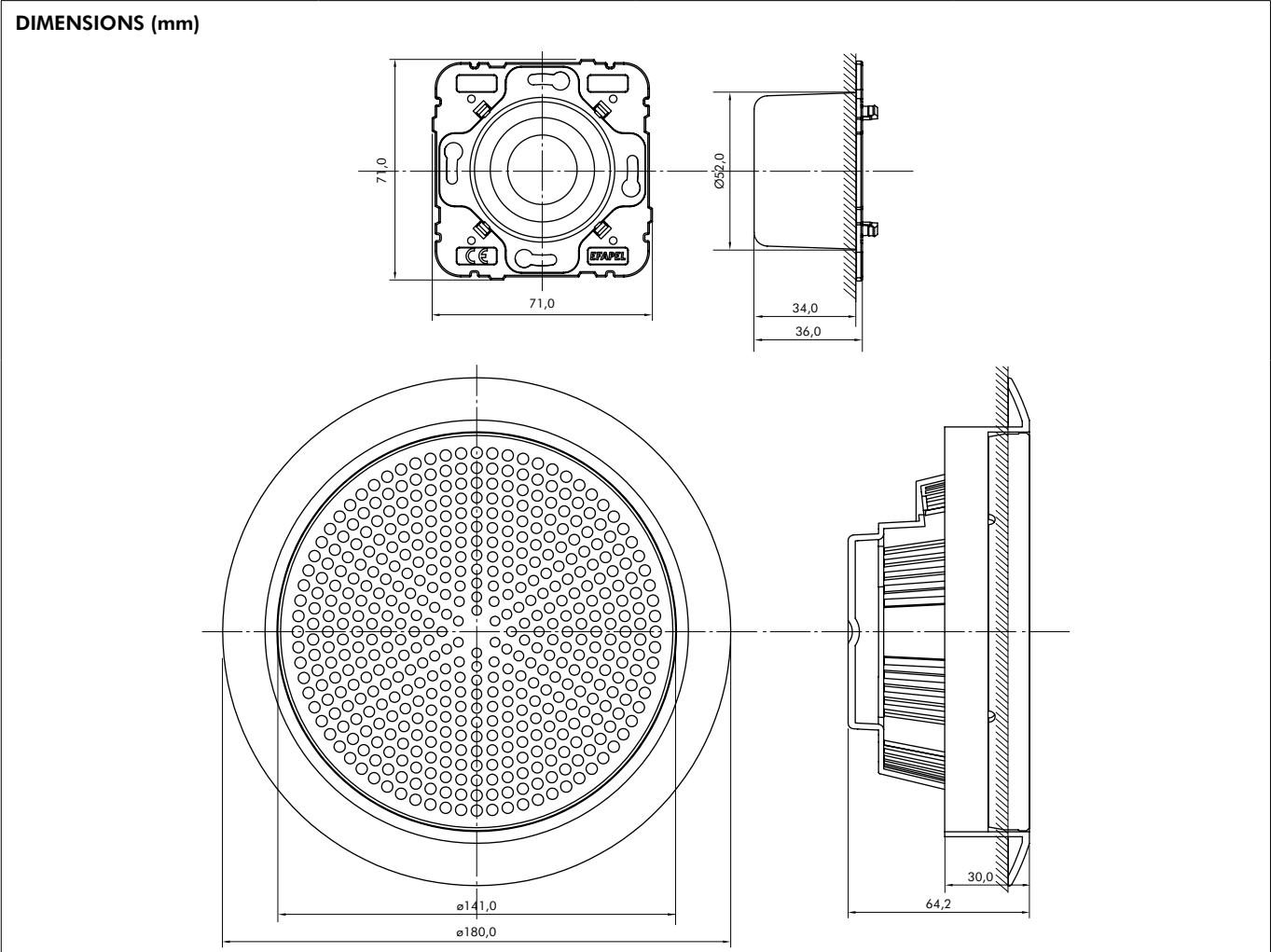
6. LOUDSPEAKERS

DESCRIPTION

■ The Loudspeakers are responsible for receiving the audio signal from the Sound Control Units and turning it into vibrations that are transmitted to the environment, originating sound.

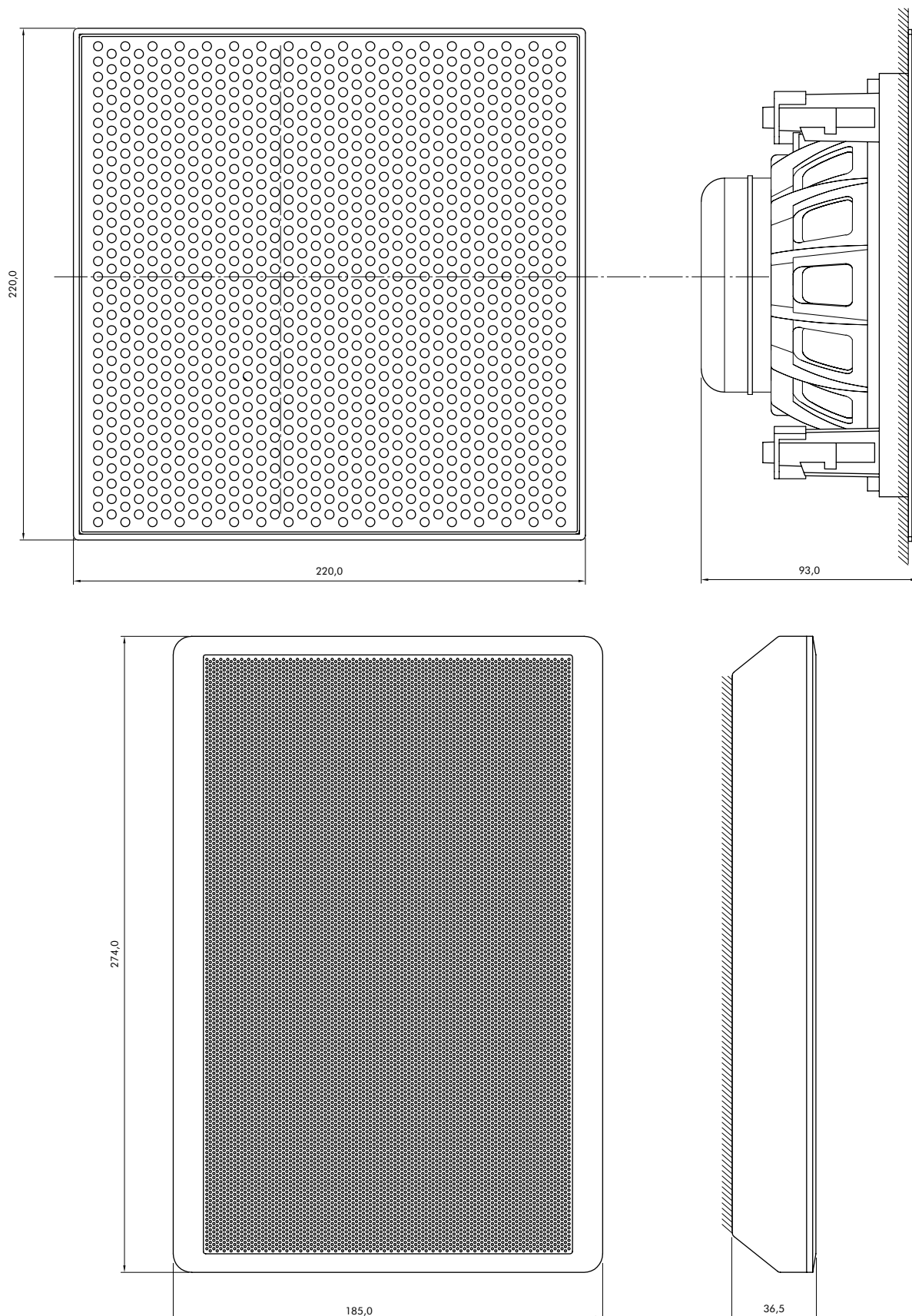


PARAMETER	UNIT	MODEL				OBSERVATIONS
TYPE	INCHES	2"	5"	6,5"	5"	1" = 2,54cm
INSTALLATION	—	FLUSH MOUNTING			SURFACE MOUNTING	—
IMPEDANCE	Ohm	32	32 / 16 / 8	32 / 16 / 8	32 / 16 / 8	—
MAXIMUM POWER	W	10	30	60	15	—
FREQUENCY RESPONSE	Hz	450 to 5000	70 to 15000	60 to 20000	80 to 19000	-6dB



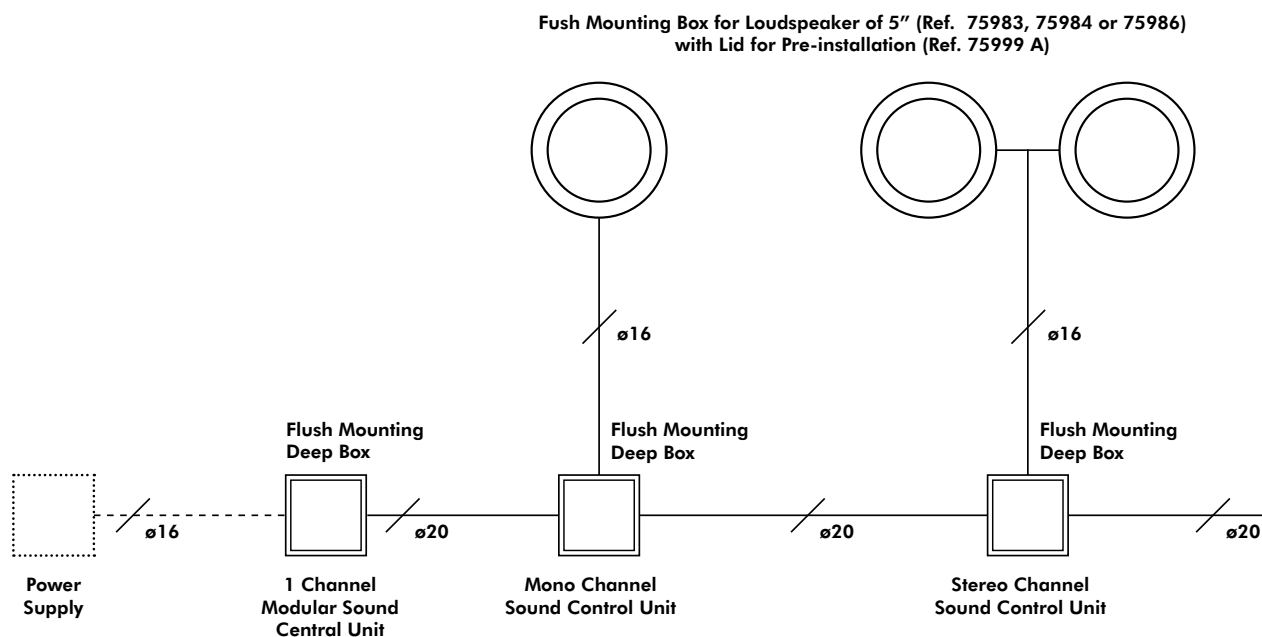
6. LOUDSPEAKERS (CONTINUATION)

DIMENSIONS (mm)



7. PRE-INSTALLATION

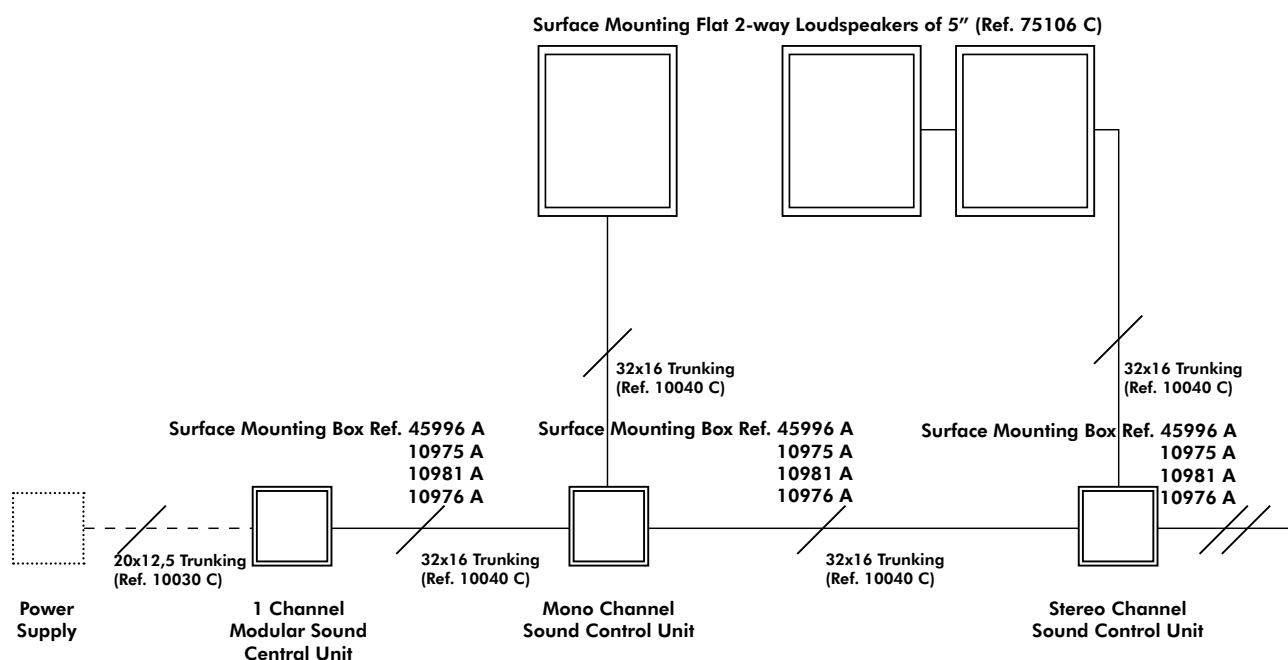
■ FLUSH MOUNTING PRE-INSTALLATION



Notes:

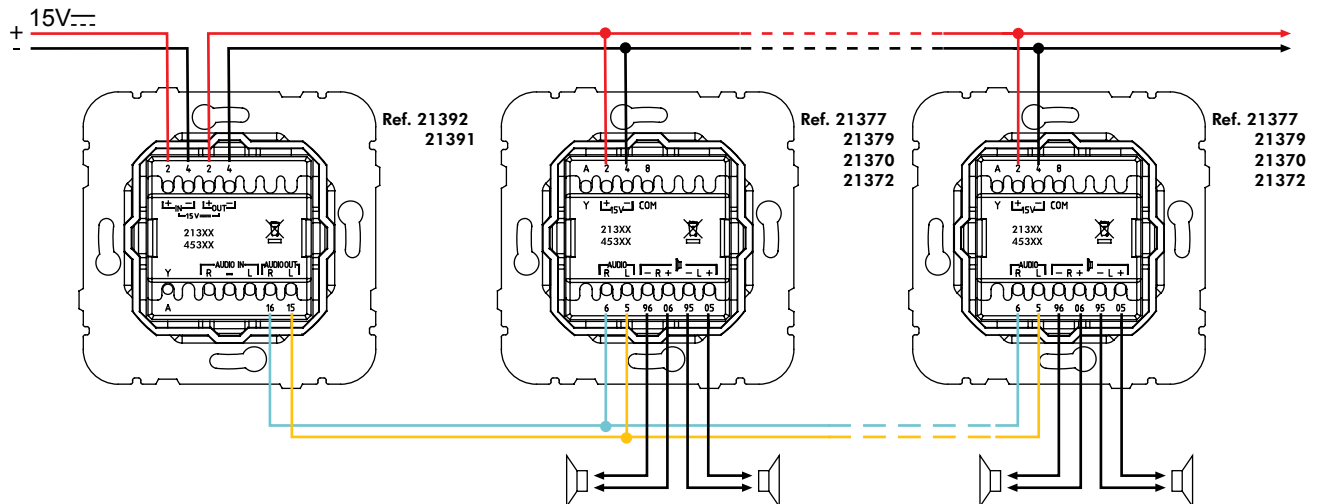
- To install the Loudspeakers of 5" in hollow ceilings, the diameter of the hole should be **Ø160mm**.
- For Loudspeakers of 6,5" the opening should be square and with dimensions of **185mm x 185mm**.

■ SURFACE MOUNTING PRE-INSTALLATION

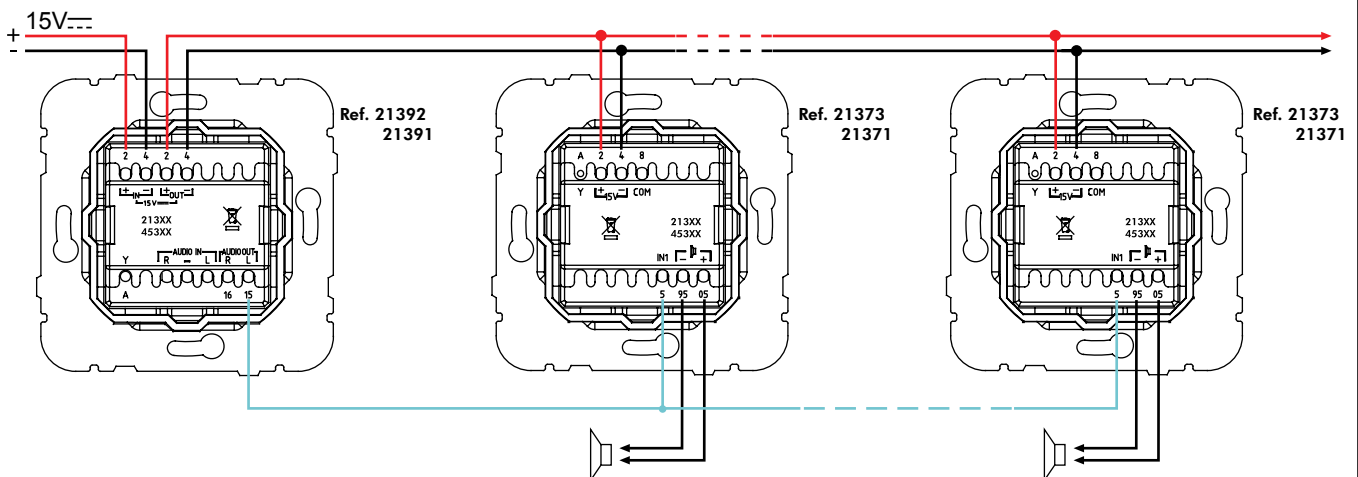


8. INSTALLATION WITH MODULAR SOUND CENTRAL UNIT

■ 1 STEREO CHANNEL SOUND CONTROL UNIT WITH/WITHOUT FM TUNER

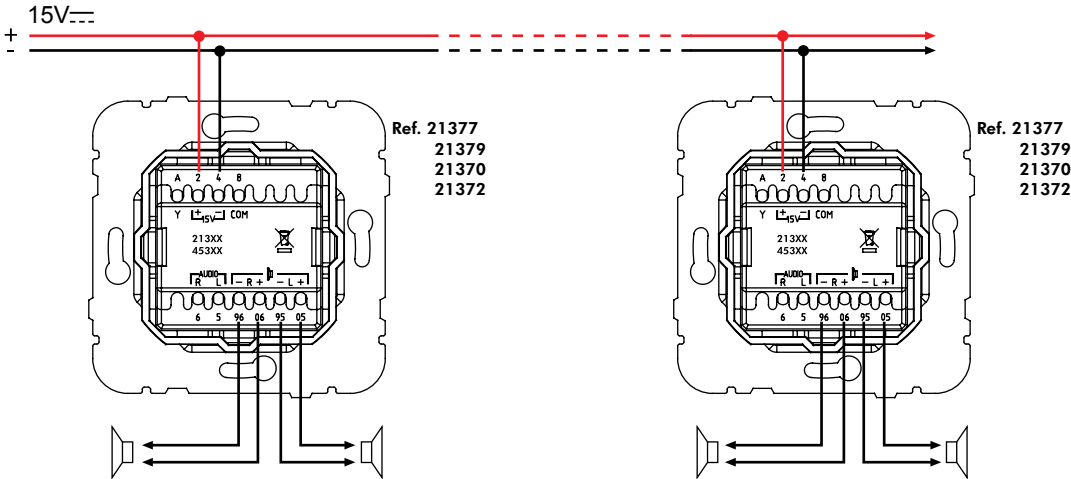


■ 1 MONO CHANNEL SOUND CONTROL UNIT WITH/WITHOUT FM TUNER

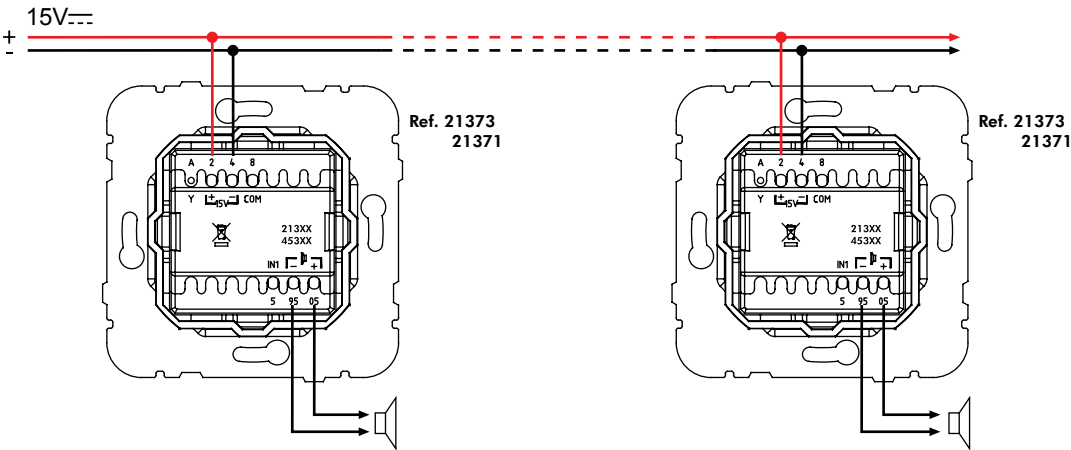


9. INSTALLATION WITHOUT MODULAR SOUND CENTRAL UNIT

■ STEREO CHANNELS SOUND CONTROL UNIT WITH/WITHOUT FM TUNER



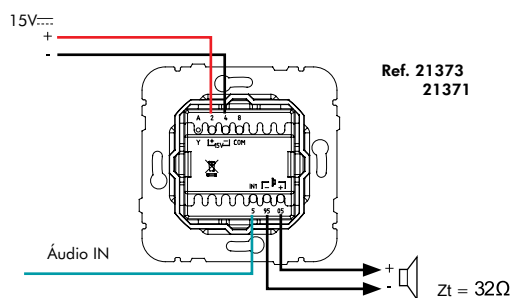
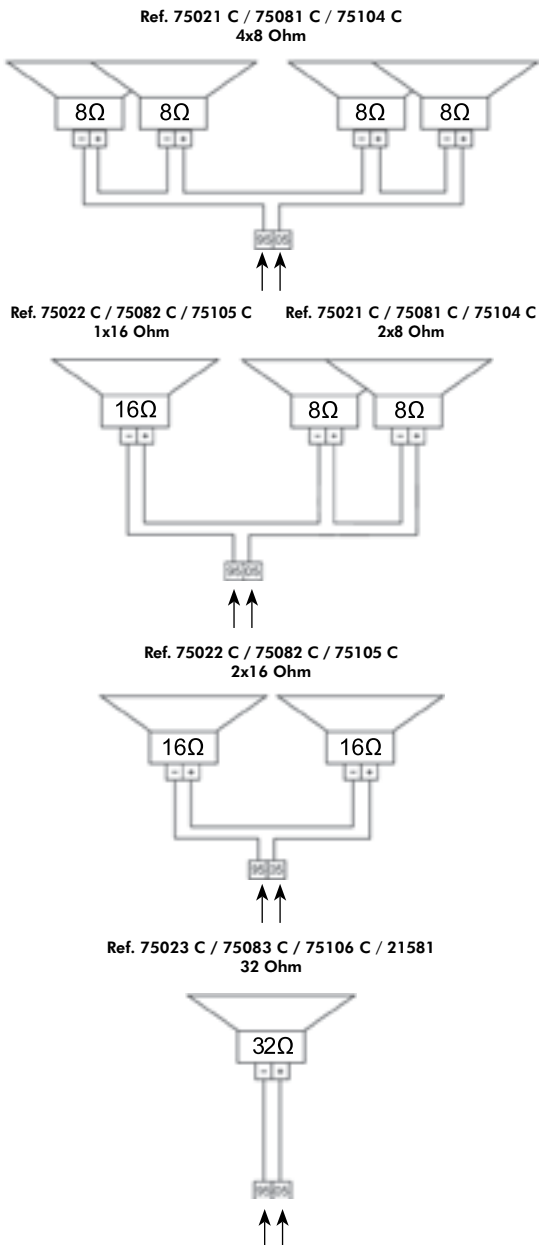
■ MONO CHANNELS SOUND CONTROL UNIT WITH/WITHOUT FM TUNER



10. SELECTION GUIDE OF LOUDSPEAKERS

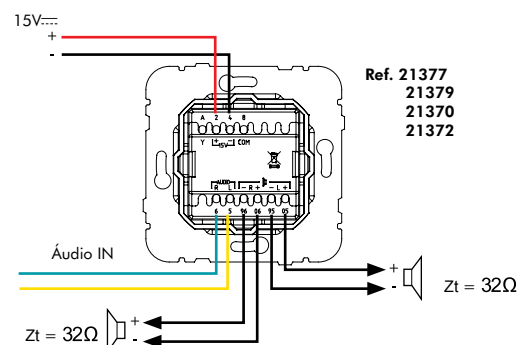
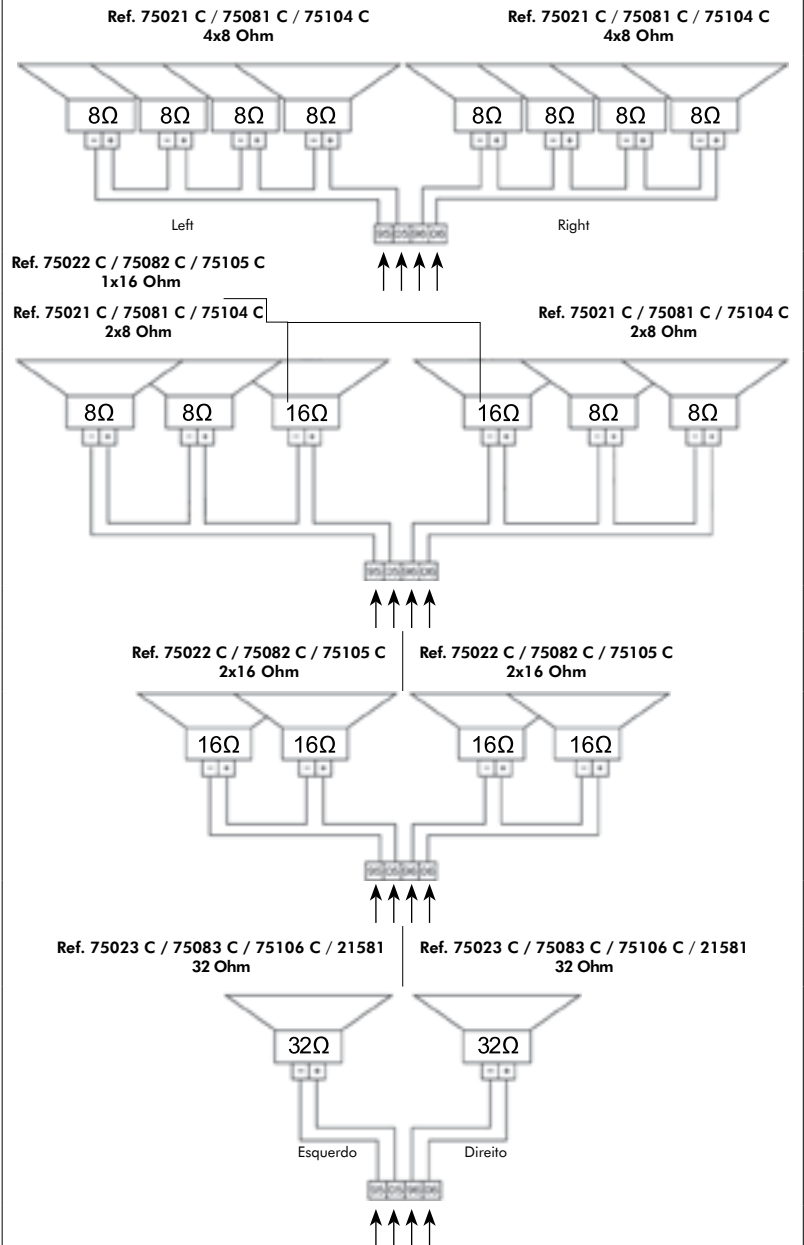
MONO INSTALLATION

The total impedance of the serial / parallel connection must be equal to 32 Ohm, for output



STEREO INSTALLATION

The total impedance of the serial / parallel connection must be equal to 32 Ohm, for output

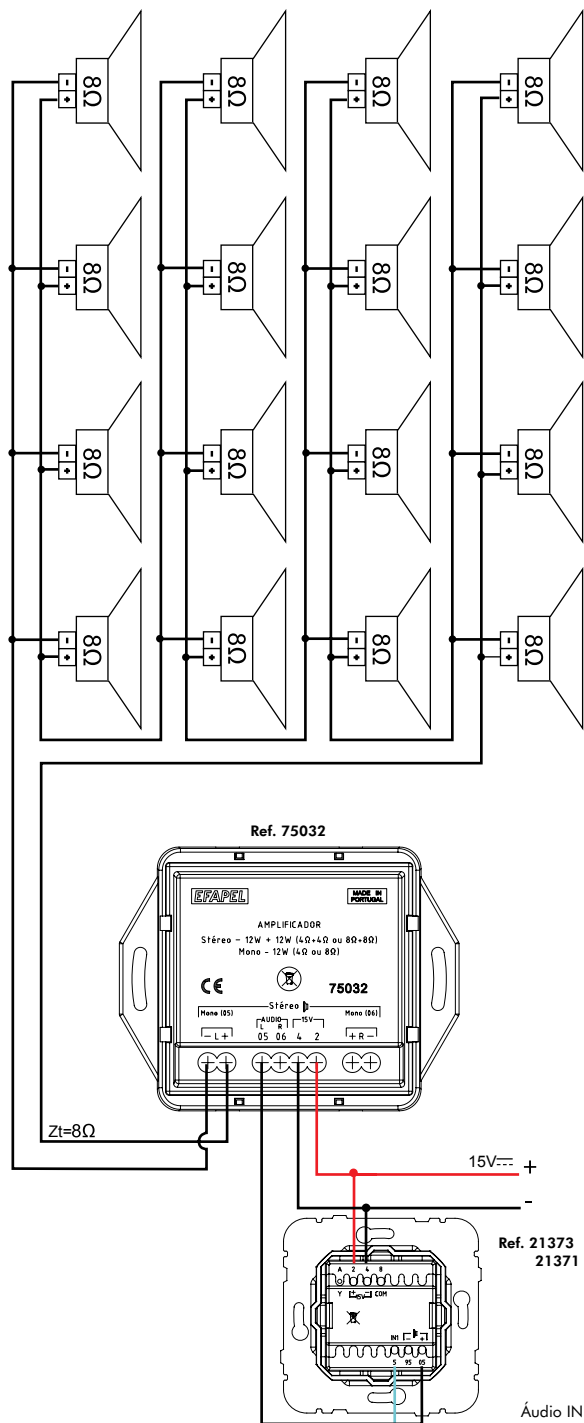


10. SELECTION GUIDE OF LOUDSPEAKERS (CONTINUATION)

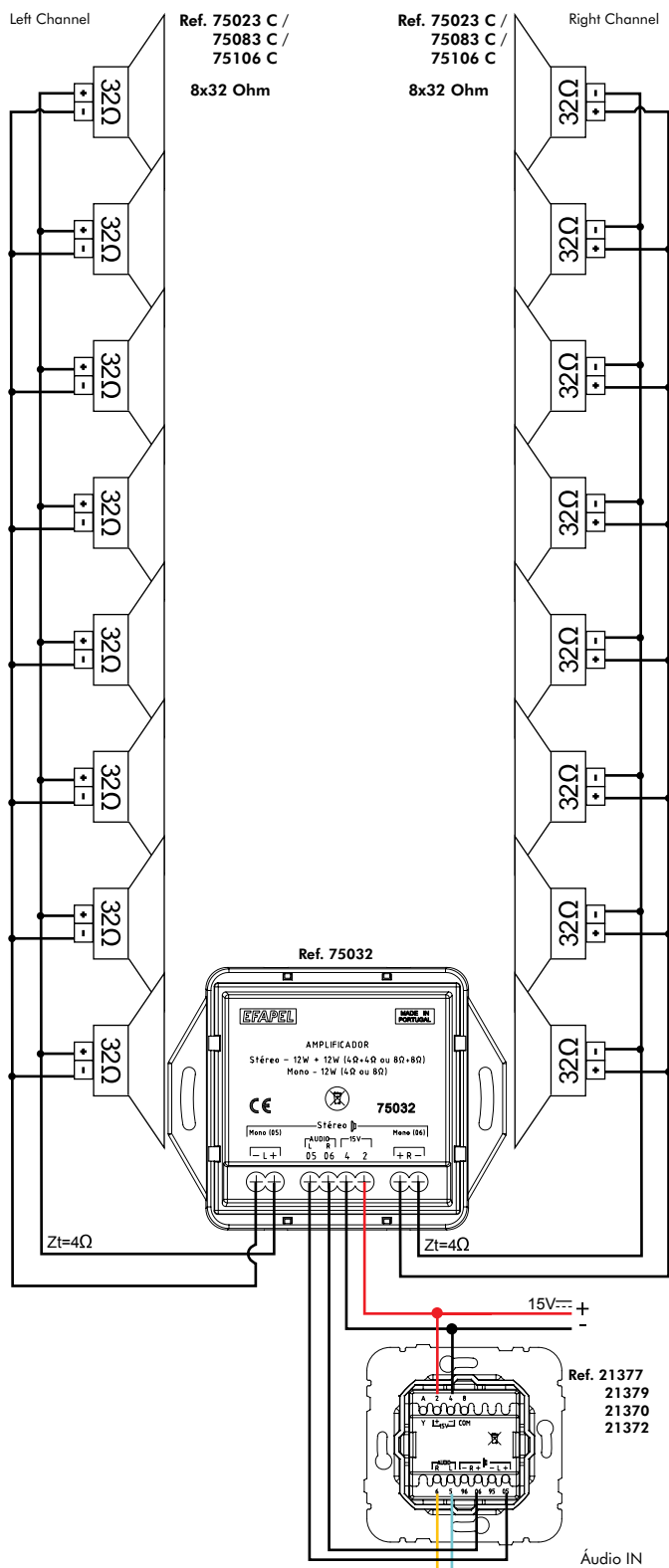
MONO INSTALLATION OF 16 LOUDSPEAKERS
WITH STEREO/MONO AMPLIFIER

4 groups in series of 4 Loudspeakers - 8 Ohm in parallel
(= 8Ω)

Ref. 75021 C / 75081 C / 75104 C
16x8 Ohm

STEREO INSTALLATION OF 10 TO 16 LOUDSPEAKERS
WITH STEREO/MONO AMPLIFIER

The total impedance of the parallel must be equal to 4 Ohm, for output



WATERPROOF 48 - WATERPROOF DEVICES

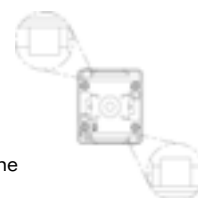
DESCRIPTION



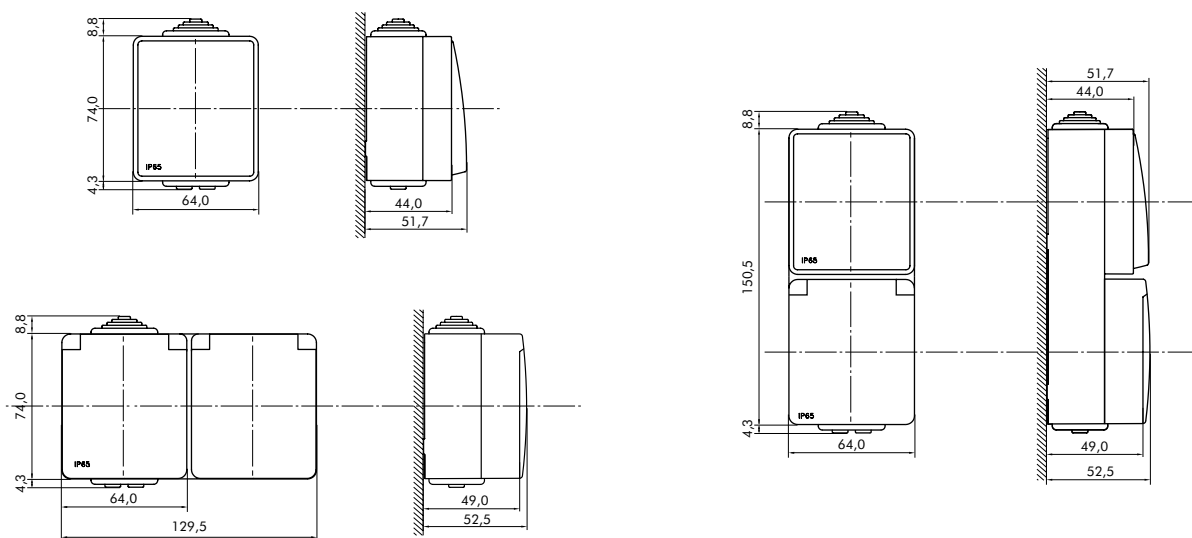
- Products in technical thermoplastic - resistant material, non-conductive.
- White (RAL 9003).
- Grey (RAL 7035).

CHARACTERISTICS

- **Mechanisms in technical thermoplastic - resistant material, non-conductive.**
- **High resistance against impacts and against elements (IK07 and IP65).**
- **Control Devices**
 - 16A - 250V~ - Connections with screw terminals. It allows the usage of rigid and flexible cable.
 - Pilot Light.
 - In accordance with EN 60669-1 Standard.
- **Energy Sockets**
 - Earth Socket (Schuko and French types):
 - 16A - 250V~.
 - Connections with screw terminals.
 - In accordance with IEC 60884-1; DIN VDE 0620-1 (Schuko) and NF C 61-314 (French) Standards.
 - Energy Sockets: Singles, Double Vertical and Horizontal.
- **Variety of Functions:** Control Devices, Electrical Blinds Control, Energy Sockets, etc...
- Possibility of double vertical combination (Ref. 48995 A) or horizontal combination (Ref. 48994 A) with resource of Double Bases.
- Adaptation of functions of **QUADRO 45** by using the 48 Series Box with Cover for QUADRO 45 Series (Ref. 48998 C).
- **Draining Holes:** All the products of the **Waterproof 48 Series** have two pre-drilled draining holes. Depending on the mounting position of the product, the draining hole pointing to the lower part of the base must be open.

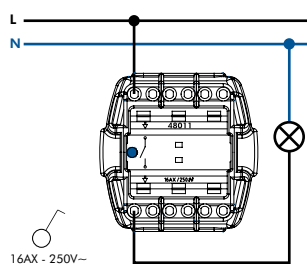


DIMENSIONS (mm)

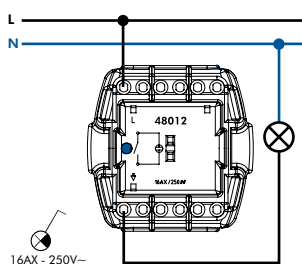


WATERPROOF 48 - WIRING DIAGRAMS

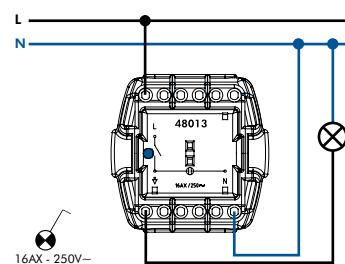
SINGLE POLE SWITCH



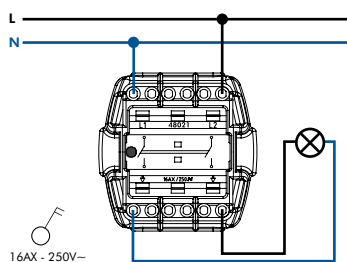
SINGLE POLE SWITCH WITH ORIENTING LIGHT



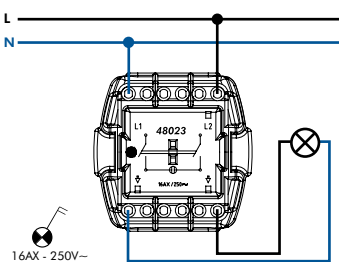
SINGLE POLE SWITCH WITH PILOT LAMP



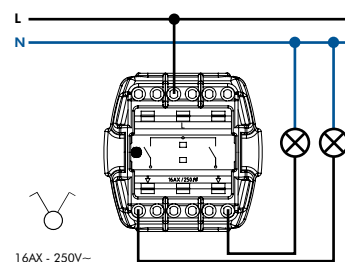
TWO-POLE SWITCH



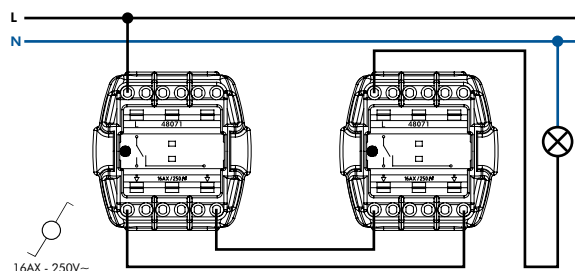
TWO-POLE SWITCH WITH PILOT LAMP



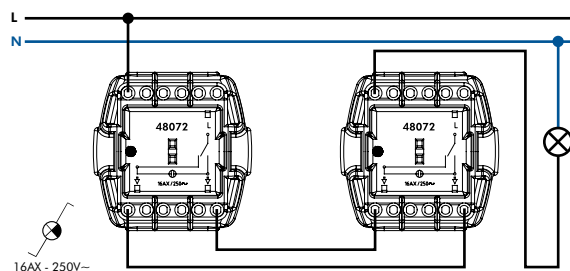
TWO CIRCUITS SWITCH



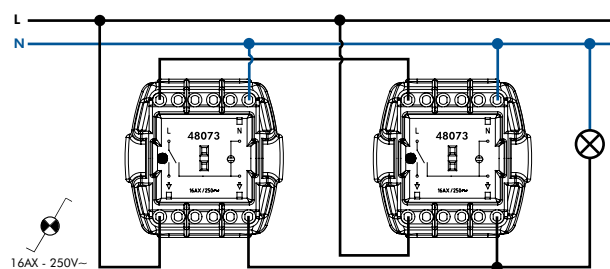
TWO-WAY SWITCH



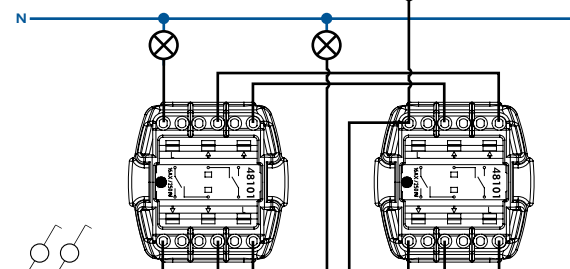
TWO-WAY SWITCH WITH ORIENTING LIGHT



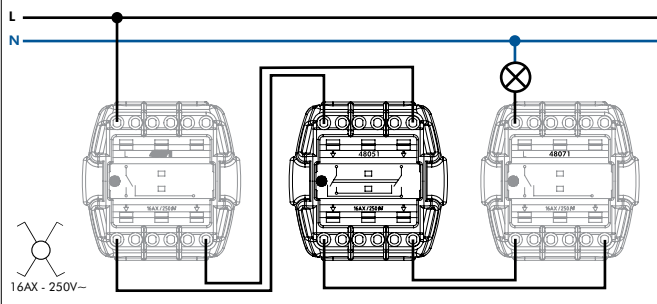
TWO-WAY SWITCH WITH PILOT LAMP



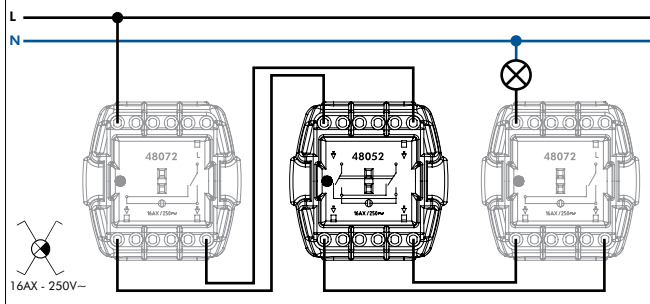
DOUBLE TWO-WAY SWITCH - 10A AND 20A



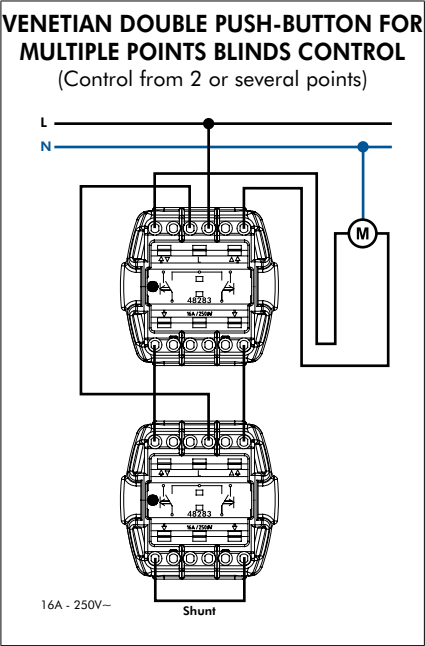
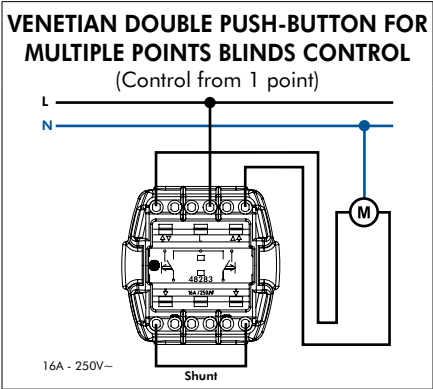
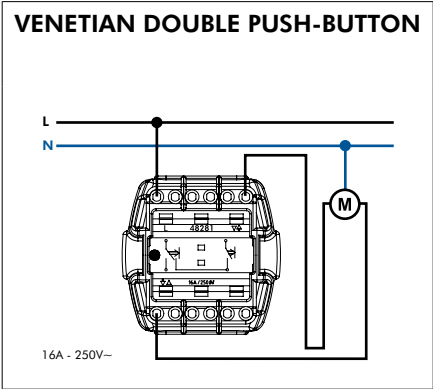
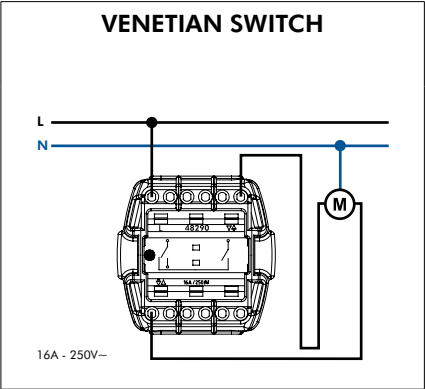
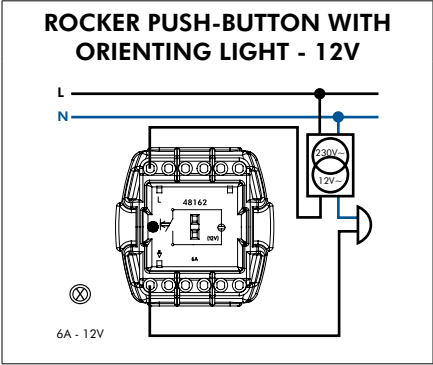
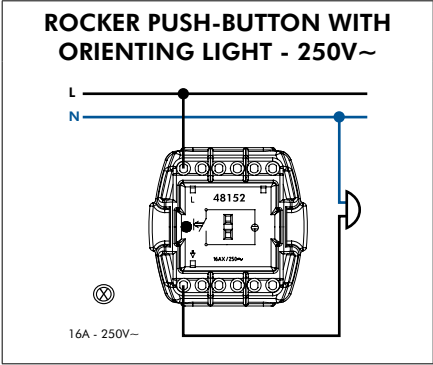
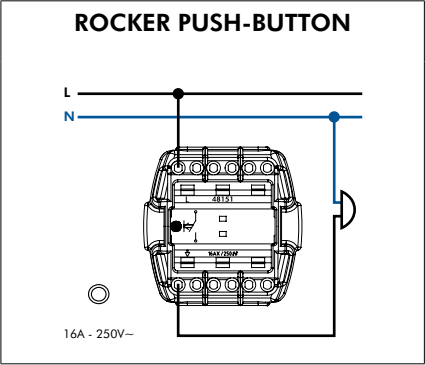
INTERMEDIATE SWITCH



INTERMEDIATE SWITCH WITH ORIENTING LIGHT



WATERPROOF 48 - WIRING DIAGRAMS



DESCRIPTION



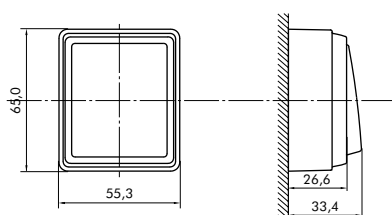
- Products in technical thermoplastic - resistant material, non-conductive.
- Available in White (RAL 9003), the same used in EFAPEL Cable Trunkings.
- Product sold in complete form.

CHARACTERISTICS

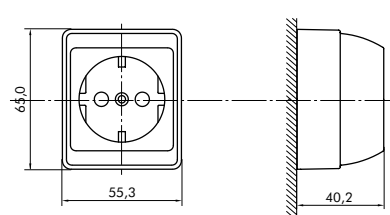
- Mechanisms in technical thermoplastic - resistant material, non-conductive.
- For installations in surface mounting applications and/or installations with Technical Cable Trunkings.
- Control Devices
 - 10A - 250V~ - connections with screw terminals. It allows the usage of rigid and flexible cable.
 - Pilot Light.
 - In accordance with EN 60669-1 Standard.
- Energy Sockets
 - Earth Socket (Schuko and French types):
 - 16A - 250V~.
 - Connections with screw terminals.
 - Available in colors White, Red and Orange.
 - In accordance with IEC 60884-1; DIN VDE 0620-1 (Schuko) and NF C 61-314 (French) Standards.
- **Variety of Functions:** Control Devices; Electrical Blinds Control; Energy Sockets; Radio, Television and Satellite Sockets; Telephone Sockets; Data Sockets; etc...
- Adaptable to all 10 Series Cable Trunkings - Mini Cable and Skirt using the lateral adapter for each of the cable trunkings.

DIMENSIONS (mm)

SWITCH



ENERGY SOCKETS



DESCRIPTION



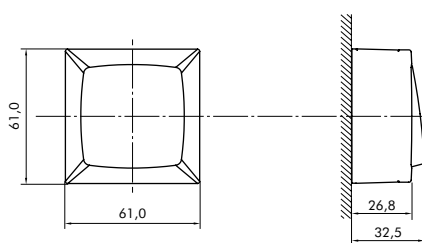
- Products in technical thermoplastic - resistant material, non-conductive.
- Available in White (RAL 9003), the same used in EFAPEL Cable Trunkings.
- Product sold in semi-assembled form.

CHARACTERISTICS

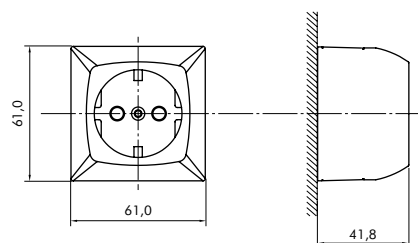
- Mechanisms in technical thermoplastic - resistant material, non-conductive.
- For installations in surface mounting applications and/or installations with Technical Cable Trunkings.
- Control Devices
 - 10A - 250V~ - connections with screw terminals. It allows the usage of rigid and flexible cable.
 - Pilot Light.
 - In accordance with EN 60669-1 Standard.
- Energy Sockets
 - Earth Socket (Schuko and French types):
 - 16A - 250V~.
 - Connections with screw terminals.
 - Available in colors White, Red and Orange.
 - In accordance with IEC 60884-1; DIN VDE 0620-1 (Schuko) and NF C 61-314 (French) Standards.
- **Variety of Functions:** Control Devices; Electrical Blinds Control; Energy Sockets; Radio, Television and Satellite Sockets; Telephone Sockets; Data Sockets; etc...
- Adaptable to all 10 Series Cable Trunkings - Mini Cable using the lateral adapter for each of the cable trunkings.

DIMENSIONS (mm)

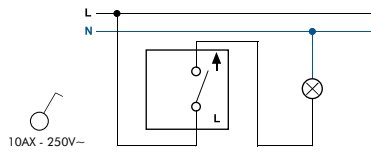
SWITCH WITH BOX



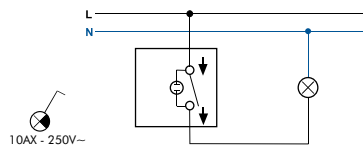
ENERGY SOCKETS WITH BOX



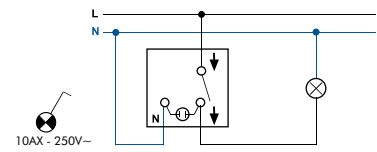
SINGLE POLE SWITCH



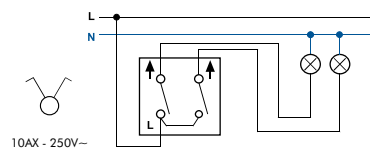
SINGLE POLE SWITCH WITH ORIENTING LIGHT



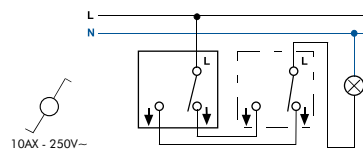
SINGLE POLE SWITCH WITH PILOT LAMP



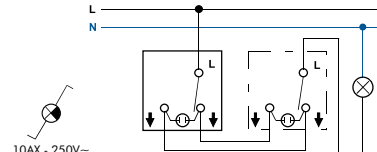
TWO CIRCUITS SWITCH



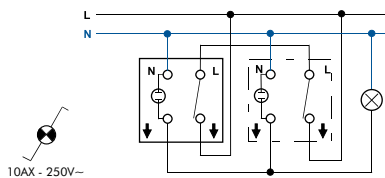
TWO-WAY SWITCH



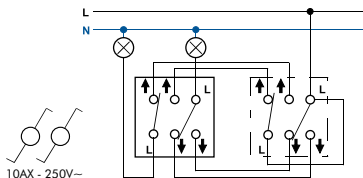
TWO-WAY SWITCH WITH ORIENTING LIGHT



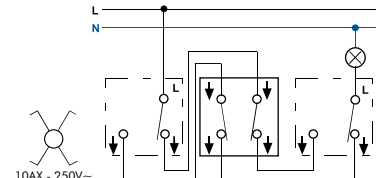
TWO-WAY SWITCH WITH PILOT LAMP



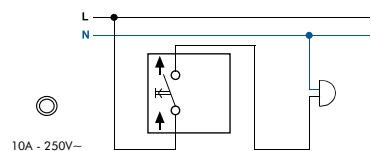
DOUBLE TWO-WAY SWITCH



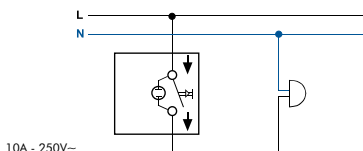
INTERMEDIATE SWITCH



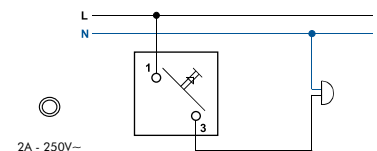
ROCKER PUSH-BUTTON



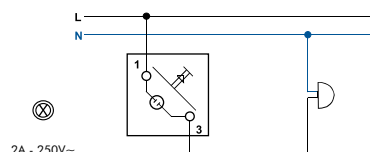
ROCKER PUSH-BUTTON WITH ORIENTING LIGHT



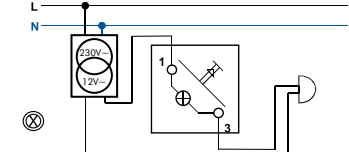
PUSH-BUTTON SWITCH



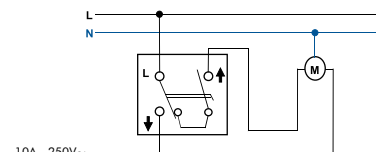
ROCKER PUSH-BUTTON WITH ORIENTING LIGHT - 250V~



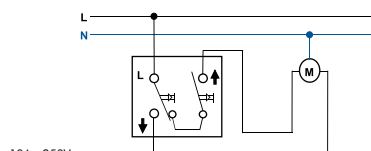
ROCKER PUSH-BUTTON WITH ORIENTING LIGHT - 12V



VENETIAN SWITCH



VENETIAN DOUBLE PUSH-BUTTON



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)
	MALE	R TV	RETURN	BI	FM	VHF	UHF	DIG. TV	SAT					
REF.	FEMALE	SAT	4-47 MHz	47-68 MHz	87-108 MHz	118-470 MHz	470-822 MHz	822-862 MHz	950-2150 MHz	2150-2400 MHz				
STAR CONNECTION 37550 47550	IEC MALE		1	1	1	1	2	3	--	--	--	--	--	--
	IEC FEMALE		--	--	--	--	--	--	6	6	--	--	--	500mA

■ R - TV SOCKETS (IMPEDANCE OF 75 OHM)

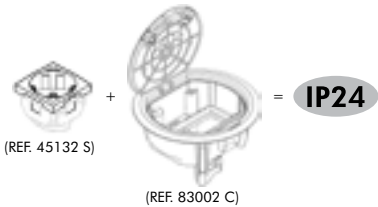
EQUALIZED	OUTPUTS		DERIVATION LOSSES (dB)								INSERTION LOSSES dB	INSULATION BETWEEN OUTPUTS dB	RETURN LOSSES dB	DC CURRENT PASSAGE mA (DC)
	MALE	R TV	RETURN	BI	FM	VHF	UHF	DIG. TV	SAT					
REF.	FEMALE	SAT	4-47 MHz	47-68 MHz	87-108 MHz	118-470 MHz	470-822 MHz	822-862 MHz	950-2150 MHz	2150-2400 MHz				
STAR CONNECTION/ TERMINAL 37531 47531	IEC MALE		0,5	0,5	--	0,5	0,5	0,5	--	--	--	--	--	--
	IEC FEMALE		--	--	1	--	--	--	--	--	--	--	--	--
PASSAGE 37532 47532	IEC MALE		6,0	6,0	--	6,0	6,0	6,0	--	--	2,0	--	--	--
	IEC FEMALE		--	--	6,0	--	--	--	--	--	2,0	--	--	--

FLOOR BOX - 4 MODULES (REF. 83002 C)

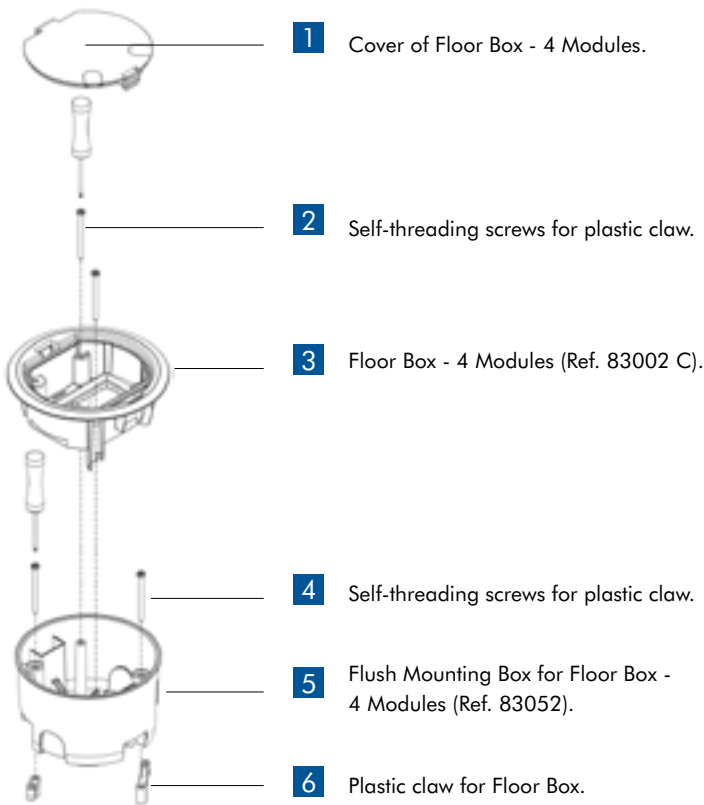
DESCRIPTION



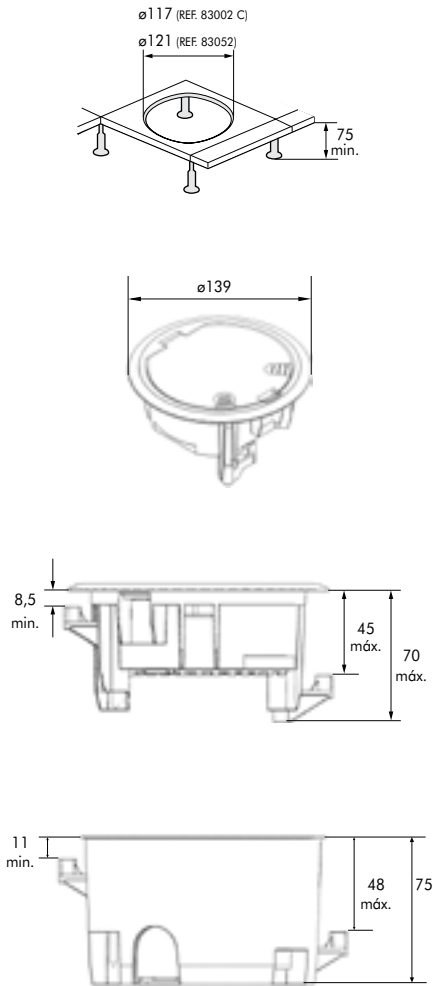
- Floor box for mounting in concrete through Flush Mounting Boxes (Ref. 83052) and in technical floor through claws.
- Available in colors **CZ** - Grey and **AT** - Anthracite.
- To be used with semi-assembled devices of **QUADRO 45** Series.



MOUNTING DIAGRAM



DIMENSIONS (mm)



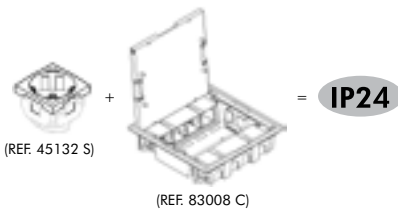
FLOOR BOX - 16 MODULES (REF. 83008 C)

DESCRIPTION

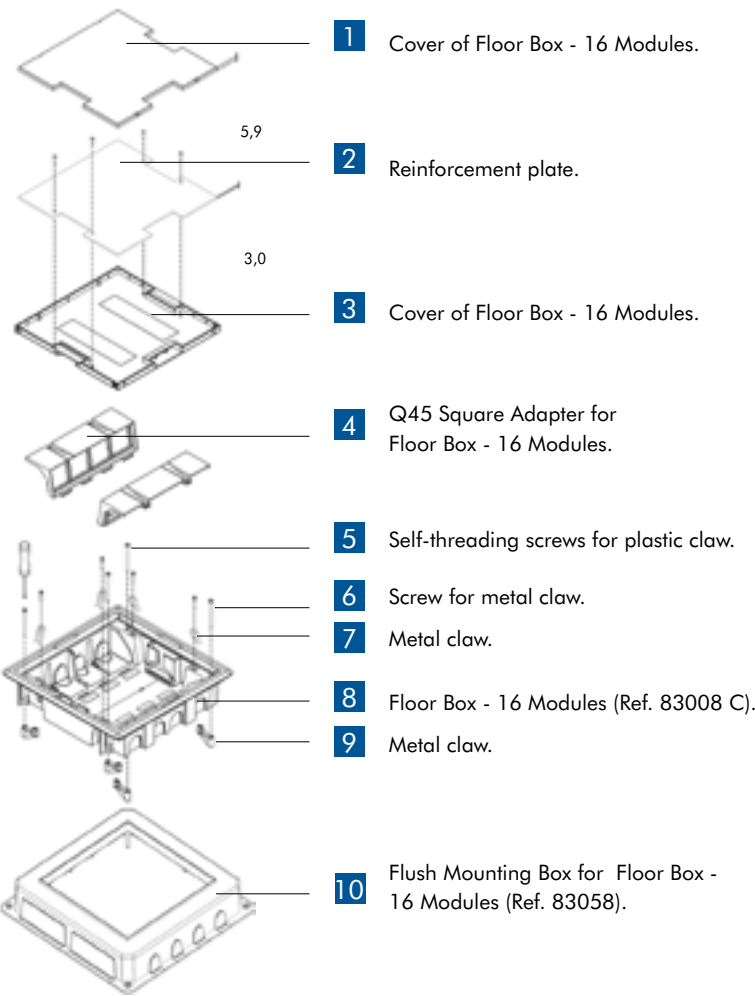


IK10

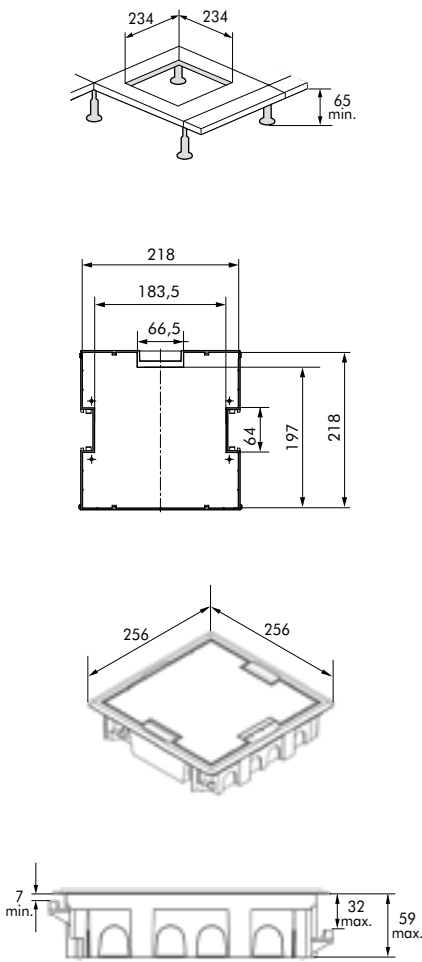
- Floor box for mounting in concrete through Flush Mounting Boxes (Ref. 83058) and in technical floor through claws.
- To be used with semi-assembled devices of **QUADRO 45** Series.
- Available in colors **CZ** - Grey and **AT** - Anthracite.
- Available with Inox Cover in colors **ZI** - Grey Inox and **AI** - Anthracite Inox.



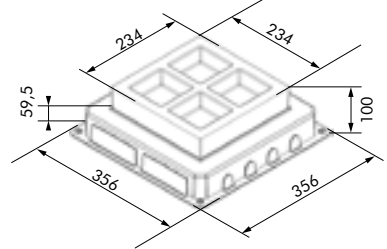
MOUNTING DIAGRAM (CZ, AT)



DIMENSIONS (mm)



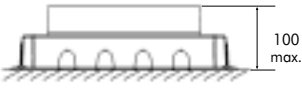
MOUNTING IN CONCRETE



MINIMUM FLOOR HEIGHT



MAXIMUM FLOOR HEIGHT



CLASSIFICATION - EN 60670-1; EN 60670-23 STANDARDS

SECTION 7	CLASSIFICATION	FLOOR BOX - 4 AND 16 MODULES
7.1	Nature of the material	Insulating
7.2	Type of installation	Embedded, semi-embedded or integrated into walls, ceilings or combustible floorings
		Embedded, semi-embedded or integrated into holes or partitions (false ceilings, walls, floorings), furniture
		For tunnel type installation during the concrete projection step (7.6)
		Treatment of flooring: within boxes and jackets for installation in floorings submitted to dry treatment
7.3	Types of inlets (outlets)	With inlets for plain or corrugated pipes
7.4	Means for fixing cables and pipes	Without fixing
7.5	Minimum and maximum temperatures during the installation	-25°C to +60°C
7.6	Maximum temperature during the concrete filling step	90°C
7.8	Means for fixing the devices to the boxes	Boxes designed to enable other means of fixing
7.101	Type of movable cover	Jacket with movable cover removable

TESTS - EN 50085-1; EN 50085-2-2 STANDARDS

SECTION 10	CLASSIFICATION	FLOOR BOX - 4 MODULES	FLOOR BOX - 16 MODULES
10.3.2	Impact test to mechanical resistance for installation and application	2J	5J
10.3.2	EN 50102 IK Test	IK08	IK10
10.5.1	IEC 60884-1 – NP 1260 Fixation of Low Voltage Devices - Test of Resistance to Extraction	Declared Extraction Force: 90N 1,5x90 = 135N	
10.5.103	Resistance to the vertical load applied within a small surface area	750N	
10.5.104	Resistance to the vertical load applied within a large surface area	3000N	

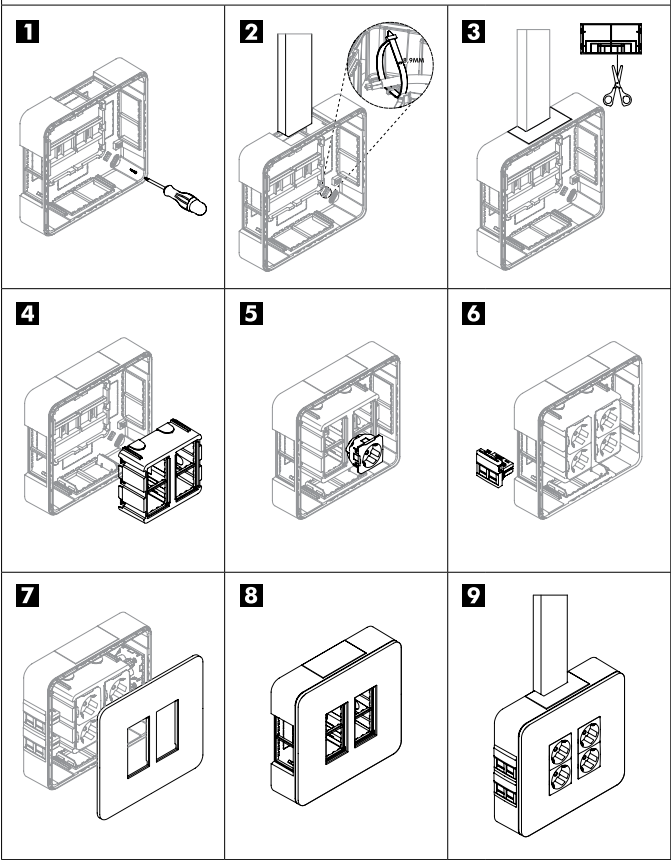
WORKSTATION SURFACE MOUNTING 2X4 + 4X4 MODULES (REF. 83410 S)

DESCRIPTION

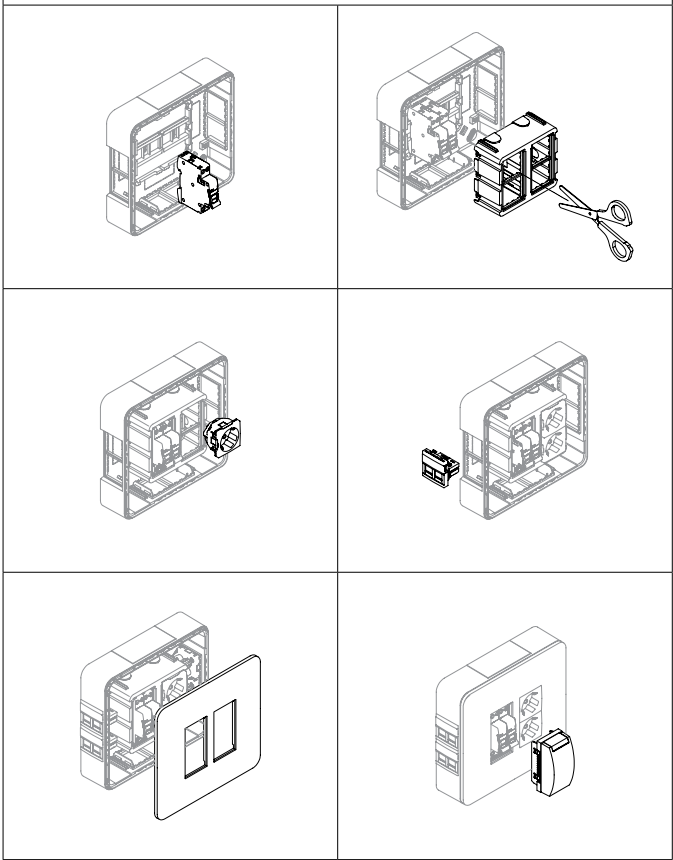


- Workstation for surface mounting installation in masonry.
- To be used with semi-assembled devices of **QUADRO 45** Series.
- Available in color **BR** - White.

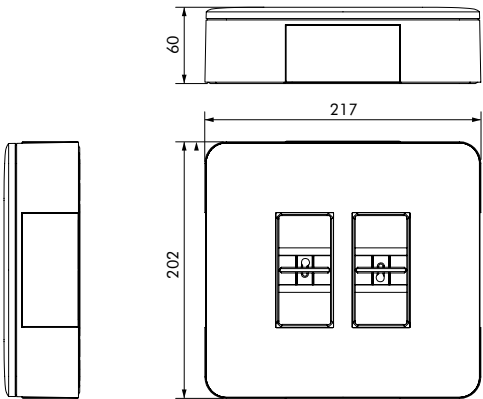
INSTALLATION



MOUNTING DIAGRAM



DIMENSIONS (mm)



SECTION 7	CLASSIFICATION	WORKSTATION SURFACE MOUNTING
7.1	Nature of the material	Insulating
7.2	Type of installation	Surface mounted on: - walls, ceilings or furniture, non-combustible; - walls, ceilings or furniture, combustible
7.3	Type of inlets (outlets)	No entries. Inlet openings are performed during installation
7.4	Means for fixing cables and pipes	With cable retention
7.5	Minimum and maximum temperatures during the installation	-5°C to +60°C
7.8	Means for fixing the devices to the boxes	Boxes designed to allow other means of fixing
7.102	Enclosure	PD Enclosure (for predetermined equipment)
	Degree of protection of the enclosure: IP3XC IK Test: IK07	
	The maximum permissible load inside the enclosure is 1.4 Kg (The maximum load was verified by the maximum weight of the MCB applied and with an increase of 1.5)	
	Rated Voltage - 250V~ Rated Current - 63A	
	Maximum Capacity to Dissipate Power (Pde) - 40W	

INFORMATIONS

ANNEX BB	CLASSIFICATION	WORKSTATION SURFACE MOUNTING
BB3	Devices to be Integrated by the Installer	The devices integrated in the enclosure by the installer shall comply with their applicable product standards, (e.g. 1 MCB shall comply with IEC 60898-1, 1 RCCB shall comply with IEC 61008-1 and 1 RCBO shall comply with IEC 61009-1). The sockets shall comply with IEC 60884-1 and have safety shutters (Ref. 45132 S, 45112 S). Compatible with devices 45x45 - QUADRO45.
BB5	Connections	Terminals must be used in accordance with the standards EN 60998-2-1.
BB6	Protection Against Electric Shock	Active parts shall remain not accessible after devices are installed in the enclosure. Devices mounted in the enclosure shall have a minimum IP degree of IP2X
BB8	Wiring	The installation must ensure that the internal wiring shall be such that minimum creepage distances between live parts and metallic accessible or non-accessible parts are not lower than 3mm. The cross-sections of conductors shall be in accordance with the wiring rules

IEC 60884-1 NP 1260

SECTION 9	CLASSIFICATION	WORKSTATION SURFACE MOUNTING
9.4	Fixing of low voltage devices	90Nx1,5=135N

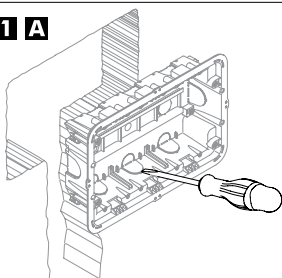
DESCRIPTION



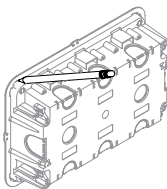
- Workstation to be installed in masonry or in hollow walls by using claws.
- To be used with semi-assembled devices **QUADRO 45** Series.
- Available in color **BR** - White.

INSTALLATION

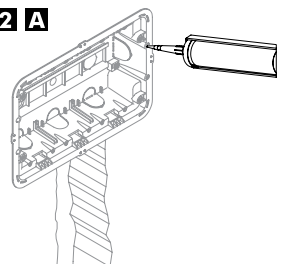
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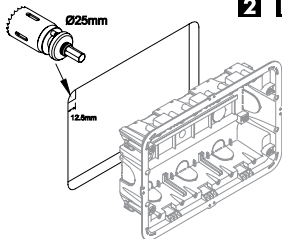
1 B



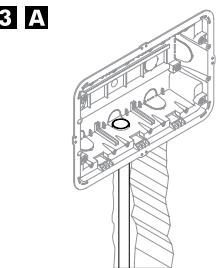
2 A



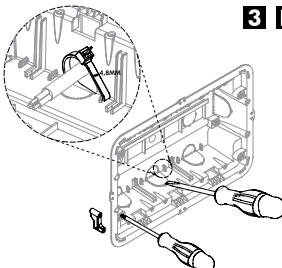
2 B



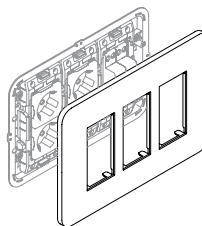
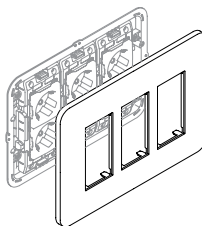
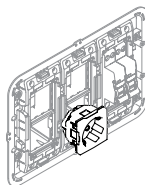
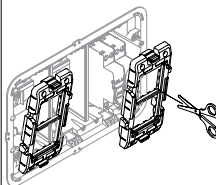
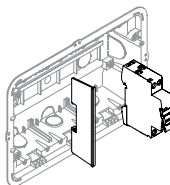
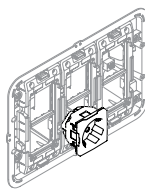
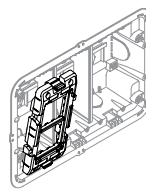
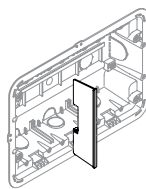
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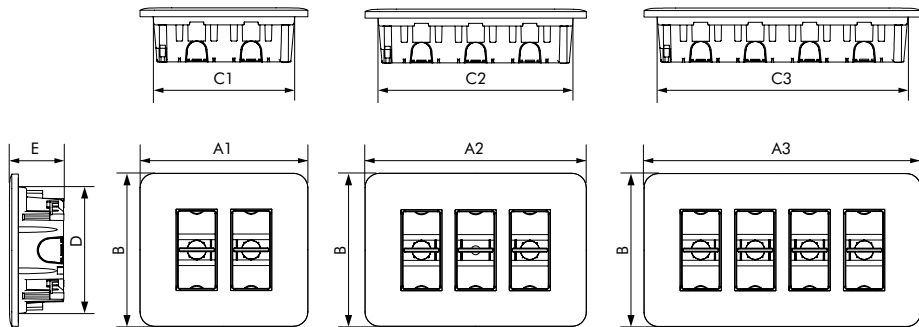
3 B



MOUNTING DIAGRAM



DIMENSIONS (mm)



A1 (mm)	A2 (mm)	A3 (mm)	B (mm)	C1 (mm)	C2 (mm)	C3 (mm)	D (mm)	E (mm)
185	245	305	170	157	217	277	142	50

SECTION 7	CLASSIFICATION	WORKSTATION FLUSH MOUNTING
7.1	Nature of the material	Insulating
7.2	Type of installation	Embedded, semi-embedded or integrated: walls or ceilings, non-combustible; walls or ceilings, combustible; hollow or partitions (false ceilings, walls), furniture.
7.3	Types of inlets (outlets)	With inlets for plain or corrugated pipes
7.4	Means for fixing cables and pipes	With cables retention
7.5	Minimum and maximum temperatures during the installation	-5°C to +60°C
7.7	Boxes or enclosures for hollow or partitions, classified according to 7.2.1.3	Degree of protection of the enclosure: IP3XC
7.8	Means for fixing the devices to the boxes	Boxes designed to allow other means of fixing
7.102	Enclosure	PD Enclosure (for predetermined equipment)
	Resistance of the recessed housing part enclosure embedded area (back case box) to the glow wire test at 850°	
	IK Test - IK07	
	The maximum permissible load inside the enclosure 2x4 is 1.4 Kg (The maximum load was verified by the maximum weight of the MCB applied and with an increase of 1.5)	
	The maximum permissible load inside the enclosure 3x4 is 2.1 Kg (The maximum load was verified by the maximum weight of the MCB applied and with an increase of 1.5)	
	The maximum permissible load inside the enclosure 4x4 is 2.8 Kg (The maximum load was verified by the maximum weight of the MCB applied and with an increase of 1.5)	
	Rated Voltage - 250V~ Rated Current - 63A	
	Maximum Capacity to Dissipate Power (Pde) - 40W	

INFORMATION

ANNEX BB	CLASSIFICATION	WORKSTATION FLUSH MOUNTING
BB3	Devices to be Integrated by the Installer	The devices integrated in the enclosure by the installer shall comply with their applicable product standards, (e.g. 1 MCB shall comply with IEC 60898-1, 1 RCCB shall comply with IEC 61008-1 and 1 RCBO shall comply with IEC 61009-1). The sockets shall comply with IEC 60884-1 and have safety shutters (Ref. 45132 S, 45112 S). Compatible with devices 45x45 - QUADRO45.
BB5	Connections	Terminals must be used in accordance with the standards EN 60998-2-1.
BB6	Protection Against Electric Shock	Active parts shall remain not accessible after devices are installed in the enclosure. Devices mounted in the enclosure shall have a minimum IP degree of IP2X
BB8	Wiring	The installation must ensure that the internal wiring shall be such that minimum creepage distances between live parts and metallic accessible or non-accessible parts are not lower than 3mm. The cross-sections of conductors shall be in accordance with the wiring rules

EN 50085-1

SECTION 9	CLASSIFICATION	WORKSTATION FLUSH MOUNTING
9.4	Mechanical connections by screws	0,8Nm

IEC 60884-1 NP 1260

SECTION 9	CLASSIFICATION	WORKSTATION FLUSH MOUNTING
9.4	Fixing of low voltage devices	90Nx1,5=135N

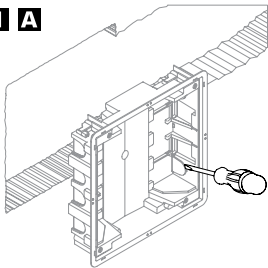
DESCRIPTION



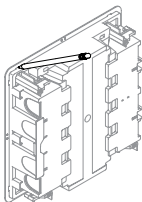
- Workstation to be installed in masonry or in hollow walls by using claws.
- To be used with semi-assembled devices **QUADRO 45** Series.
- Available in color **BR** - White.

INSTALLATION

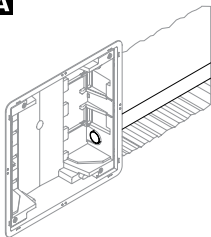
1 A



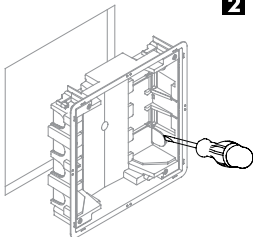
1 B



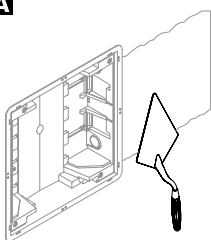
2 A



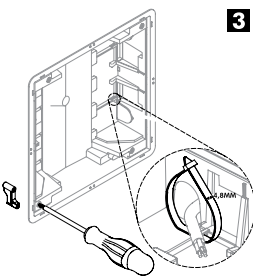
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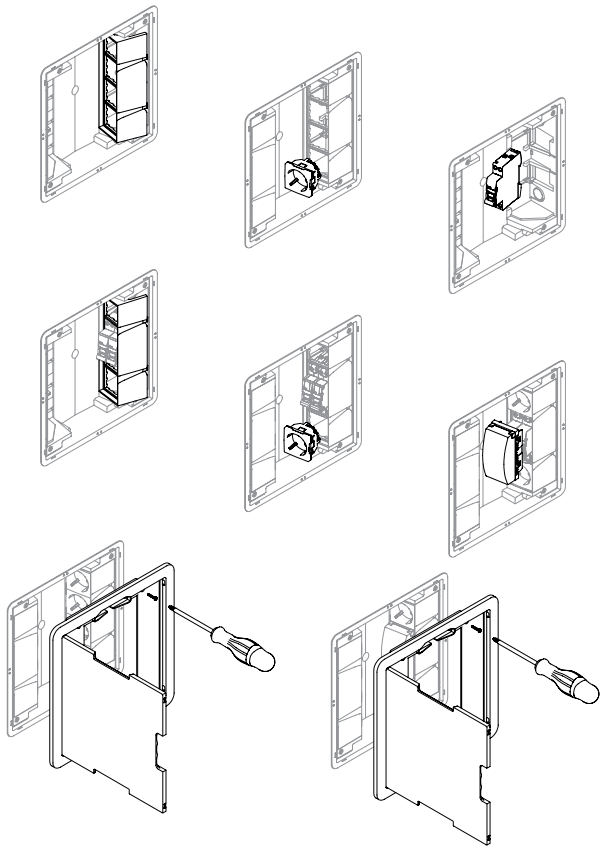
3 A



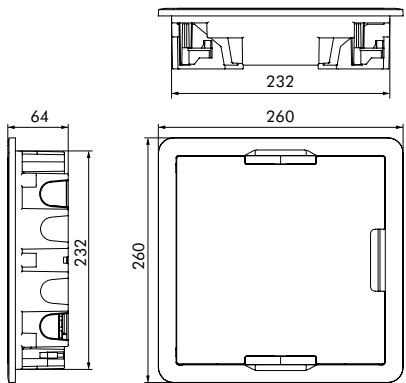
3 B



MOUNTING DIAGRAM



DIMENSIONS (mm)



SECTION 7	CLASSIFICATION	WORKSTATION FLUSH MOUNTING WITH DOOR
7.1	Nature of the material	Insulating
7.2	Type of installation	Embedded, semi-embedded or integrated: walls or ceilings, non-combustible; walls or ceilings, combustible; hollow or partitions (false ceilings, walls), furniture.
7.3	Types of inlets (outlets)	With inlets for plain or corrugated pipes
7.4	Means for fixing cables and pipes	With cable retention
7.5	Minimum and maximum temperatures during the installation	-5°C to +60°C
7.7	Boxes or enclosures for hollow or partitions, classified according to 7.2.1.3	Degree of protection of the enclosure: IP3XC
7.8	Means for fixing the devices to the boxes	Boxes designed to allow other means of fixing
7.102	Enclosure	PD Enclosure (for predetermined equipment)
	Resistance of the recessed housing part enclosure embedded area (back case box) to the glow wire test at 850°	
	IK Test - IK07	
	The maximum permissible load inside the enclosure is 1.4 Kg (The maximum load was verified by the maximum weight of the MCB applied and with an increase of 1.5)	
	Rated Voltage - 250V~ Rated Current - 63A	
	Maximum Capacity to Dissipate Power (Pde) - 40W	

INFORMATION

ANNEX BB	CLASSIFICATION	WORKSTATION FLUSH MOUNTING WITH DOOR
BB3	Devices to be Integrated by the Installer	The devices integrated in the enclosure by the installer shall comply with their applicable product standards, (e.g. 1 MCB shall comply with IEC 60898-1, 1 RCCB shall comply with IEC 61008-1 and 1 RCBO shall comply with IEC 61009-1). The sockets shall comply with IEC 60884-1 and have safety shutters (Ref. 45132 S, 45112 S). Compatible with devices 45x45 - QUADRO45.
BB5	Connections	Terminals must be used in accordance with the standards EN 60998-2-1.
BB6	Protection Against Electric Shock	Active parts shall remain not accessible after devices are installed in the enclosure. Devices mounted in the enclosure shall have a minimum IP degree of IP2X
BB8	Wiring	The installation must ensure that the internal wiring shall be such that minimum creepage distances between live parts and metallic accessible or non-accessible parts are not lower than 3mm. The cross-sections of conductors shall be in accordance with the wiring rules

EN 50085-1

SECTION 9	CLASSIFICATION	WORKSTATION FLUSH MOUNTING WITH DOOR
9.4	Mechanical connections by screws	0,8Nm

IEC 60884-1 NP 1260

SECTION 9	CLASSIFICATION	WORKSTATION FLUSH MOUNTING WITH DOOR
9.4	Fixing of low voltage devices	90Nx1,5=135N

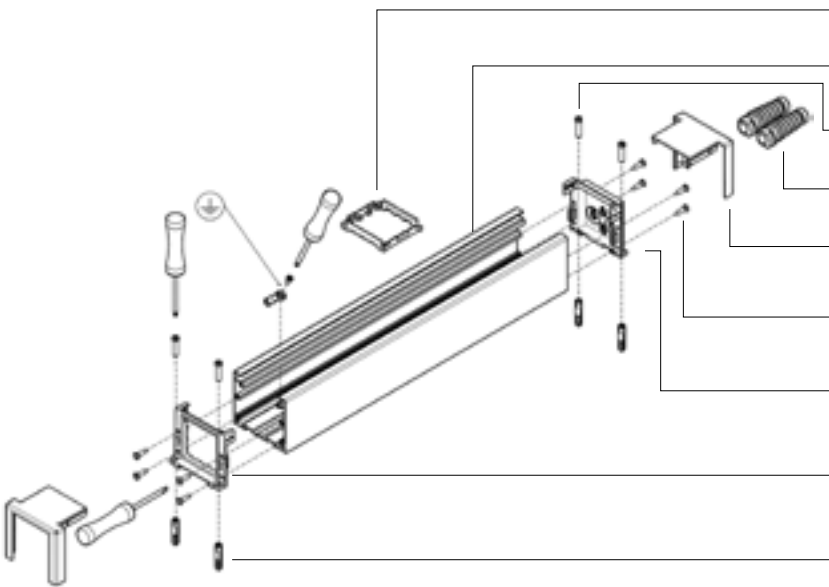
DESCRIPTION



IK09

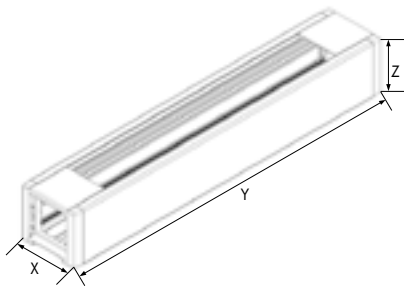
- They can be installed on a desk, wall, DIN rail or elsewhere.
- To be used with semi-assembled devices **QUADRO 45** Series.

MOUNTING DIAGRAM



- 1 90° Positioner.
- 2 Desktop Workstation Profile.
- 3 Fixing screws to fasten the Desktop Workstations tops to the floor.
- 4 Cable Glands
- 5 Frame of the Desktop Workstation Tops.
- 6 Fixing screws to fasten the tops to the Desktop Workstation.
- 7 Desktop Workstation Top.
- 8 Desktop Workstation Top - fixing for Q45 devices.
- 9 Plastic fittings.

DIMENSIONS (mm)

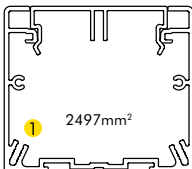
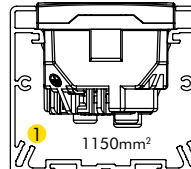
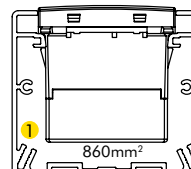


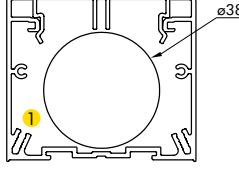
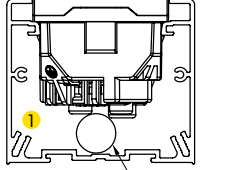
	X	Y	Z
REF. 83201 S	62,0	269,5	54,5
REF. 83202 S	62,0	360,5	54,5

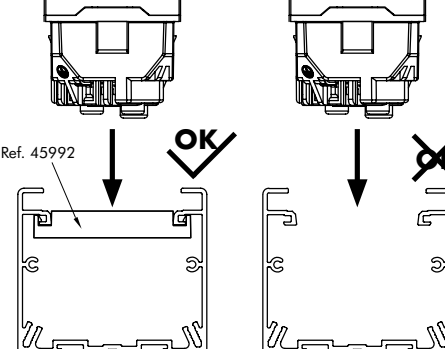
SECTION 6	CLASSIFICATION	DESKTOPS WORKSTATIONS
6.2	Resistance to impact for installation and application	10 J
6.3	Minimum Storage and Transport Temperature	- 45 °C
6.3	Minimum Installation and Application Temperature	- 25 °C
6.3	Maximum Application Temperature	60 °C
6.4	Resistance to flame propagation	Non-flame propagating
6.5	Electrical continuity characteristic	With electrical continuity $1,5 \times 10^{-4} \Omega/m$
6.6	Electrical insulation	Without electrical insulation
6.7	Protection degree provided by enclosure	IP30
6.8	Protection against corrosive or polluting substances	Medium protection outside and inside
6.9	Access system to the retention of the cover	The cover can only be removed with a tool
6.10	Electrically protective separation	Without electrical protective partition (divider)
6.101	Conditions d'installation	Surface mounted fixed on the wall or on the ceiling
6.102	Prevention of contact between liquids and insulated conductors and live parts in case of mounted in a skirting and on wet floor.	Not declared
6.103	Type	3 (installation)
	Rated Voltage	500V~

DESKTOPS WORKSTATIONS (PROFILE SELECTION)

Ref.	Profile Characteristics			Isolated Cables Capacity				
	Section	Internal Section (S)	Available Section (Su)	Max ø Available	Max. Nr. Conductors H07 V-U			
		(mm ²)	(S:1,4) (mm ²)	(mm)	1,5mm ²	2,5mm ²	4mm ²	6mm ²
Profile and Desktop Workstations 83241 83242 83281	1 2	2497	1784	38	223	149	119	89
Profile and Desktop Workstations with Sockets Q45 83241 83242 83281 + 45132 S	1 2	1150	821	13	103	68	55	41
Profile and Desktop Workstation with power supply 83241 83242 83281 + 45380 S	1 2	860	614	—	77	51	41	31

SECTION
 2497mm ² 83232 83201 S 83202 S
 1150mm ² 83232 83201 S 83202 S + 45132 S
 860mm ² 83232 83201 S 83202 S + 45380 S

MAXIMUM DIAMETER AVAILABLE (mm)
 ø38 1
 ø13 1

MOUNTING DIAGRAM
 Ref. 45992 OK X

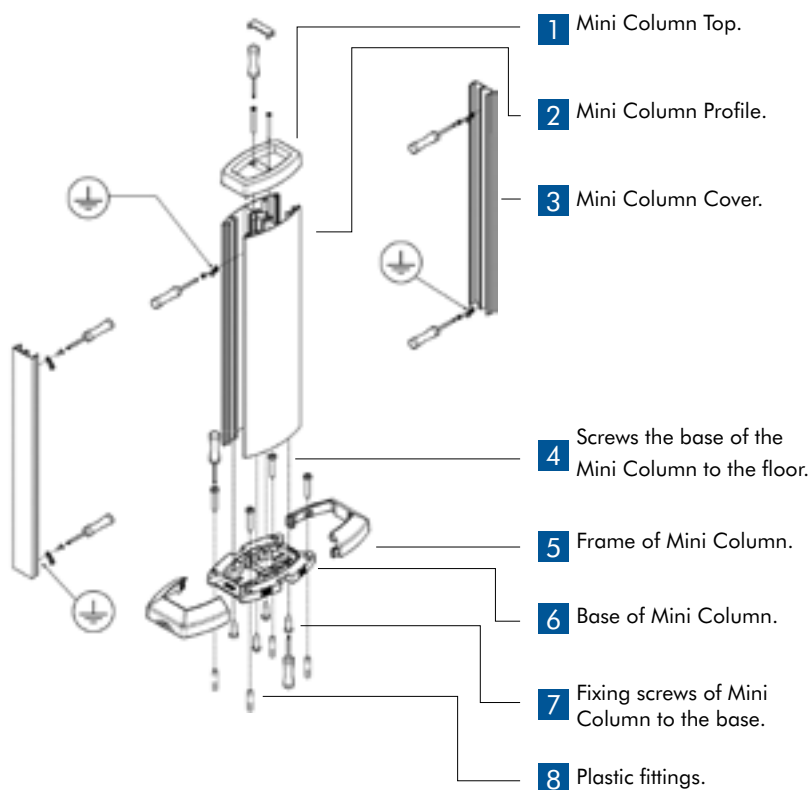
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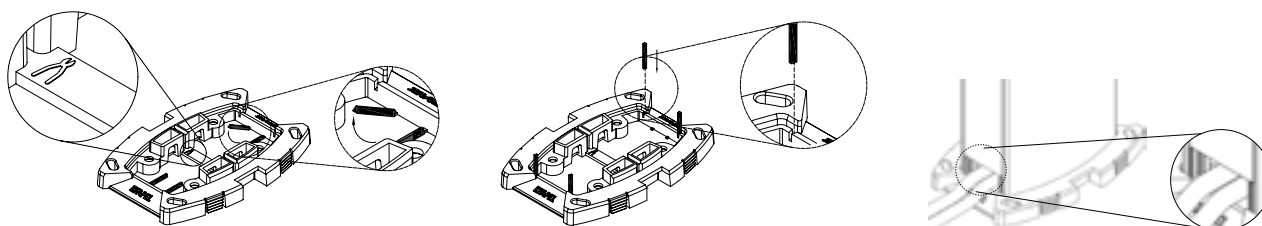
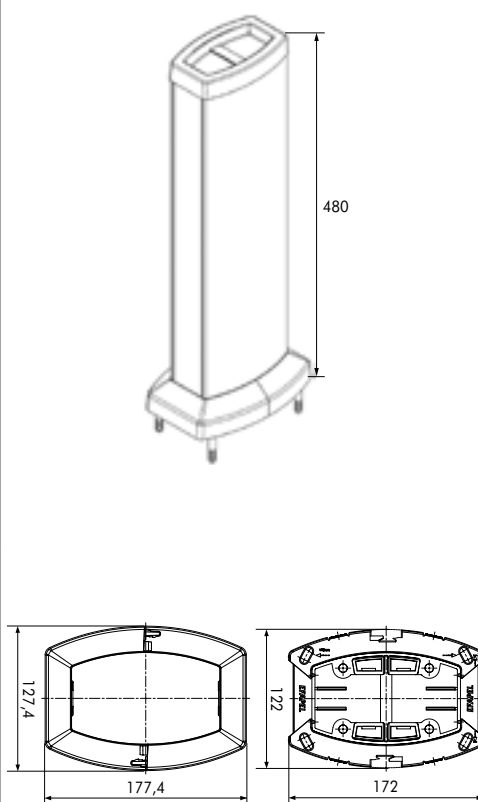
IK09

- Allows to put all the connections (power and communication) nearby the Workstation.
- To be used with semi-assembled devices **QUADRO 45** Series.

MOUNTING DIAGRAM



DIMENSIONS (mm)

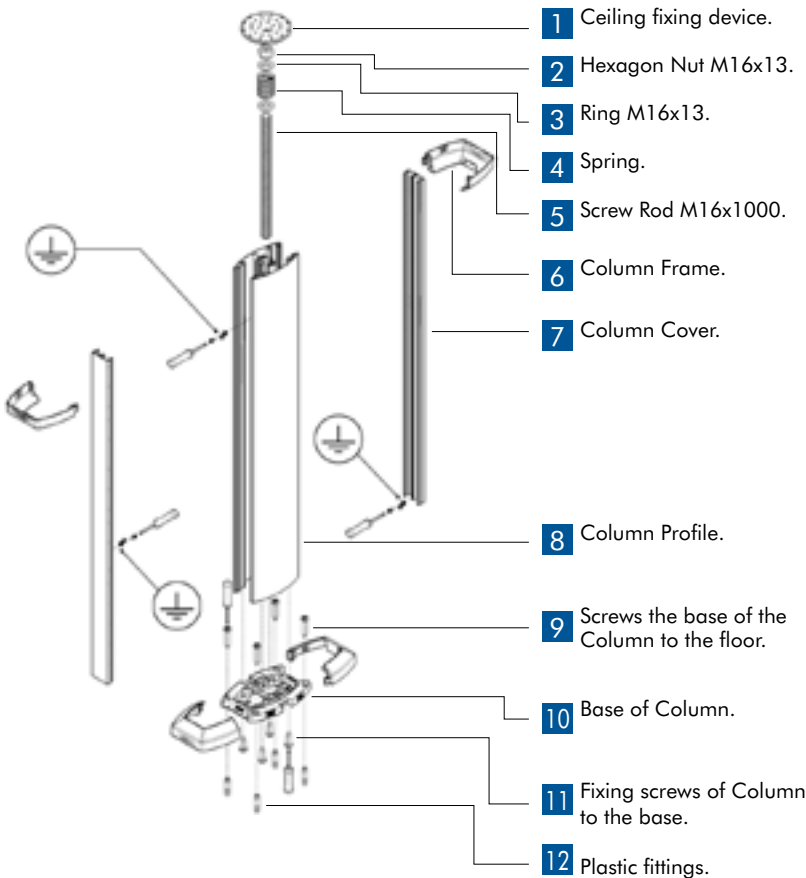


DESCRIPTION

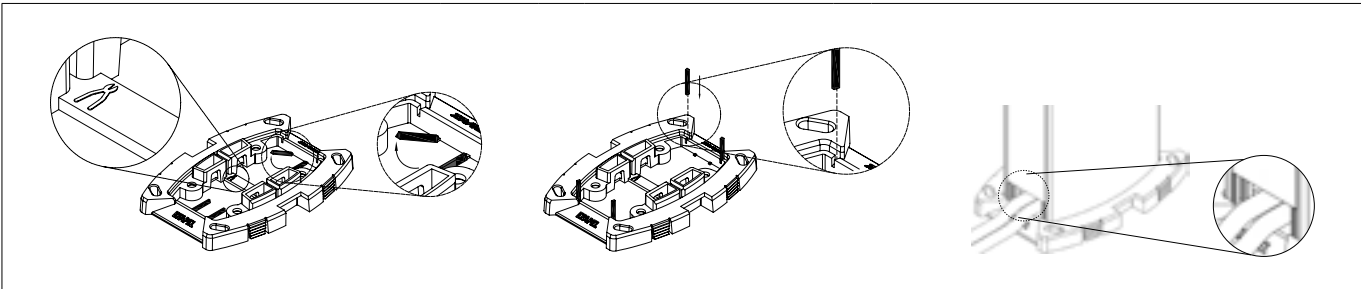
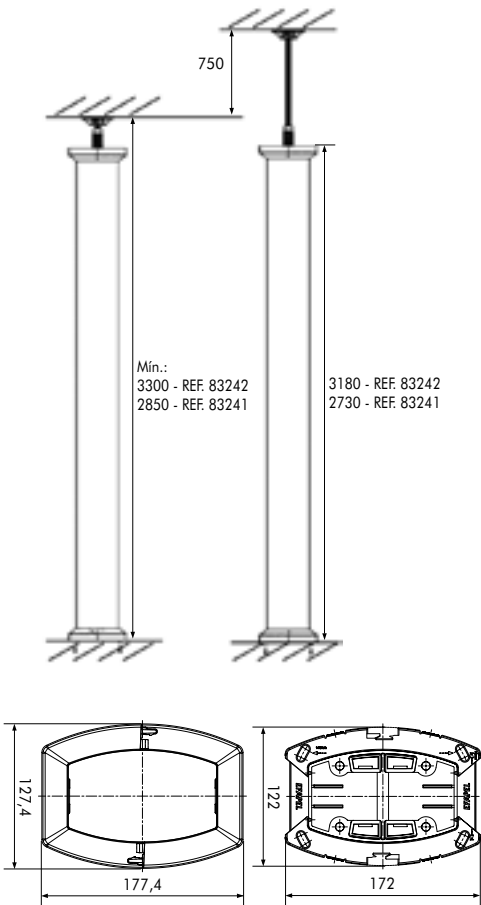


- They allow the power and cable routing between the ceiling and the floor.
- To be used with semi-assembled devices **QUADRO 45** Series.

MOUNTING DIAGRAM



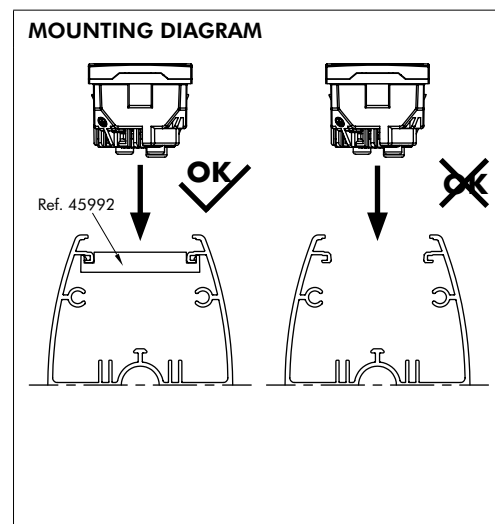
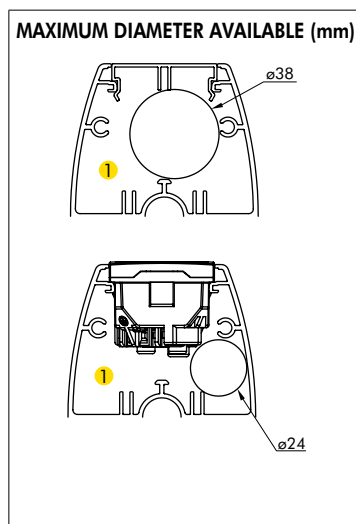
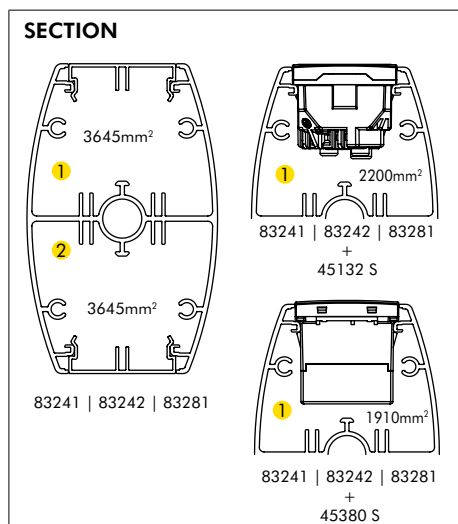
DIMENSIONS (mm)



SECTION 6	CLASSIFICATION	COLUMNS AND MINI COLUMN
6.2	Mechanical strength shock test for installation and application	10 J
6.3	Minimum Storage and transport Temperature	- 45 °C
6.3	Minimum Installation and Application Temperature	- 25 °C
6.3	Maximum Application Temperature	60 °C
6.4	Resistance to flame propagation	Non-flame propagating
6.5	Electrical continuity characteristic	With electrical continuity $5 \times 10^{-5} \Omega/m$
6.6	Electrical insulation	Without electrical insulation
6.7	Protection degree provided by enclosure	IP31
6.8	Protection against corrosive or polluting substances	Medium protection outside and inside
6.9	Access system to the retention of the cover	The cover can only be removed with a tool
6.10	Electrically protective separation	Without electrical protective partition (divider)
6.101	Type of floor	Dry floor
6.102	1000 N	
6.103	5000 N	
	Rated Voltage	500V~

COLUMNS | MINI COLUMN (PROFILE SELECTION)

Ref.	Profile Characteristics			Isolated Cables Capacity				
	Section	Internal Section (S)	Available Section (Su)	Max ø Available	Max. Nr. Conductors H07 V-U			
		(mm ²)	(S:1,4) (mm ²)	(mm)	1,5mm ²	2,5mm ²	4mm ²	6mm ²
Columns and Mini Column 83241 83242 83281	1	3645	2604	38	325	217	174	130
	2			—	196	131	105	79
Columns and Mini Column with Sockets Q45 83241 83242 83281 + 45132 S	1	2200	1571	—	196	131	105	79
	2			—	171	114	91	68
Columns and Mini Column with Power Supply Module 83241 83242 83281 + 45380 S	1	1910	1364	—	171	114	91	68
	2			—	171	114	91	68



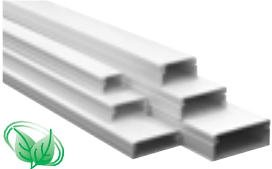
10 SERIES HALOGEN FREE - MINI CABLE (SELECTION GUIDE)

RoHS

IP44

IK07

Ref.



TRUNKINGS

20x12,5	10030 HBR	
32x12,5	10400 HBR	
32x12,5	10410 HBR	
32x16	10040 HBR	
40x12,5	10050 HBR	
40x16	10060 HBR	
50x20	10500 HBR	

Trunkings Characteristics				Isolated Cables Capacity				
Internal Dim.	Length	Internal Section (S)	Available Section (Su)	ø Max. Available	Max. Nr. Conductors H07 V-U			
(mm)	(m)	(mm²)	(S:1,4) (mm²)	(mm)	1,5mm²	2,5mm²	4mm²	6mm²
18x10	2,10 (a)	182,1	130	10	16	11	9	6
30x10	2,10 (a)	310	221	10	28	18	15	11
		1 145 2 145	104 104	10	13 13	9 9	7 7	5 5
30x14	2,10 (a)	401	286	14	36	25	20	15
38x9	2,10 (a)	1 179 2 179	128 128	9 9	16 16	11 11	9 9	6 6
38x14	2,10 (a)	1 232 2 232	166 166	14 14	21 21	14 14	11 11	8 8
47x17	2,10 (a)	836	597	17	75	50	40	30

10 SERIES HALOGEN FREE - MINI CABLE (SELECTION GUIDE)

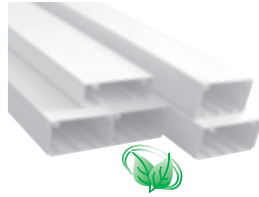
RoHS 

IP44

IK08

TRUNKINGS
(COVERS WITH 75MM WIDTH - L75)

Ref.



110x34
without Divider



110x34
with 2 Dividers



10080 HBR

110x34
with
Flush Mounting Box



110x34
with
Semi-Flush Mounting
Box



110x50
without Divider



110x50
with 1 Divider



110x50
with 2 Dividers

10090 HBR



110x50
with
Flush Mounting Box



110x50
with
Semi-Flush Mounting
Box



Trunkings Characteristics			
Internal Dim.	Length	Internal Section (S)	Available Section (Su)
(mm)	(m)	(mm ²)	(S: 1,4) (mm ²)
106x31	2,00	3115,1	2225,1
—	—	① 896 ② 1148 ③ 896	① 640 ② 820 ③ 640
—	—	1315,1 (b)	969,4
—	—	1892,1 (b)	1351,5
106x47	2,00	4834,5	3453,2
—	—	① 2353,2 ② 2353,2	① 1680,9 ② 1680,9
—	—	① 1188,1 ② 2202 ③ 1188,1	① 848,6 ② 1572,9 ③ 848,6
—	—	3034,5 (b)	2167,5
—	—	3611,5 (b)	2579,6

Isolated Cables Capacity				
ø Max. Available	Max. Nr. Conductors H07 V-U			
(mm)	1,5mm ²	2,5mm ²	4mm ²	6mm ²
28	283	192	154	115
24	81	55	44	33
27	104	71	57	42
24	81	55	44	33
—	119	81	65	48
—	172	116	93	69
43	434	294	235	176
41	214	145	116	86
41	210	142	114	85
31	126	86	69	51
38	161	109	87	65
31	126	86	69	51
—	270	183	146	109
—	322	219	175	130

10 SERIES HALOGEN FREE - MINI CABLE (SELECTION GUIDE)

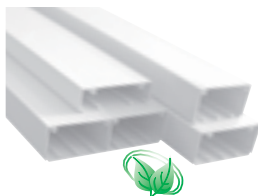
RoHS

IP44

IK08

TRUNKINGS
(COVERS WITH 75MM WIDTH - L75)

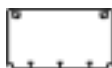
Ref.



Trunkings Characteristics			
Internal Dim.	Length	Internal Section (S)	Available Section (Su)
(mm)	(m)	(mm ²)	(S: 1,4) (mm ²)
86x47	2,00	3909,3	2792,4
—	—	① 1890,6 ② 1890,6	① 1350,4 ② 1350,4
—	—	① 725,6 ② 2202 ③ 725,6	① 518,3 ② 1572,9 ③ 518,3
—	—	2109,3 (b)	1506,6
—	—	2686,3 (b)	1918,8
87x47 87x47	2,00	① 3960,9	① 2829,2
—	—	① 1946,9 ② 1885,9	① 1390,6 ② 1347,1
—	—	① 781,9 ② 2202 ③ 720,8	① 558,5 ② 1572,9 ③ 514,9
—	—	① 2160,9 (b)	① 1543,5
—	—	① 2737,9 (b)	① 1955,6

Isolated Cables Capacity				
ø Max. Available	Max. Nr. Conductors H07 V-U			
(mm)	1,5mm ²	2,5mm ²	4mm ²	6mm ²
45	349	233	186	140
40 40	169 169	113 113	90 90	68 68
25 30 25	65 197 65	43 131 43	35 105 35	26 79 26
—	188	126	100	75
—	240	160	128	96
45 45	354 174 168	236 116 112	189 93 90	141 70 67
45 45 45	70 197 64	47 131 43	37 105 34	28 79 26
—	193	129	103	77
—	244	163	130	98

90x50
without Divider



90x50
with 1 Divider



90x50
with 2 Dividers

10180 HBR



90x50
with
Flush Mounting Box



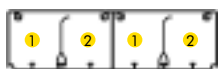
90x50
with
Semi-Flush Mounting
Box



180x50
without Divider



180x50
with 1 Divider



180x50
with 2 Dividers

10290 HBR



180x50
with
Flush Mounting Box



180x50
with
Semi-Flush Mounting
Box



10 SERIES - MINI CABLE TRUNKINGS (SELECTION GUIDE)

RoHS

IP44

IK07



TRUNKINGS

Ref.

12x7 (IK05)	10010 CBR	
12x7 Adhesive Trunking (IK05)	10010 FBR	
16x10	10020 CBR	
16x10 Adhesive Trunking	10020 FBR	
20x12,5	10030 CBR	
20x12,5 Adhesive Trunking	10030 FBR	
32x12,5 without Divider	10400 CBR	
32x12,5 Adhesive without Divider	10400 FBR	
32x12,5	10410 CBR	
32x12,5 Adhesive Trunking	10410 FBR	
32x16	10040 CBR	
32x16 Adhesive Trunking	10040 FBR	
40x12,5	10050 CBR	
40x12,5 Adhesive Trunking	10050 FBR	
40x12,5 without Divider	10150 CBR	
40x12,5 Adhesive without Divider	10150 FBR	
40x16	10060 CBR	
40x16 Adhesive Trunking	10060 FBR	
40x16 without Divider	10160 CBR	
40x16 Adhesive without Divider	10160 FBR	
50x20	10500 CBR	
50x20 with 1 Divider	10510 CBR	
50x20 with 2 Dividers	10520 CBR	
60x16	10070 CBR	
60x16 without Divider	10070 CBR	
75x20	10140 CBR	

Trunkings Characteristics			
Internal Dim.	Length	Internal Section (S)	Available Section (Su)
(mm)	(m)	(mm ²)	(S:1,4) (mm ²)
10x5	2,10 (a)	61,2	44
14x8	2,10 (a)	121	86
18x10	2,10 (a)	182,1	130
30x10	2,10 (a)	310	221
		1 145 2 145	104 104
30x14	2,10 (a)	401	286
38x9	2,10 (a)	1 179 2 179	128 128
		394,8	282
38x14	2,10 (a)	1 232 2 232	166 166
		514,7	368
47x17	2,10 (a)	836	597
		1 553 2 256	395 183
		1 256 2 270 3 256	183 193 183
57x14	2,10 (a)	1 228 2 246 3 228	163 176 163
		787,9	563
72x18	2,10 (a)	1 325 2 463 3 325	232 331 232

Isolated Cables Capacity				
ø Max. Available	Max. Nr. Conductors H07 V-U			
(mm)	1,5mm ²	2,5mm ²	4mm ²	6mm ²
5	5	4	3	2
8	11	7	6	4
10	16	11	9	6
10	28	18	15	11
10	13 13	9 9	7 7	5 5
14	36	25	20	15
9	16	11	9	6
9	16	11	9	6
9	36	24	19	14
14	21 21	14 14	11 11	8 8
14	47	32	25	19
17	75	50	40	30
17	49 23	33 15	26 12	20 9
17	23 24 23	15 16 15	12 13 12	9 10 9
14	20	14	11	8
14	22	15	12	9
14	20	14	11	8
14	72	48	39	29
17	29	20	16	12
17	42	28	23	17
17	29	20	16	12

10 SERIES - DISTRIBUTION CABLE TRUNKINGS (SELECTION GUIDE)

RoHS

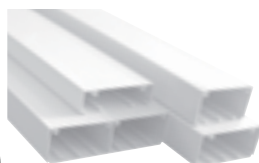
IP44

IK08

TRUNKINGS

(COVERS WITH 75MM WIDTH 75MM - L75)

Ref.



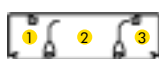
110x34

without Divider



110x34

with 2 Dividers



10080 RBR

110x34

with
Flush Mounting Box



110x34

with
Semi-Flush Mounting
Box



110x50

without Divider



110x50

with 1 Divider



110x50

with 2 Dividers

10090 RBR



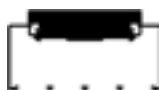
110x50

with
Flush Mounting Box



110x50

with
Semi-Flush Mounting
Box



Trunkings Characteristics

Internal Dim.	Length	Internal Section (S)	Available Section (Su)
(mm)	(m)	(mm ²)	(S: 1,4) (mm ²)
106x31	2,00	3115,1	2225,1
—	—	① 896 ② 1148 ③ 896	① 640 ② 820 ③ 640
—	—	1315,1 (b)	969,4
—	—	1892,1 (b)	1351,5
106x47	2,00	4834,5	3453,2
—	—	① 2353,2 ② 2353,2	① 1680,9 ② 1680,9
—	—	① 1188,1 ② 2202 ③ 1188,1	① 848,6 ② 1572,9 ③ 848,6
—	—	3034,5 (b)	2167,5
—	—	3611,5 (b)	2579,6

Isolated Cables Capacity

ø Max. Available	Max. Nr. Conductors H07 V-U				
(mm)	1,5mm ²	2,5mm ²	4mm ²	6mm ²	
28	283	192	154	115	
24	81	55	44	33	
27	104	71	57	42	
24	81	55	44	33	
—	119	81	65	48	
—	172	116	93	69	
43	434	294	235	176	
41	214	145	116	86	
41	210	142	114	85	
31	126	86	69	51	
38	161	109	87	65	
31	126	86	69	51	
—	270	183	146	109	
—	322	219	175	130	

10 SERIES - DISTRIBUTION CABLE TRUNKINGS (SELECTION GUIDE)

RoHS 

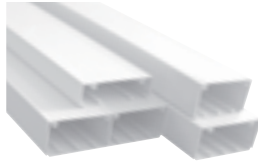
IP44

IK08

TRUNKINGS

(COVERS WITH 75MM WIDTH 75MM - L75)

Ref.



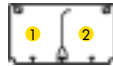
90x50

without Divider



90x50

with 1 Divider



90x50

with 2 Dividers

10180 RBR



90x50

with
Flush Mounting Box



90x50

with
Semi-Flush Mounting
Box



180x50

without Divider



180x50

with 1 Divider



180x50

with 2 Dividers

10290 RBR



180x50

with
Flush Mounting Box



180x50

with
Semi-Flush Mounting
Box



Trunkings Characteristics

Internal Dim.	Length	Internal Section (S)	Available Section (Su)
(mm)	(m)	(mm ²)	(S: 1,4) (mm ²)
86x47	2,00	3909,3	2792,4
—	—	1 1890,6 2 1890,6	1 1350,4 2 1350,4
—	—	1 725,6 2 2202 3 725,6	1 518,3 2 1572,9 3 518,3
—	—	2109,3 (b)	1506,6
—	—	2686,3 (b)	1918,8
87x47 87x47	2,00	1 3960,9	1 2829,2
—	—	1 1946,9 2 1885,9	1 1390,6 2 1347,1
—	—	1 781,9 2 2202 3 720,8	1 558,5 2 1572,9 3 514,9
—	—	1 2160,9 (b)	1 1543,5
—	—	1 2737,9 (b)	1 1955,6

Isolated Cables Capacity

ø Max. Available	Max. Nr. Conductors H07 V-U				
(mm)	1,5mm ²	2,5mm ²	4mm ²	6mm ²	
45	349	233	186	140	
40 40	169 169	113 113	90 90	68 68	
25 30 25	65 197 65	43 131 43	35 105 35	26 79 26	
—	188	126	100	75	
—	240	160	128	96	
45	354	236	189	141	
45 45	174 168	116 112	93 90	70 67	
45 45 45	70 197 64	47 131 43	37 105 34	28 79 26	
—	193	129	103	77	
—	244	163	130	98	

10 SERIES - SKIRT CABLE TRUNKINGS (SELECTION GUIDE)

RoHS

IP44



TRUNKINGS

Ref.

110x20
(IK05)

10100 CBR



Trunkings Characteristics

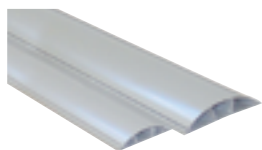
Internal Dim.	Length	Internal Section (S)	Available Section (Su)
(mm)	(m)	(mm ²)	(S:1,4) (mm ²)
104x17	2,00	1 330,7 2 420,7 3 436,9	236 301 312

Isolated Cables Capacity

ø Max. Available	Max. Nr. Conductors H07 V-U				
(mm)	1,5mm ²	2,5mm ²	4mm ²	6mm ²	
14	30	20	16	12	
16	38	26	21	15	
17	40	27	21	16	

10 SERIES - FLOOR CABLE TRUNKINGS (SELECTION GUIDE)

RoHS



TRUNKINGS

Ref.

50x12

10110 CCZ



75x17

10120 CCZ



Trunkings Characteristics

Internal Dim.	Length	Internal Section (S)	Available Section (Su)
(mm)	(m)	(mm ²)	(S:1,4) (mm ²)
30x9	2,00	1 47 2 148 3 47	34 106 34
60x14	2,00	1 198,8 2 238,5 3 198,8	142 170 142

Isolated Cables Capacity

ø Max. Available	Max. Nr. Conductors H07 V-U				
(mm)	1,5mm ²	2,5mm ²	4mm ²	6mm ²	
6	4	3	2	1	
9	13	9	7	5	
6	4	3	2	1	
11	18	12	10	7	
14	21	14	11	8	
11	18	12	10	7	

13 SERIES - TRUNKINGS FOR PROTECTION OF CABLES AND PIPES (SELECTION GUIDE)

RoHS

IP44

IK08



TRUNKINGS

Ref.

25x30

13010 CBR



40x40

13020 CBR



60x40

13030 CBR



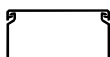
60x60

13040 CBR



80x40

13050 CBR



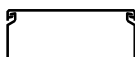
80x60

13060 CBR



100x40

13070 CBR



100x60

13080 CBR



Trunkings Characteristics

Internal Dim.	Length	Internal Section (S)	Available Section (Su)
(mm)	(m)	(mm ²)	(S:1,4) (mm ²)
22x27	2,00	530,0	379
37x37	2,00	1280,6	915
56x37	2,00	1973,7	1410
56x56	2,00	3101,7	2216
73x36	2,00	2668,0	1906
76x56	2,00	4192,0	2994
96x36	2,00	3352,3	2395
96x56	2,00	5272,3	3766

Cables, Pipes and Conductors Capacity

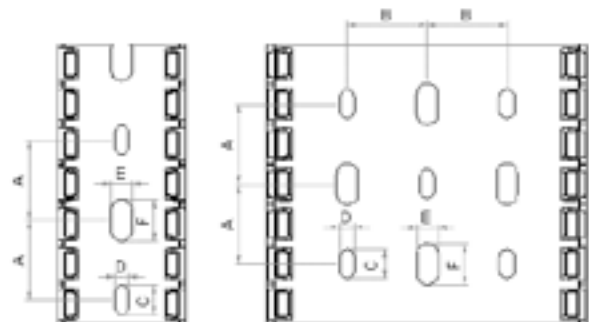
ø Max. Available	Max. Nr. Conductors H07 V-U			
(mm)	1,5mm ²	2,5mm ²	4mm ²	6mm ²
20	48	32	26	19
35	116	79	63	47
35	180	122	97	73
55	282	191	153	114
35	243	164	132	98
55	382	259	207	154
35	305	207	166	123
55	480	325	260	194

14 SERIES - TRUNKINGS FOR PANELBOARDS (SELECTION GUIDE)

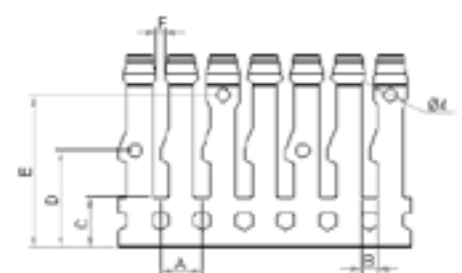


TRUNKINGS		Ref.		Trunkings Characteristics				Cables, Pipes and Conductors Capacity				
				Internal Dim.	Length	Internal Section (S)	Available Section (Su)	ø Max. Available	Max. Nr. Conductors H07 V-U			
				(mm)	(m)	(mm²)	(S:1,4) (mm²)	(mm)	1,5mm²	2,5mm²	4mm²	6mm²
25x30		14010 CCZ		22x27	2,00	530,0	379	20	48	32	26	19
25x60		14090 CCZ		22x56	2,00	1099	785	20	98	65	52	39
40x40		14020 CCZ		37x37	2,00	1280,6	915	35	116	79	63	47
60x40		14030 CCZ		56x37	2,00	1973,7	1410	35	180	122	97	73
60x60		14040 CCZ		56x56	2,00	3101,7	2216	55	282	191	153	114
80x40		14050 CCZ		73x36	2,00	2668,0	1906	35	243	164	132	98
80x60		14060 CCZ		76x56	2,00	4192,0	2994	55	382	259	207	154
100x40		14070 CCZ		96x36	2,00	3352,3	2395	35	305	207	166	123
100x60		14080 CCZ		96x56	2,00	5272,3	3766	55	480	325	260	194

Base Perforation (mm)							
L	H	A	B	C	D	E	F
25	30	25	—	9	4,5	13	6,5
	60						
40	40						
60	60						
	40		25				
60							
80	40						
	60						
100	40						
	60						



Lateral Perforation (mm)							
L	H	A	B	C	D	E	F
25	30	125	5	10,5	17	—	2,5
	60			15	29	45	
40	40			11,5	20	—	
60	60			15	29	45	
80	40			12	20	—	
	60			15	29	45	
100	40			12	20	—	
	60			15	29	45	



TABLES OF CABLES | CRITERIA FOR CABLE TRUNKINGS SELECTION

TABLE OF CABLES

■ Energy Cables

Diameter and Section Table of some common cables.
(The dimensions may vary according to the manufacturer)

■ Data and Telephone Cables

Diameter and Section Table of some common data cables, UTP, STP, FTP and Coaxial type.
(The dimensions may vary according to the manufacturer)

TYPE OF CABLE	NOMINAL SECTION (mm)	DIAMETER (mm)	SECTION (mm ²)	TYPE OF CABLE	DIAMETER (mm)	SECTION (mm ²)
H05 VV-F	2x0,75	7,6	58	4 Pairs UTP Cat. 5e Cable	6,2	37,5
H05 VV-F	2x1	8,0	64	4 Pairs FTP Cat. 5e Cable	6,9	47,2
H05 VV-F	2x1,5	9,0	81	4 Pairs UTP Cat. 6 Cable	7,6	57
H05 VV-F	2x2,5	11,0	121	4 Pairs FTP Cat. 6 Cable	8,3	68
H05 VV-F	3 G 0,75	8,0	64	RG 59 Coaxial Cable	6,2	38,4
H05 VV-F	3 G 1	8,4	71	RG 58 Coaxial Cable	5	25
H05 VV-F	3 G 1,5	9,8	96	RG 11 Coaxial Cable	10,5	110,3
H05 VV-F	3 G 2,5	12,0	144	RG 8 Coaxial Cable	10,3	106,1
H07 V-U	1x1,5	2,8	7,84	RG 7 Coaxial Cable	8,1	65,6
H07 V-U	1x2,5	3,4	11,56	RG 6 Coaxial Cable	7	49
H07 V-U	1x4	3,8	14,44	TVHV 1x2x0,5 Cable	4,3	18,5
H07 V-U	1x6	4,4	19,36	TVHV 2x2x0,5 Cable	5,0	25
H07 V-K	1x1,5	3,5	12	TVHV 3x2x0,5 Cable	5,7	32,5
H07 V-K	1x2,5	4,2	18	TVHV 6x2x0,5 Cable	6,5	42,3
H07 V-K	1x4	4,8	23	TVHV 10x2x0,5 Cable	7,8	60,8
H07 V-K	1x6	6,3	40	TVHV 15x2x0,5 Cable	8,7	75,7
H07 V-K	1x10	7,6	58	TVHV 20x2x0,5 Cable	9,7	94,1
VV-0,6/1 KV	3x16+10	20,7	428	TVHV 30x2x0,5 Cable	12,0	144
VV-0,6/1 KV	3x25+16	23,0	529	TVHV 40x2x0,5 Cable	13,5	182,3
VV-0,6/1 KV	3x35+16	25,0	625	TVHV 50x2x0,5 Cable	15,0	225
VV-0,6/1 KV	4 G 1,5	11,4	130	TVHV 100x2x0,5 Cable	20,0	400

CRITERIA FOR CABLE TRUNKINGS SELECTION

Examples for common installations:

Cables to be installed

TYPE OF CABLE	QUANTITY (Q)	NOMINAL SECTION (S)	OUTSIDE DIAMETER (D) (mm)	UNITARY SECTION (SU) (SU= DxD)	TOTAL SECTION (ST) (mm ²) (SUxQ)
H07 V-U	20	1x4	3,8	14,44	288,8
H07 V-U	15	1x6	4,4	19,36	290,4
H07 V-U	10	1x2,5	3,4	11,56	115,6
H07 V-U	10	1x4	3,8	14,44	144,4
Cable Total Section (St)					839,2mm²
Minimum Trunkings Section = Cables Total Section (St) x K = 839,2 x 1,4 =					1174,88mm²

Typical K values to ensure better ventilation, crossings and possible expansions:

K = Filling Coefficient

K = 1,4 for Low Voltage, Power Cable

K = 1,3 for Data and Telephone Cables

K = 1,2 for Tubes

It is possible to choose one of the following EFAPEL's cable trunkings:

CABLE TRUNKINGS			
Ref.	DESCRIPTION	INTERNAL SECTION (mm ²)	AVAILABLE SECTION (mm ²)
10080 RBR	Calha 110x34	3115,1	2225,1
13030 CBR	Calha 60x40	1973,7	1410
16020 CBR	Calha 90x50	3956	2826

10 Serie - CABLE TRUNKINGS FOR ELECTRICAL AND TELECOMMUNICATIONS INSTALLATIONS

SECTION 6	CLASSIFICATION	MINI CABLE TRUNKINGS SKIRT CABLE TRUNKINGS	DISTRIBUTION CABLE TRUNKINGS
6.2	Resistance to impact for installation and application	12x7	0,5 J
		110x20	1 J
		16x10 / 20x12,5 / 32x12,5 / 32x16 / 40x12,5 / 40x16 / 50x20 / 60x16 / 75x20	2 J
6.3	Minimum Storage and Transport Temperature	-25°C	-45°C
6.3	Minimum Installation and Application Temperature	-5°C	-25°C
6.3	Maximum Application Temperature	60°C	60°C
6.4	Resistance to flame propagation	Non-flame propagating	
6.5	Electrical continuity characteristic	Without electrical continuity	
6.6	Electrical insulation	With electrical insulation	
6.7	Protection degree provided by enclosure	IP44	
6.8	Protection against corrosive or polluting substances	Medium protection outside and inside	
6.9	Access system to the retention of the cover	The cover can only be removed with a tool	
6.10	Electrical protective separation	With and without electrical protective partition (divider)	
6.101	Intended installation positions	Surface mounted fixed on the wall or on the ceiling	
6.102	Prevention of contact between liquids and insulated conductors and live parts in case of mounted in a skirting position and on wet floor	Not declared	
6.103	Type	3 (installation)	
	Glow Wire Test	—	1000°C
	Rated Voltage	500V~	1000V~
	IEC 60884-1 – NP 1260 Fixation of Low Voltage Devices - Test of Resistance to Extraction	—	Declared Extraction Force: 90N 1,5x90 = 135N

ASTM G-53 STANDARD

UV Resistance

ACCELERATED AGING CHAMBER TESTS	RESISTANCE
Test UV	80h - without changes
Condensation Test	40h - without changes



RoHS - All the Cable Trunkings and the respective Accessories manufactured by EFAPEL fulfil the specifications of the RoHS 2011/65/UE Directive that restricts the use of certain hazardous substances like lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ether (PBDE).

10 Serie - CABLE TRUNKINGS HALOGEN FREE FOR ELECTRICAL AND TELECOMMUNICATIONS INSTALLATIONS

SECTION 6	CLASSIFICATION	MINI CABLE TRUNKINGS		DISTRIBUTION CABLE TRUNKINGS
6.2	Resistance to impact for installation and application	20x12,5 / 32x12,5 / 32x16 / 40x12,5 40x16 / 50x20	2 J	Cable Trunkings and Accessories: 2 J Trunkings: 5 J
6.3	Minimum Storage and Transport Temperature	-25°C		-45°C
6.3	Minimum Installation and Application Temperature	-5°C		-25°C
6.3	Maximum Application Temperature	60°C		60°C
6.4	Resistance to flame propagation	Non-flame propagating		
6.5	Electrical continuity characteristic	Without electrical continuity		
6.6	Electrical insulation	With electrical insulation		
6.7	Protection degree provided by enclosure	IP44		
6.8	Protection against corrosive or polluting substances	Medium protection outside and inside		
6.9	Access system to the retention of the cover	The cover can only be removed with a tool		
6.10	Electrical protective separation	With and without electrical protective partition (divider)		
6.101	Intended installation positions	Surface mounted fixed on the wall or on the ceiling		
6.102	Prevention of contact between liquids and insulated conductors and live parts in case of mounted in a skirting position and on wet floor	Not declared		
6.103	Type	3 (installation)		
	Glow Wire Test	—		1000°C
	Rated Voltage	500V~		1000V~
	IEC 60884-1 – NP 1260 Fixation of Low Voltage Devices - Test of Resistance to Extraction	—		Força de extração declarada: 90N 1,5x90 = 135N

ASTM G-53 STANDARD

UV Resistance

ACCELERATED AGING CHAMBER TESTS	RESISTANCE
Test UV	80h - without changes
Condensation Test	40h - without changes



RoHS - All the Cable Trunkings and the respective Accessories manufactured by EFAPEL fulfil the specifications of the RoHS 2011/65/UE Directive that restricts the use of certain hazardous substances like lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ether (PBDE).

CLASSIFICATION - EN 50085-2-2 STANDARD

10 Serie - FLOOR CABLE TRUNKINGS

SECTION 6	CLASSIFICATION	FLOOR CABLE TRUNKINGS
6.2	Resistance to impact for installation and application	2 J
6.3	Minimum Storage and Transport Temperature	-25°C
6.3	Minimum Installation and Application Temperature	-5°C
6.3	Maximum Application Temperature	60°C
6.4	Resistance to flame propagation	Non-flame propagating
6.5	Electrical continuity characteristic	Without electrical continuity
6.6	Electrical insulation	Without electrical insulation
6.7	Protection degree provided by enclosure	IP44
6.8	Protection against corrosive or polluting substances	Medium protection outside and inside
6.9	Access system to the retention of the cover	The cover can only be removed with a tool
6.10	Electrical protective separation	With electrical protective partition (divider)
6.101.3	Floor treatment	CTS/CDS for wet-treatment of floor when the service unit is in use
6.102	Resistance to vertical load applied through small surface area	500N
6.103	Resistance to vertical load applied through large surface area	2000N

ASTM G-53 STANDARD

UV Resistant

ACCELERATED AGING CHAMBER TESTS	RESISTANCE
UV Test	80h - without undergoing change
Condensation test	40h - without undergoing change



RoHS - All the Cable Trunkings and the respective Accessories manufactured by EFAPEL fulfil the specifications of the RoHS 2011/65/UE Directive that restricts the use of certain hazardous substances like lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ether (PBDE).

CLASSIFICATION - EN 50085-2-1 STANDARD

13 SERIES - TRUNKINGS FOR PROTECTION OF CABLES AND PIPES

SECTION 6	CLASSIFICATION	TRUNKINGS FOR PROTECTION OF CABLES AND PIPES	
		With Accessory	Trunking
6.2	Resistance to impact for installation and application	2 J	5 J
6.3	Minimum Storage and Transport Temperature	-25°C	
6.3	Minimum Installation and Application Temperature	-5°C	
6.3	Maximum Application Temperature	60°C	
6.4	Resistance to flame propagation	Non-flame propagating	
6.5	Electrical continuity characteristic	Without electrical continuity	
6.6	Electrical insulation	With electrical insulation	
6.7	Protection degree provided by enclosure	IP44	
6.8	Protection against corrosive or polluting substances	Medium protection outside and inside	
6.9	Access system to the retention of the cover	The cover can only be removed with a tool	
6.10	Electrical protective separation	Without electrical protective partition (divider)	
6.101	Intended installation positions	Surface mounted fixed on the wall or on the ceiling	
6.102	Prevention of contact between liquids and insulated conductors and live parts in case of mounted in a skirting position and on wet floor.	Not declared	
6.103	Type	2 (distribution)	
	Rated Voltage	500V~	

ASTM G-53 STANDARD

UV Resistant

ACCELERATED AGING CHAMBER TESTS	RESISTANCE
UV Test	80h - without undergoing change
Condensation test	40h - without undergoing change



RoHS - All the Cable Trunkings and the respective Accessories manufactured by EFAPEL fulfil the specifications of the RoHS 2011/65/UE Directive that restricts the use of certain hazardous substances like lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ether (PBDE).

10 Series - CABLE TRUNKINGS FOR ELECTRICAL AND TELECOMMUNICATIONS INSTALLATIONS

Ref.	OUTSIDE DIMENSIONS (mm)	PROTECTION AGAINST EXTERNAL MECHANICAL SHOCKS - IK	
MINI CABLE TRUNKINGS		TRUNKINGS	ACCESSORIES
10010	12x7	IK05	IK05
10020	16x10	IK07	IK07
10030	20x12,5		
10400 10410	32x12,5		
10040	32x16		
10050 10150	40x12,5		
10060 10160	40x16		
10500 10510 10520	50x20		
10070 10170	60x16		
10140	75x20		
SKIRT CABLE TRUNKINGS		TRUNKINGS	ACCESSORIES
10100	110x20	IK05	IK05
FLOOR CABLE TRUNKINGS		TRUNKINGS	ACCESSORIES
10110	50x12	IK07	IK06
10120	75x17		
DISTRIBUTION CABLE TRUNKINGS		TRUNKINGS	ACCESSORIES
10080	110x34	IK09	IK08
10090	110x50		
10180	90x50		
10290	180x50		

10 Series - HALOGEN FREE CABLE TRUNKINGS FOR ELECTRICAL AND TELECOMMUNICATIONS INSTALLATIONS

Ref.	OUTSIDE DIMENSIONS (mm)	PROTECTION AGAINST EXTERNAL MECHANICAL SHOCKS - IK	
MINI CABLE TRUNKINGS		TRUNKINGS	ACCESSORIES
10030	20x12,5	IK08	IK07
10400 10410	32x12,5		
10040	32x16		
10050	40x12,5		
10060	40x16		
10500	50x20		
DISTRIBUTION CABLE TRUNKINGS		TRUNKINGS	ACCESSORIES
10080	110x34	IK09	IK08
10090	110x50		
10180	90x50		
10290	180x50		

13 Series - TRUNKINGS FOR PROTECTION OF CABLES AND PIPES

Ref.	OUTSIDE DIMENSIONS (mm)	PROTECTION AGAINST EXTERNAL MECHANICAL SHOCKS - IK	
		TRUNKINGS	ACCESSORIES
13010 CBR	25x30	IK08	IK07
13020 CBR	40x40		
13030 CBR	60x40		
13040 CBR	60x60		
13050 CBR	80x40		
13060 CBR	80x60		
13070 CBR	100x40		
13080 CBR	100x60		

CONNECTOR RJ45 UTP (REF. 21978 | 21975)

DESCRIPTION



RJ45 CAT. 6 CONNETORS UTP (250 MHz)
■ Unshielded.
■ Universal Keystone clamping system.



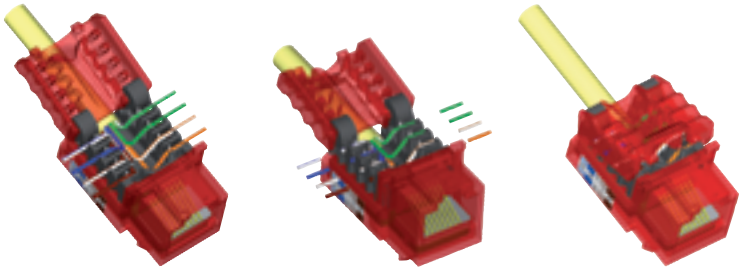
RJ45 CAT. 5e CONNETORS UTP (100 MHz)
■ Unshielded.
■ Universal Keystone clamping system.

CHARACTERISTICS

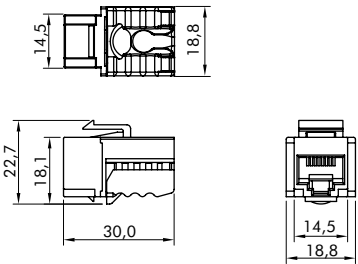
- Reduced size.
- Fast connection.
- Connection without tools (connectors with self-peeling contacts).
- Robust and secure connection, provided by an effective conductors fixation system.
- Compatible with cables: 23 - 26 AWG.
- Universal Keystone clamping system.
- Compatible with colors code EIA/TIA568A e EIA/TIA568B.

CONNECTIONS

TERMINALS	EIA/TIA 568A		EIA/TIA 568B	
	PAIR	WIRE COLOR	PAIR	WIRE COLOR
PIN 5	1	WHITE/BLUE	1	WHITE/BLUE
PIN 4		BLUE		BLUE
PIN 1	3	WHITE/GREEN	2	WHITE/ORANGE
PIN 2		GREEN		ORANGE
PIN 3	2	WHITE/ORANGE	3	WHITE/GREEN
PIN 6		ORANGE		GREEN
PIN 7	4	WHITE/BROWN	4	WHITE/BROWN
PIN 8		BROWN		BROWN



DIMENSIONS (mm)



DESCRIPTION



RJ45 CONNECTOR UTP CAT. 6 - MOUNTING RACK (250MHZ)
■ Unshielded.
■ Universal Keystone clamping system.



RJ45 CONNECTOR STP
■ Shielded.
■ Universal Keystone clamping system.

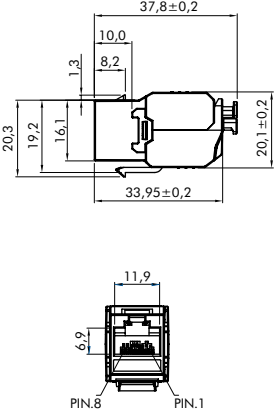
CHARACTERISTICS

- Connection with and without tools (connectors with self-peeling contacts).
- Compatible with cables: 23 - 26 AWG
- Compatible with both 110 and Krone push down tool.
- Compatible with colors code EIA/TIA568A and EIA/TIA568B.
- Insertion force:
20N max. IEC 60603-7-4 (UTP).
- Insertion force:
30N max. IEC 60603-7-5 (STP).
- Operating temperature:
-10°C to 60°C.
- Retention strength: 7,7 kgf.
- Durability: 750 cycles.

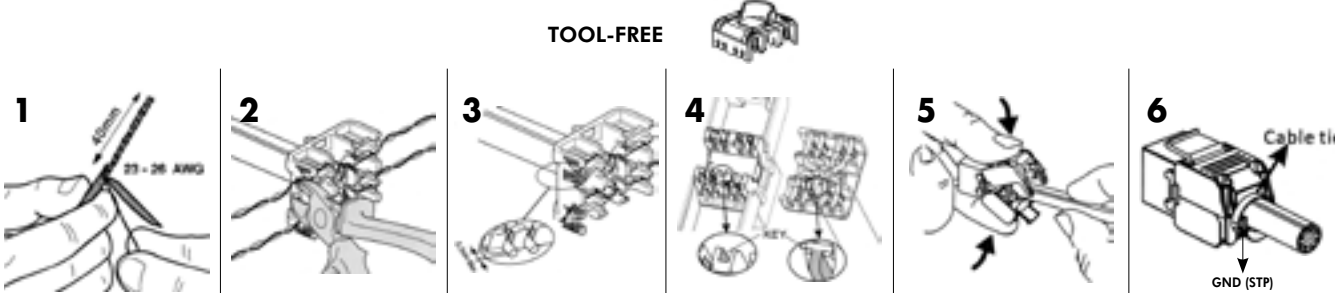
CONNECTIONS

TERMINAIS	EIA/TIA 568A		EIA/TIA 568B	
	PAIR	WIRE COLOR	PAIR	WIRE COLOR
				
PIN 5	1	WHITE/BLUE	1	WHITE/BLUE
PIN 4		BLUE		BLUE
PIN 1	3	WHITE/GREEN	2	WHITE/ORANGE
PIN 2		GREEN		ORANGE
PIN 3	2	WHITE/ORANGE	3	WHITE/GREEN
PIN 6		ORANGE		GREEN
PIN 7	4	WHITE/BROWN	4	WHITE/BROWN
PIN 8		BROWN		BROWN

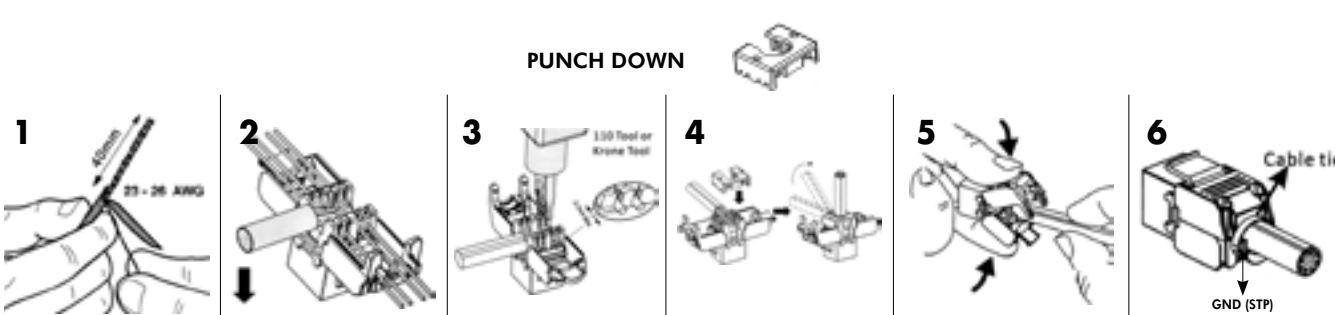
DIMENSIONS (mm)



TOOL-FREE



PUNCH DOWN



COUPLERS FOR FIBRE OPTIC CONNECTORS

DESCRIPTION



COUPLERS FOR FIBRE OPTIC CONNECTORS

- SC-APC Duplex
- SC-APC Simplex
- LC Duplex



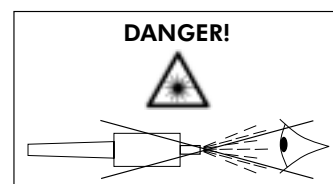
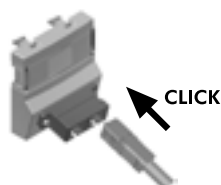
PROTECTIVE COVER

- Duplex
- Simplex

CHARACTERISTICS

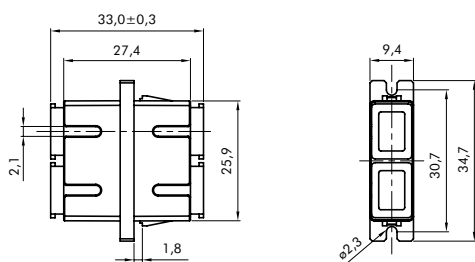
- Durability: 500 cycles.
- Tension strength: 10 kgf.
- Insertion losses: < 0,2 dB (single mode).
- Operating temperature: -20°C a 70°C.
- Storage temperature: -40°C a 80°C.

CONNECTIONS

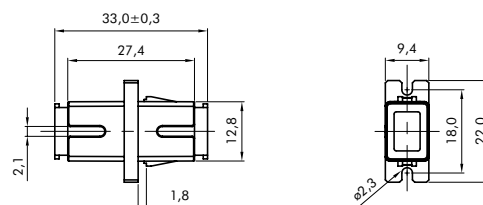


DIMENSIONS (mm)

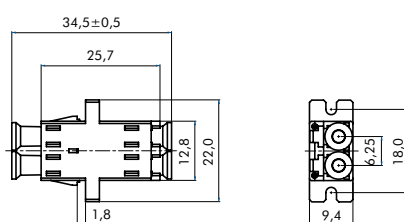
■ SC-APC DUPLEX



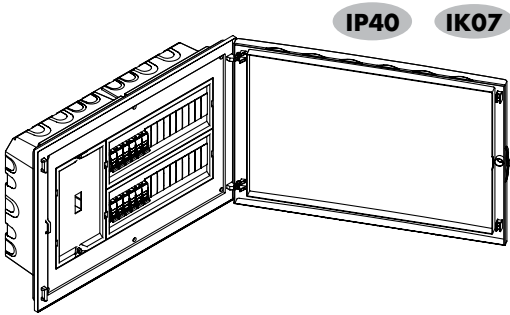
■ SC-APC SIMPLEX



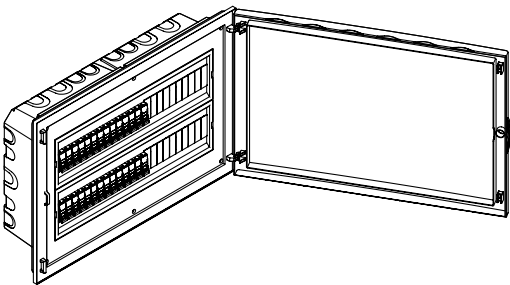
■ LC Duplex



DESCRIPTION

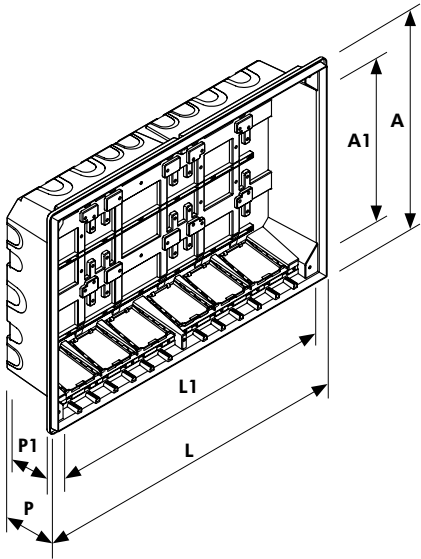


- RCD Incomer Panels allow the attachment of modular equipment and the Power Control Device (RCD).
- In accordance with Standards: EN 62208 / EN 61439-3.
- Insulation Class: II.
- White - RAL 9003.
- Reversible door.
- Rotary Lever Lock or Keylock option.



- Distribution Panels allow the attachment of modular equipment.
- In accordance with Standards: EN 62208 / EN 61439-3.
- Insulation Class: II.
- White - RAL 9003.
- Reversible door.
- Rotary Lever Lock or Keylock option.

DIMENSIONS (mm)

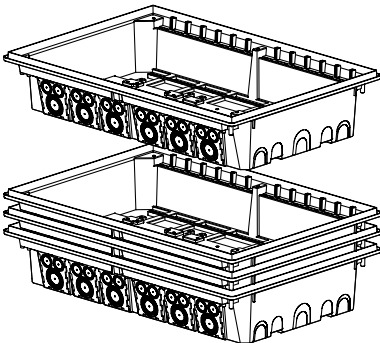


FLUSH MOUNTING BOXES FOR PANELS

REF.	L (mm)	A (mm)	P (mm)	L1 (mm)	A1 (mm)	P1 (mm)
60004	192	255	113	170	188	92
60008	264	255	113	242	188	92
60012	336	255	113	314	188	92
60016	264	380	113	242	313	92
60024	336	380	113	314	313	92
60032	408	380	113	386	313	92
60040	480	380	113	458	313	92
60048	552	380	113	530	313	92
60060	480	505	113	458	438	92
60080	480	630	113	458	563	92

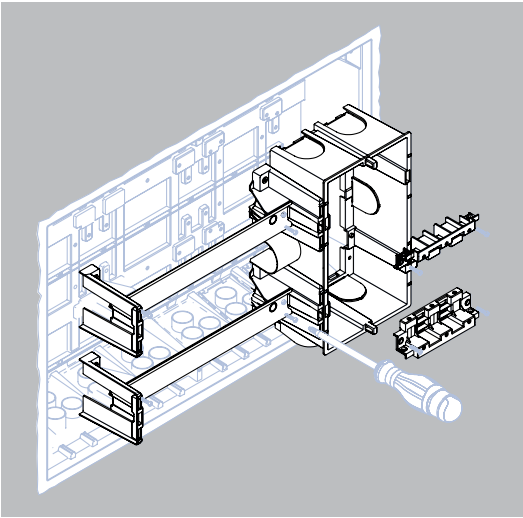
CHARACTERISTICS

- Flush Mounting Boxes for Panel Boards were designed to be stackable, fitting into each other to enable each stack of four boxes to occupy the space of two.

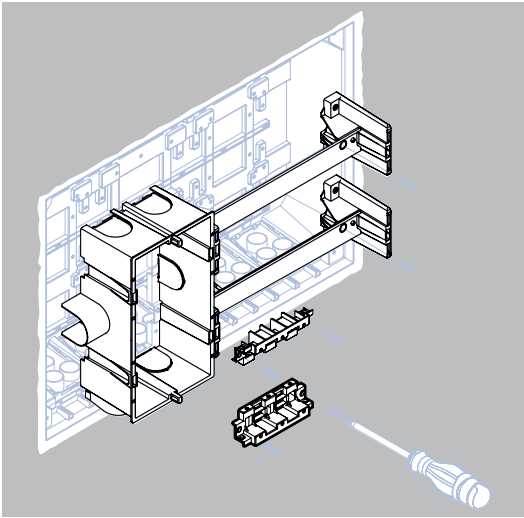


MOUNTING DIAGRAM

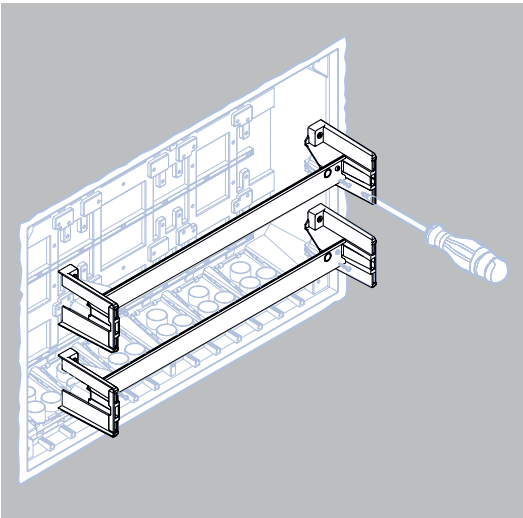
RCD IN THE RIGHT SIDE



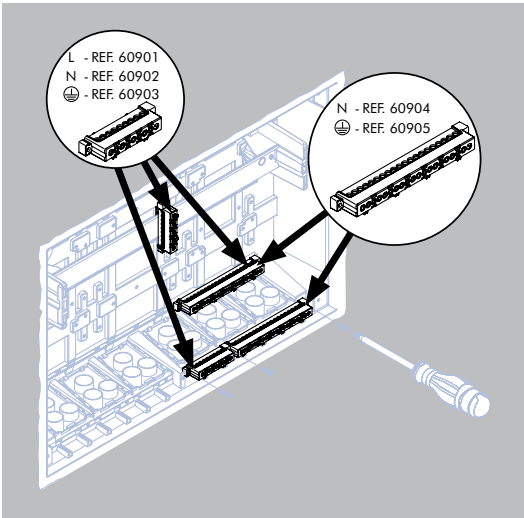
RCD IN THE LEFT SIDE



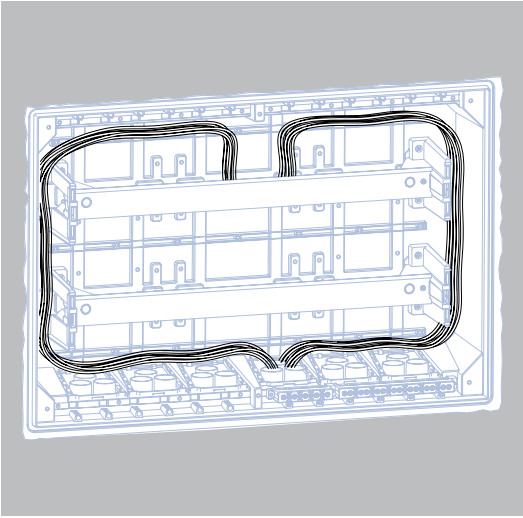
DIN RAIL FIXATION



BRASS TERMINALS FIXATION

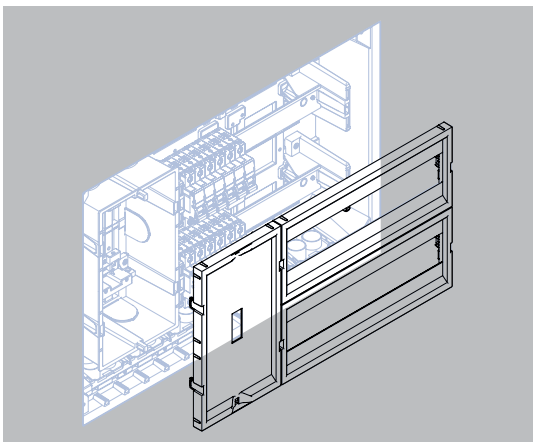
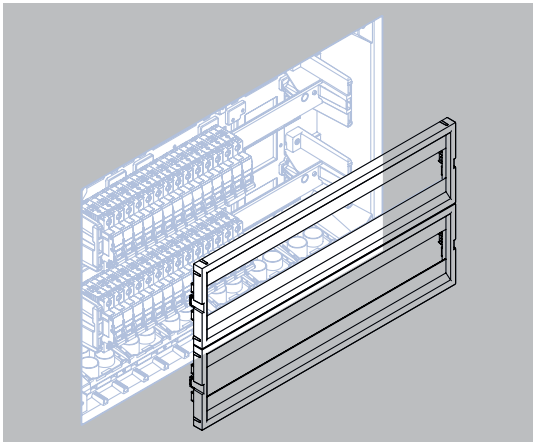


CABLE TIDYING

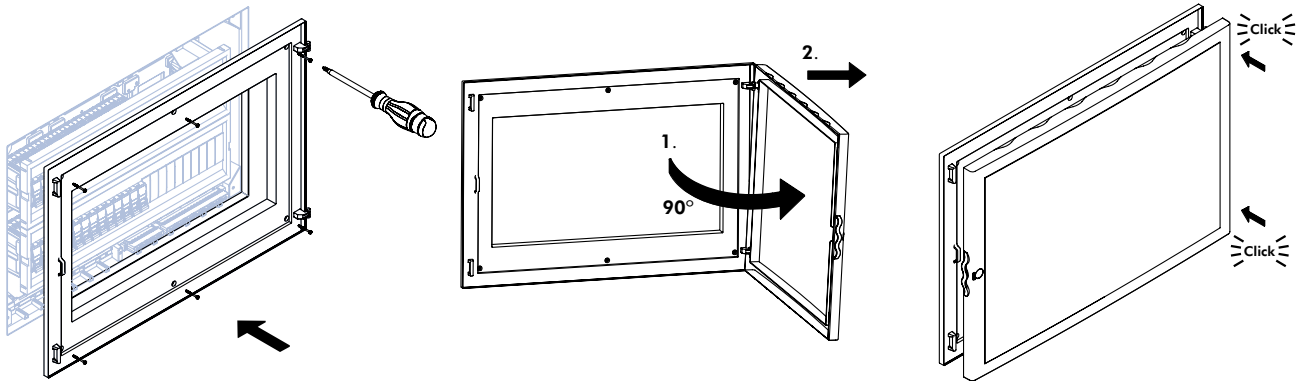


MOUNTING DIAGRAM

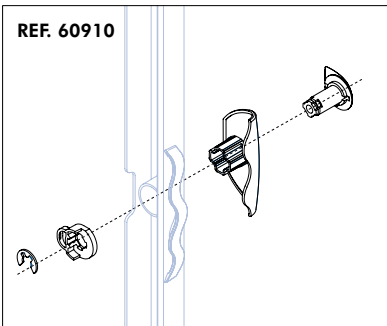
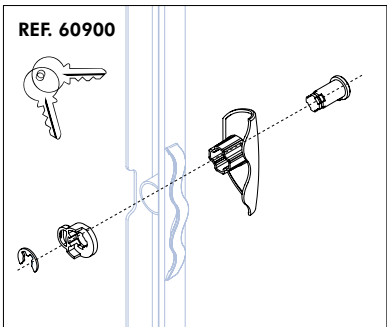
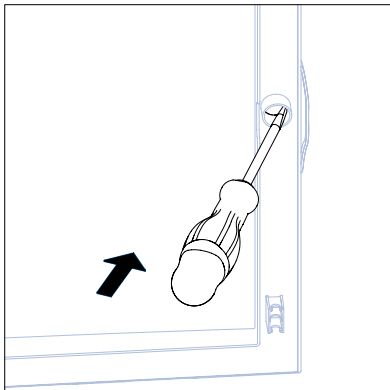
MASKS



ASSEMBLY AND DISMANTLING OF THE DOOR FRAME AND DOOR



ASSEMBLY OF THE ROTARY LEVER LOCK AND KEYLOCK



■ CLASSIFICATION - EN 62208 STANDARD

SECTION 4	CLASSIFICATION	PANELBOARDS
a	Type of material	Insulating
b	Means of fixing	Recessed mounting
		Not for installation in hollow walls
c	Installation Location	Interior
d	Protection degree	IP40 in accordance with IEC 60529
		IK07 in accordance with IEC 62262
e	Isolation voltage	Ui=400V; nominal intensity: In ≤ 63A with 230/400 V

SECTION 6.3	DOCUMENTATION	PANELBOARDS
	Permissible loads	Maximum permissible load within the housing is 200 kg/m ³
		Do not apply loads to the cover.
	Lifting devices, where necessary	Not applicable
	Devices for protection from electrical shock	Not applicable, plastic casing
	Applicable conditions of use	Interior installation: Temperatures between -5° C e +40° C
	Data on ability to dissipate thermal energy	Maximum interior thermal charge 40W

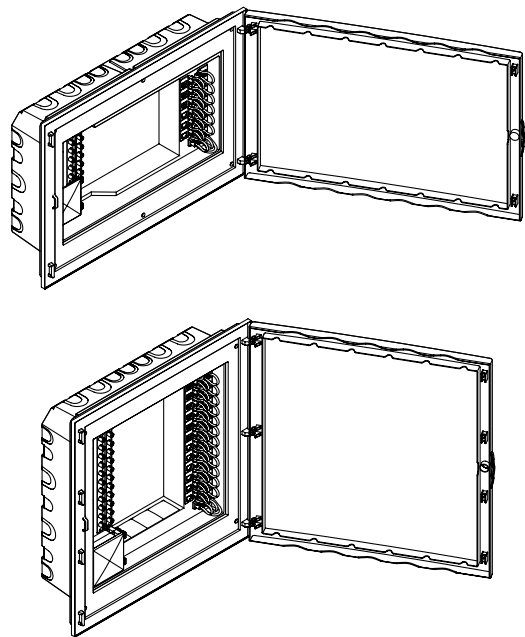
■ SPECIFIC CLASSIFICATION - EN 61439-3 STANDARD

SECTION 5.6	DOCUMENTATION	PANELBOARDS
	Nominal Frequency (fn)	50Hz
	Level of pollution	2
	Earth systems	TN
	Users	For use by people without training
	EMF environment	Type B
	Protection for people	Isolated command body and insulated casing - class II insulation

Note:

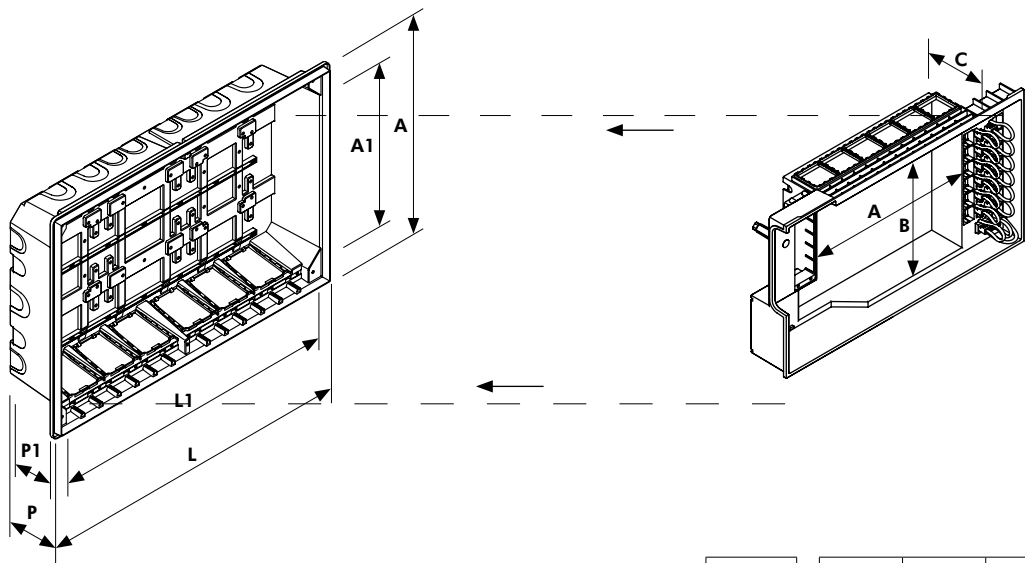
Should not be mounted in areas of special risk, such as, places subject to variations in temperature and high pressure, with strong magnetic fields, and atmospheres subject to explosions, fires or vibrations and exceptional voltage fluctuations.

DESCRIPTION



- 6 Coaxial Cable Outlets (CC).
- Up to 12 Copper Pair Outlets (PC).
- 8 Coaxial Cable Outlets (CC).
- Up to 24 Copper Pair Outlets (PC).
- 12 Coaxial Cable Outlets (CC).
- Up to 24 Copper Pair Outlets (PC).
- Optical fibre organiser with two SC/APC couplers.
- Space available for active equipment.
- Supplied with Schuko Socket.
- Supplied with Brass Terminal Earth Connection.
- White - RAL 9003.
- Reversible door.
- Rotary lever lock or keylock option.

DIMENSIONS (mm)

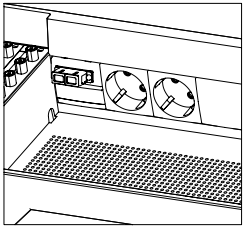
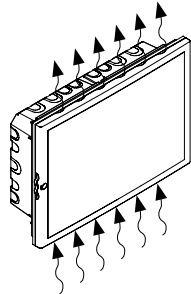


REF.	L (mm)	A (mm)	P (mm)	L1 (mm)	A1 (mm)	P1 (mm)
60048	552	380	113	530	313	92
60060	480	505	113	458	438	92

REF.	A (mm)	B (mm)	C (mm)
60048	273,5	220	100
60060	201,5	320	100

CHARACTERISTICS

- Heat dissipation capacity.
- Space available for housing active equipment.
- Possibility for multiple configurations through the installation of the QUADRO 45 series modules (45x45).



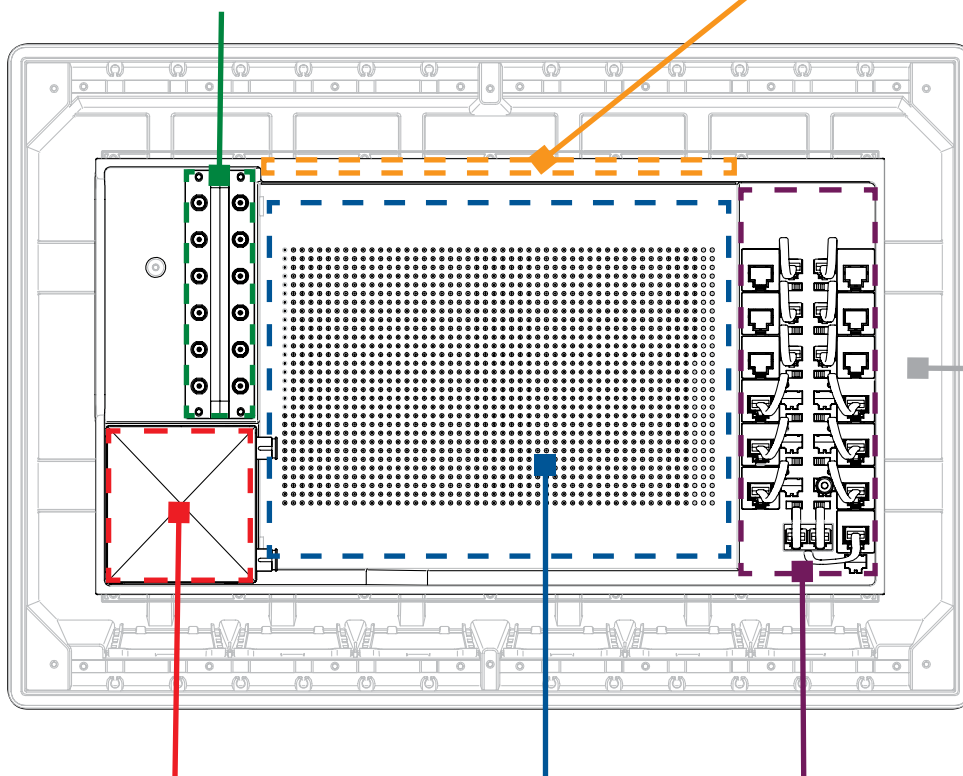
TELECOMMUNICATION PANELS - ATI

MOUNTING DIAGRAM

RC - CC (Client - Coaxial Cable Splitter)

Double coaxial splitter for sharing CATV and MATV / SMATV signal.

Zone for mounting semi-assembled QUADRO 45 series (45x45).



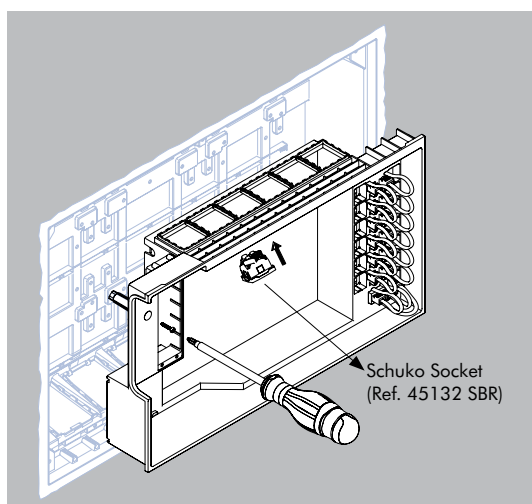
Space for cabling around the panel.

RC - FO (Client - Optical Fibre Splitter)

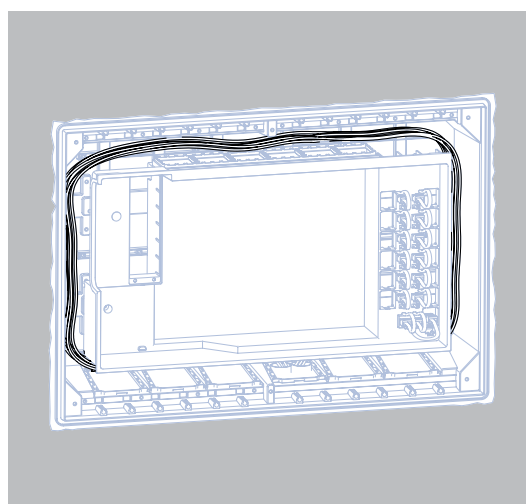
Easy access area for the housing of active equipment.

RC - PC (Client - Copper Pairs Splitter)
Allows the use of two separate ADSL services.

ATI INTERIOR FIXATION



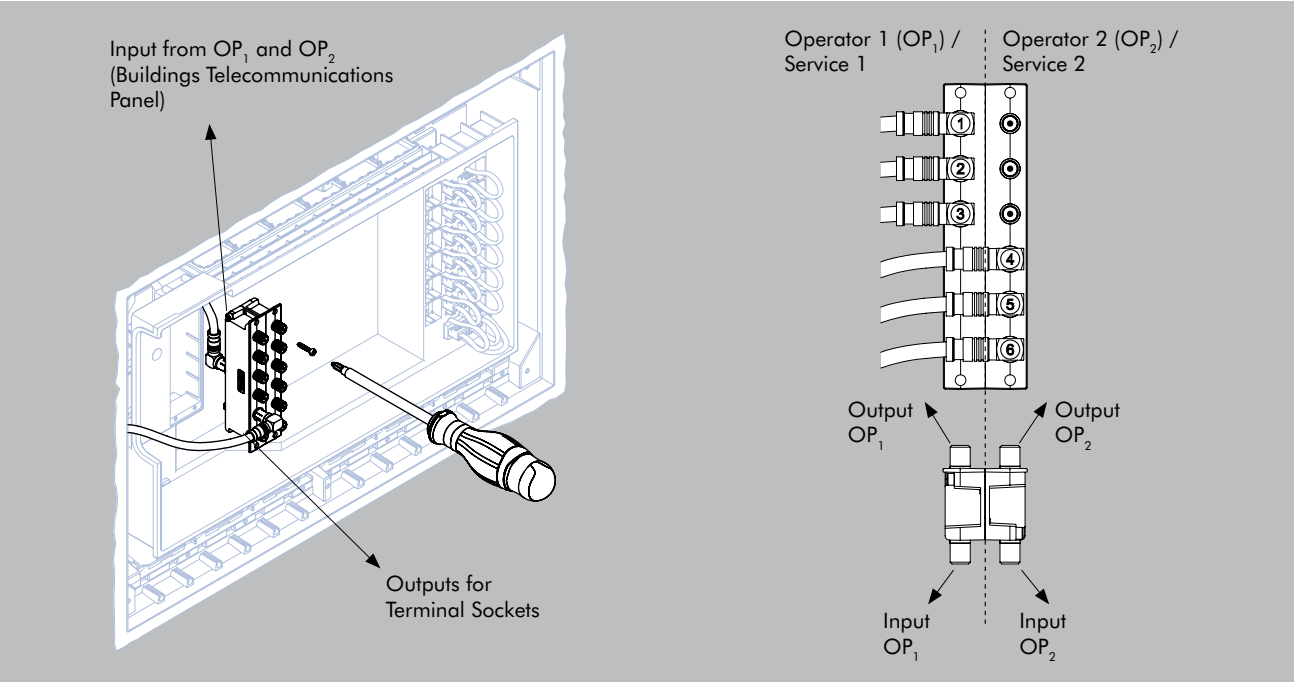
CABLE TIDYING



TELECOMMUNICATION PANELS - ATI

MOUNTING DIAGRAM

RC - CC (CLIENT - COAXIAL CABLE SPLITTER)

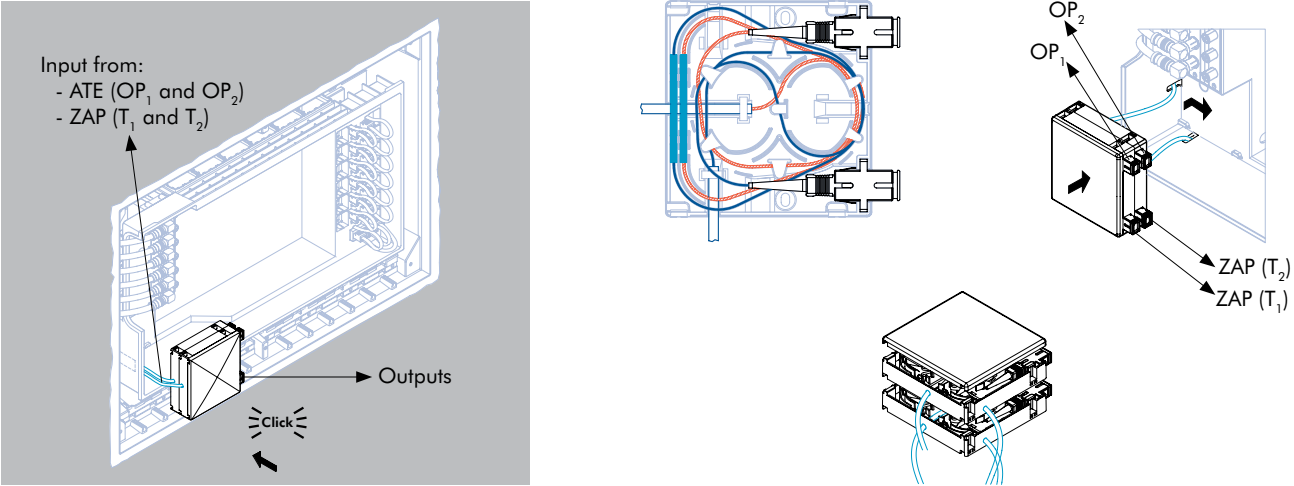


RC - CC (CLIENT - COAXIAL CABLE SPLITTER) - IMPEDANCE OF 75 Ohm

SPLITTER TYPE	CONNECTOR/ OUTPUTS	NUMBER OF OUTPUTS	INSERTION LOSSES dB (*)			ISULATION BETWEEN OUTPUTS (dB)	RETURN LOSS		DC PASSAGE OUTPUTS - INPUT
			5-1000 MHz	1000-2150 MHz	2150-2400 MHz		MHz	dB	
RC-CC6		6	11	14	15	> 20dB	5-40 40-1000 1000-1750 1750-2400	≥ 10,0 ≥ 13,0 ≥ 12,0 ≥ 11,0	SIM MÁX. 30V= 700mA
RC-CC8		8	12,5	15	16		5-40 40-1000 1000-1750 1750-2400	≥ 10,0 ≥ 12,0 ≥ 12,0 ≥ 10,0	
RC-CC12		12	15,5	19	21		5-40 40-300 300-1000 1000-1750 1750-2400	≥ 7,5 ≥ 8,5 ≥ 13,0 ≥ 12,0 ≥ 11,0	

(*) Nominal values (tolerance 2 dB)

RC - FO (CLIENT - OPTICAL FIBRE SPLITTER)

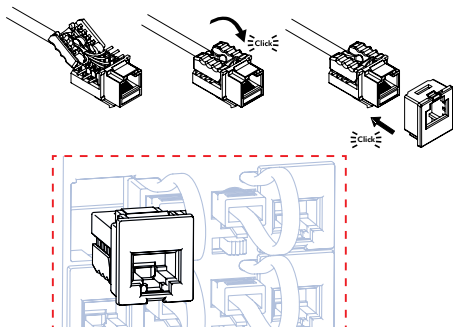


TELECOMMUNICATION PANELS - ATI

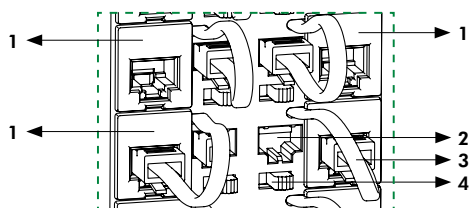
MOUNTING DIAGRAM

RC - PC (CLIENT - COPPER PAIRS SPLITTER)

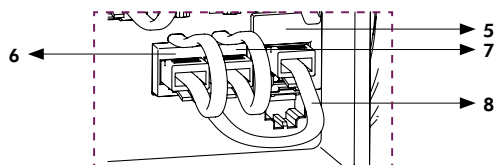
SECTION A



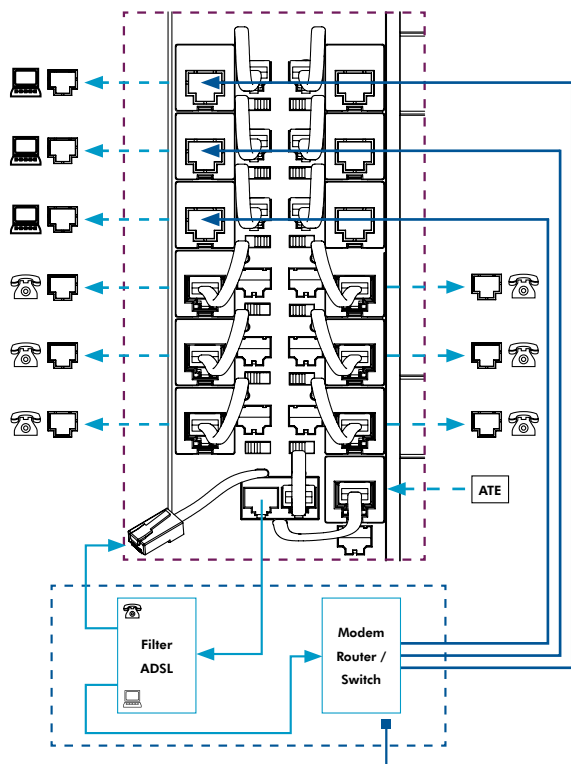
SECTION B



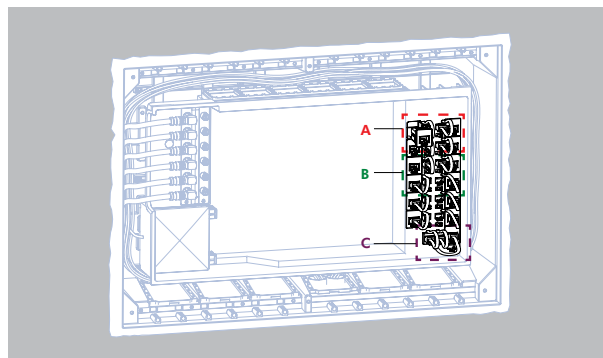
SECTION C



INTERNET CONNECTION

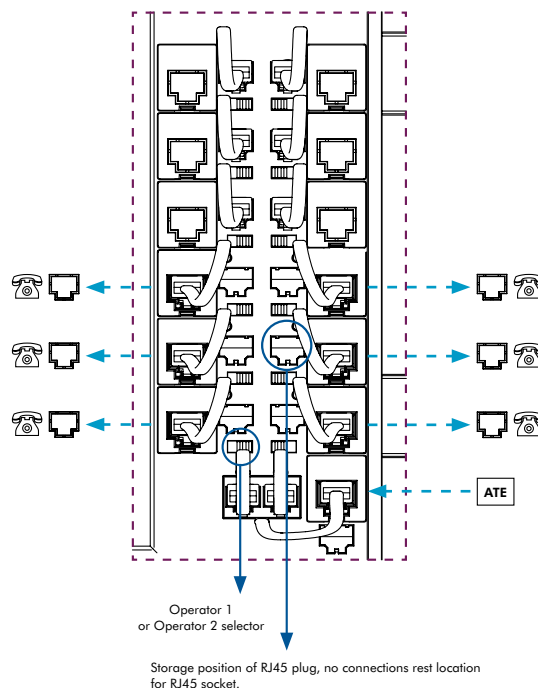


Active equipment to be housed inside the ATI

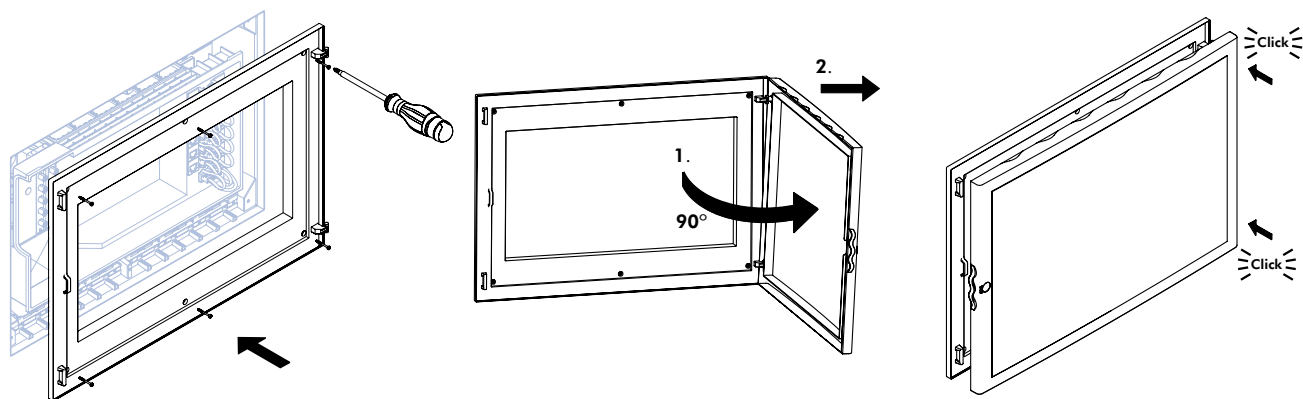


1. RJ45 plug, where the cable coming from the house telecommunications sockets is connected.
2. RJ45 plug holder dock.
3. Wire with RJ45 plugs with the telephone signal for operator 1 or operator 2 depending on the selector position. (Secondary)
4. Telephone operator selector.
5. RJ45 connector, where the connection to the cable is made (Primary):
 - Operator 1 on pair 4-5;
 - Operator 2 on pair 6-3.
6. Operator 1.
7. Operator 2.
8. RC - PC input through a RJ45 plug.

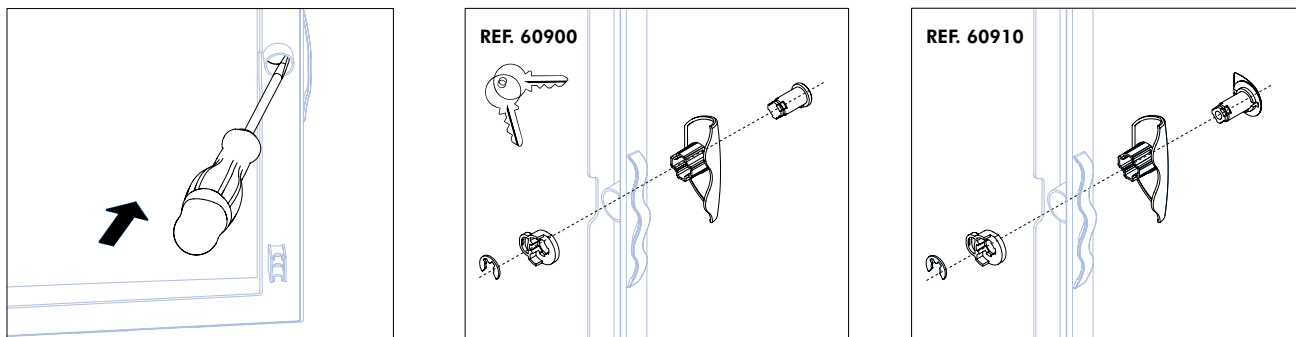
TELEPHONE DISTRIBUTION

Operator 1
or Operator 2 selectorStorage position of RJ45 plug, no connections rest location
for RJ45 socket.

ASSEMBLY AND DISMANTLING OF THE DOOR FRAME AND DOOR



ASSEMBLY OF THE ROTARY LEVER LOCK AND KEYLOCK



■ CLASSIFICATION - EN 62208 STANDARD

SECTION 4	CLASSIFICATION	PANELBOARDS
a	Type of material	Insulating
b	Means of fixing	Recessed mounting
c	Installation location	Not for installation in hollow walls
d	Protection degree	Interior
e	Isolation voltage	IP20 in accordance with IEC 60529
		IK07 in accordance with IEC 62262
		Ui=400V; nominal intensity: In ≤ 63A with 230/400 V

SECTION 6.3	DOCUMENTATION	PANELBOARDS
	Permissible loads	Maximum permissible load within the housing is 200 kg/m³.
	Lifting devices, where necessary	Do not apply loads to the cover.
	Devices for protection from electric shock	Not applicable
	Applicable conditions of use	Not applicable, plastic casing
	Data on ability to dissipate thermal energy	Interior installation: Temperatures between -5° C and +40° C
		Maximum interior thermal charge 40W

MINIATURE CIRCUIT BREAKERS (MCB)

DESCRIPTION



■ In accordance with european and international standards:

- **EN 60898-1 | IEC 60898-1**: "Circuit Breakers for Overcurrent Protection for household and similar installations".



■ Installation in DIN rail track, in Panelboards.

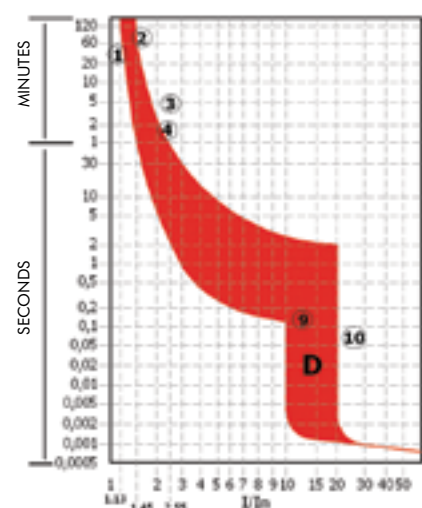
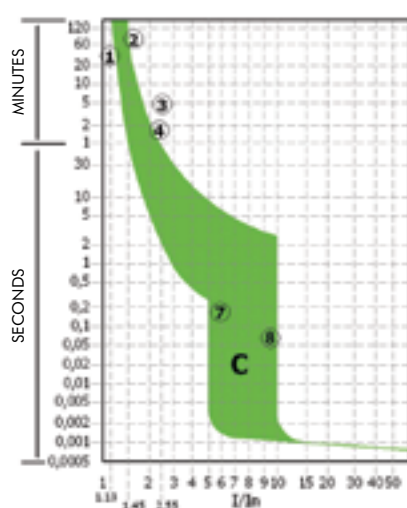
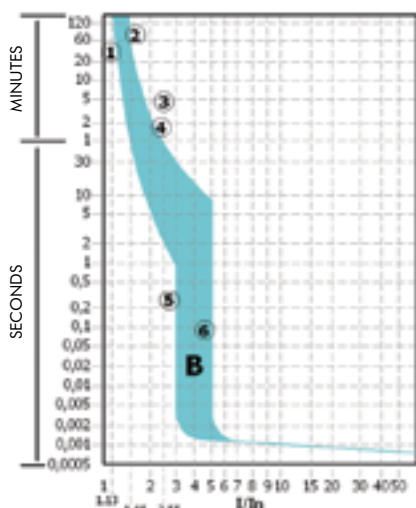
OPERATION

- Magnetic operation.
- Thermal operation.

CHARACTERISTICS

- Number of poles: 1; 1P+N; 2; 3; 4.
- Voltage: 230/400V.
- Rated current: 1; 2; 3; 4; 6; 10; 16; 20; 25; 32; 40; 50; 63.
- Tripping curves: B; C; D.
- Breaking capacity (Icn): 4,5kA; 6kA; 10kA.
- Frequency: 50/60Hz.
- Energy limitation class: 3.
- Maximum voltage pulse: 6,2KV.
- Mechanical useful life: >20000 cycles.
- Electrical useful life: >8000 cycles.
- Connection by "U" Type Busbar.
- Connection by Pin Type Busbar.
- Terminals capacity: 25mm².
- Terminals height: 19mm.
- Maximum tightening torque: 2,0Nm.
- Mounting on symmetrical 35mm DIN rail track.
- Ambient temperature: -5°C a 40°C.

TRIPPING CURVES



MINIATURE CIRCUIT BREAKERS (MCB)

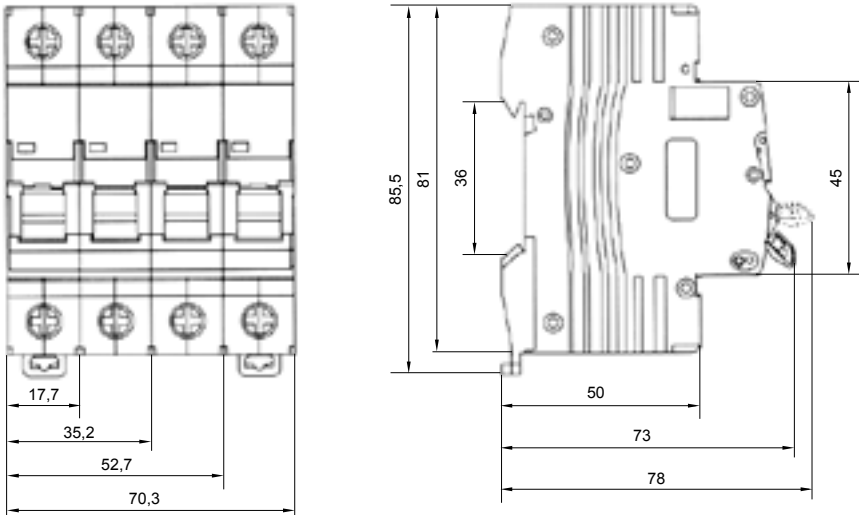
OPERATING TIME WHEN OPERATING IN OVERLOAD:

CURRENT	OPERATING TIME	ZONE
1,13 In	T ≥ 1 HOUR	①
1,45 In	T < 1 HOUR	②
2,55 In	In ≤ 32A ⇒ t < 60 SEC.	③
	In > 32A ⇒ t < 120 SEC.	④

OPERATING TIME WHEN OPERATING IN SHORT-CIRCUIT:

TRIPPING CHARACTERISTICS	CURRENT	OPERATING TIME	ZONE	USE
B	3 In	t ≥ 0,1 SEC.	⑤	PROTECTION OF ELECTRICAL CIRCUITS WITH RESISTIVE LOADS.
	5 In	t < 0,1 SEC.	⑥	
C	5 In	t ≥ 0,1 SEC.	⑦	CIRCUITS PROTECTION OF GENERAL USE.
	10 In	t < 0,1 SEC.	⑧	
D	10 In	t ≥ 0,1 SEC.	⑨	PROTECTION OF ELECTRICAL CIRCUITS WITH LOADS THAT PRODUCE CURRENT PEAK.
	20 In	t < 0,1 SEC.	⑩	

DIMENSIONS (mm)



RESIDUAL CURRENT CIRCUIT BREAKER (RCCB)

DESCRIPTION



■ In accordance with european and international standards:

– EN 61008-1 | IEC 61008-1: "Residual Current Circuit Breaker (RCCB)"



■ Installation in DIN rail track, in Panelboards.

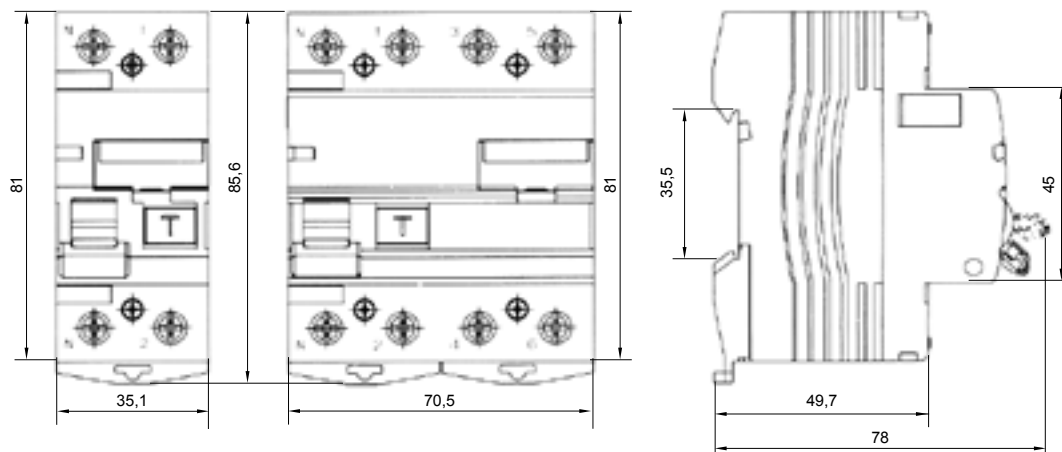
OPERATION

■ Differential operation.

CHARACTERISTICS

- Number of poles: 1P+N; 3P+N.
- Voltage: 240/415V.
- Rated current (A): 16; 25; 40; 63.
- Class: A; AC.
- Sensitivity ($I_{\Delta n}$): 0,01A; 0,03A; 0,3A; 0,5A.
- Breaking capacity (I_{cn}): 10kA.
- Frequency: 50/60Hz.
- Non-operating current: $0,5I_{\Delta n}$.
- Operating current: $0,5\Delta n$ a $I_{\Delta n}$.
- Tripping time: <0,1 Seg..
- Electrical-mechanical useful life: >4000 ciclos.
- Connection by "U" Type Busbar.
- Connection by Pin Type Busbar
- Terminals capacity: 25mm².
- Terminals height: 19mm.
- Maximum fightening torque: 2,0Nm.
- Mounting on symmetrical 35mm Din rail track.

DIMENSIONS (mm)



RESIDUAL CURRENT CIRCUIT BREAKER WITH OVERCURRENT PROTECTION (RCBO)

DESCRIPTION



- In accordance with european and international standards that rule these type of products:
- EN 61009-1 | IEC 61009-1: "Residual Current Circuit Breaker with Overcurrent Protection (RCBO)"



- Installation in DIN rail track, in Panelboards.

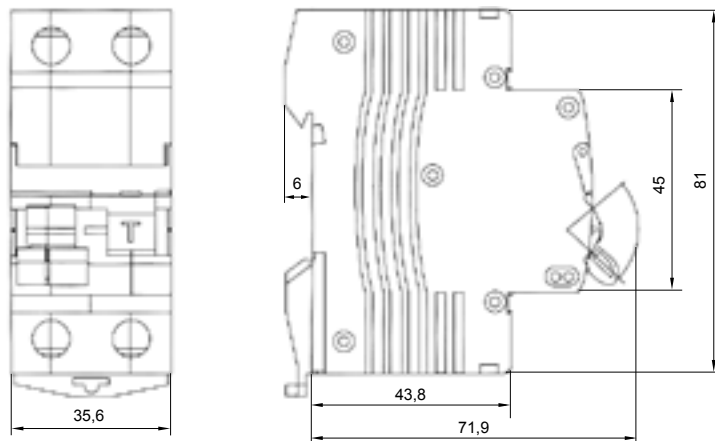
OPERATION

- Thermal magnetic operation.
- Differential operation.

CHARACTERISTICS

- Number of poles: 1P+N.
- Voltage: 240V.
- Rated current (A): 6; 10; 16; 20; 25; 32; 40.
- Class: AC.
- Curve: C.
- Sensitivity ($I_{\Delta n}$): 0,03A.
- Breaking capacity (I_{cn}): 6kA.
- Frequency 50/60Hz.
- Tripping time: <0,1 Seg..
- Electrical-mechanical useful life: >4000 ciclos.
- Connection by "U" Type Busbar.
- Connection by Pin Type Busbar.
- Terminals capacity: 16mm² (rigide wire) 10mm² (flexible wire).
- Maximum tightening torque: 2,0Nm.
- Mounting on symmetrical 35mm DIN rail track.

DIMENSIONS (mm)



OVER-VOLTAGE AND SURGE PROTECTION DEVICES (SPD)

(REF. 55410 1DC | 55420 1DC | 55440 1DC | 55460 1DC)

DESCRIPTION



■ In accordance with european and international standards:

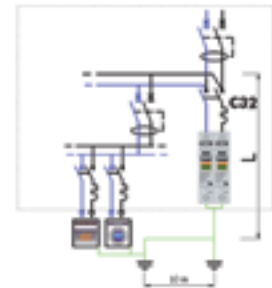
– IEC 61643-1: “Dispositivos de Proteção contra Sobretensões”.



■ Installation in DIN rail track, in Panelboards.

OPERATION

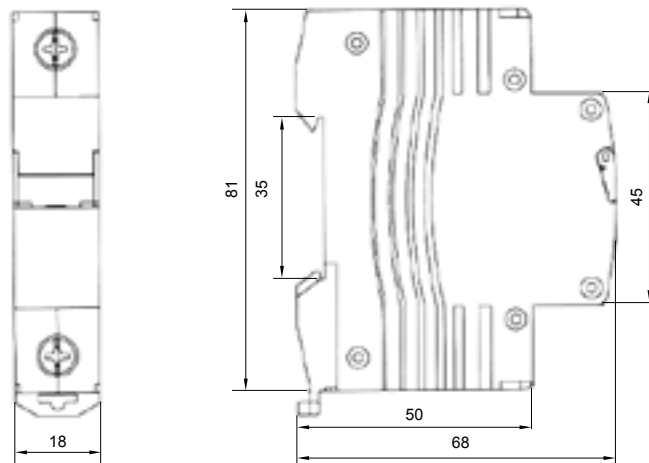
- The correct operation and performance of the SPDs is assured when the ground installation is made in accordance with the official electrical codes, rules and prescriptions determined by the government or by the official entities.
- The total length of the connection cables to the SPDs (L) must be as short as possible (<0,5m).
- It must be avoided to make derivations in the circuit of the SPDs. With currents up to 50A, the derivations must be made over the same terminals of the SPDs.
- The circuit where the SPDs are connected must be protected against overloads and short circuits. It is recommended the use of a MCBs of 32 - C Curve (C32).
- If the installation has different protection levels against over voltages, it is recommended that the length of the cable that connects the main SPDs with a secondary SPDs is ≥ 1 m, in order to avoid simultaneous conduction of both devices.



CHARACTERISTICS

- Number of poles: 1.
- Type: I.
- Rated Voltage: 230V~ (Red, Yellow and Grey) / 380V~ (Brown).
- Maximum continuous operating voltage: 320V~ (Red, Yellow e Grey) / 420V~ (Brown).
- Protection level (8/20 μ sec): 1,0kVp (Red); 1,2kVp (Yellow); 1,5kVp (Grey); 2,0kVp (Brown).
- Rated discharge current (8/20 μ sec): 5kA (Red); 10kA (Yellow); 20kA (Grey); 30kA (Brown).
- Maximum discharge current (8/20 μ sec): 10kA (Red); 20kA (Yellow); 40kA (Grey); 60kA (Brown).
- Response time: <25ns.
- Operation temperature: -40°C a +80°C.
- Terminals capacity: 1x25mm².
- Protection Index: IP20.

DIMENSIONS (mm)



SWITCHES

DESCRIPTION



- In accordance with european and international standards:
 - EN 60947-3 | IEC 60947-3: "Fuse Switch Disconnecter".



- Installation in DIN rail track, in Panelboards.

OPERATION

- Operation as disconnecter switch.
- Indication of contact position.
- Ability to quickly dissipate energy stored during cutting.
- High resistance to short-circuit current.

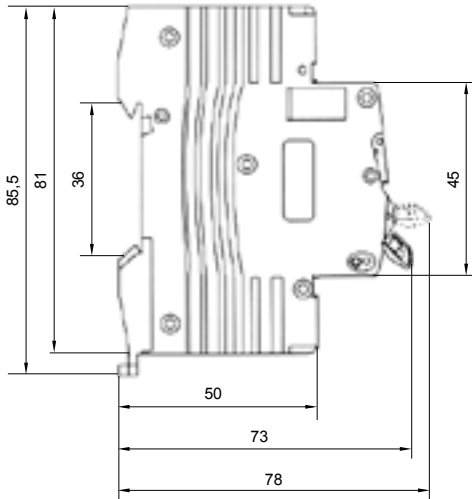
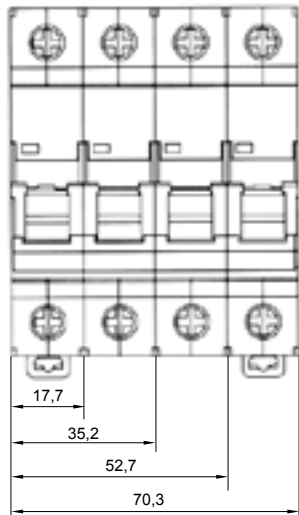
CHARACTERISTICS

- Number of poles: 1, 2, 3, 4
- Rated voltage (V): 230/400 V~
- Rated current (A): 25; 32; 40; 63; 80; 100.
- Frequency: 50/60Hz.
- Breaking capacity: 10kA.
- Mechanical/electrical useful life: 10000 cycles.
- Terminals capacity:
 - 25mm², for caliber of 25A, 32A, 40A, and 63A
 - 50mm², for caliber of 80A and 100A

NOTAS:

- Installation room temperature -5°C to 40°C (average temperature must not exceed 35°C).
- Humidity must not exceed 50% to 40°C or 90% at 25°C.
- The device must be installed vertically in a place free from impacts and heavy vibrations.
- The device is on when the lever is in the up position (red indicator).

DIMENSIONS (mm)



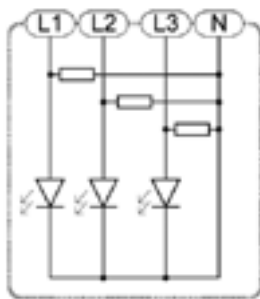
3-PHASE VOLTAGE INDICATOR (REF. 55009)

DESCRIPTION



- Indicates presence of three-phases voltage.
- Installation in DIN rail track, in Panelboards.

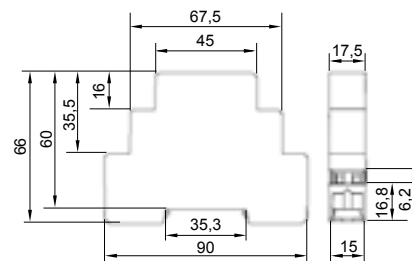
CIRCUIT DIAGRAM



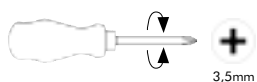
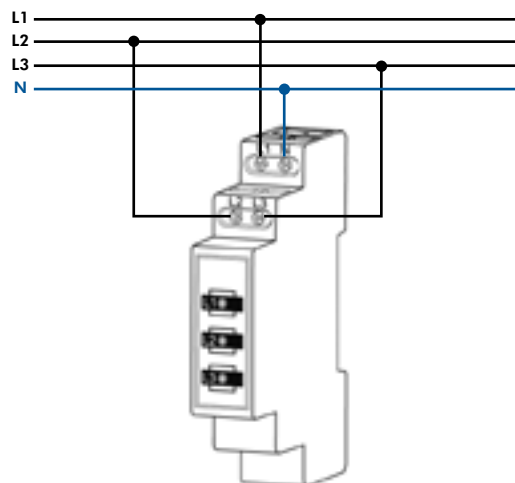
CHARACTERISTICS

- Voltage: 230/400V~
- Consumption: 6mA
- Frequency: 50/60Hz
- Cables section: 0,2 - 2,5mm²
- Protection index: IP20.
- Insulation class: II

DIMENSIONS (mm)



WIRING DIAGRAM



3,5mm



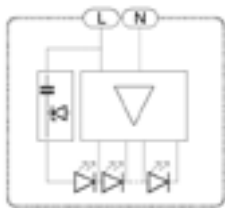
1-PHASE VOLTAGE VALUE INDICATOR (REF. 55010)

DESCRIPTION

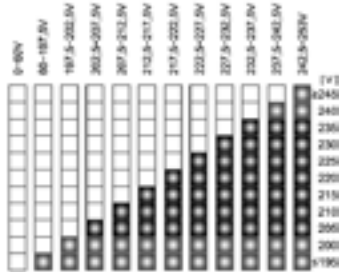


- Indicates phase voltage value.
- Installation in DIN rail track, in Panelboards.

CIRCUIT DIAGRAM



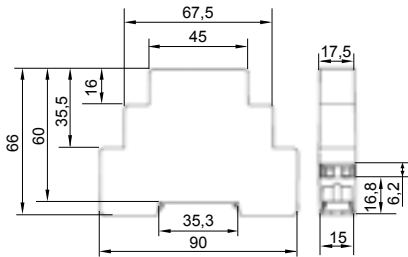
VOLTAGE LEVELS



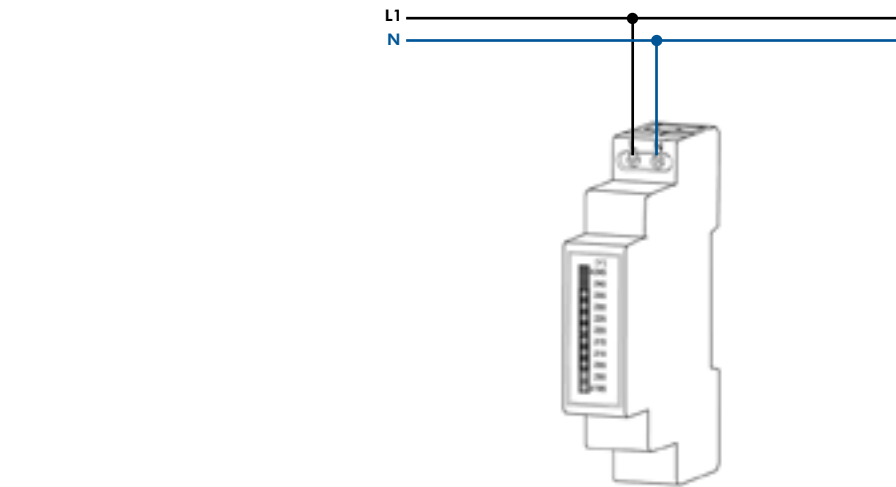
CHARACTERISTICS

- Voltage: 230V~
- Consumption: 24mA
- Frequency: 50/60Hz
- Cables section: 0,2 - 2,5mm²
- Protection Index: IP20.
- Insulation Class: II

DIMENSIONS (mm)



WIRING DIAGRAM



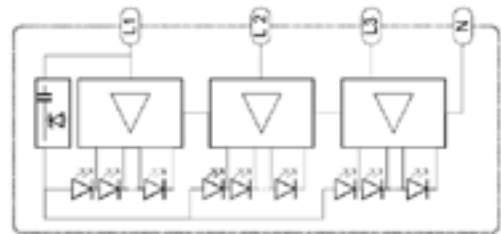
3-PHASE VOLTAGE VALUE INDICATOR (REF. 55011)

DESCRIPTION

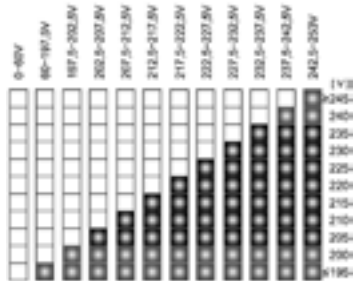


- Indicates three-phase voltage value.
- Instalation in DIN rail track, in Panelboards.

CIRCUIT DIAGRAM



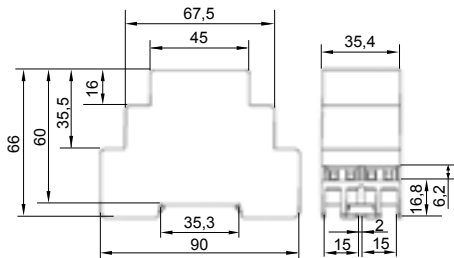
VOLTAGE LEVELS



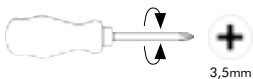
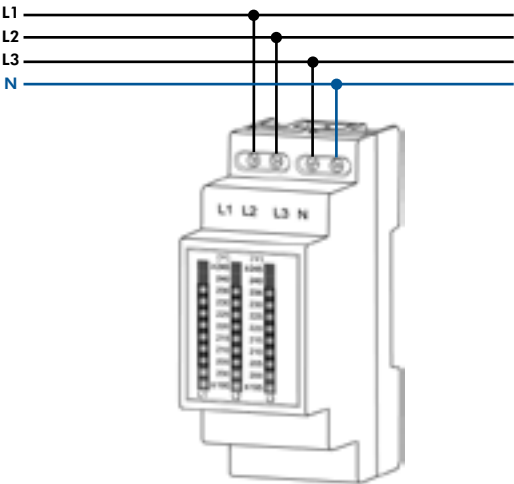
CHARACTERISTICS

- Voltage: 230/400V~
- Consumption: 68mA
- Frequency: 50/60Hz
- Cables section: 0,2 - 2,5mm²
- Protection Index: IP20.
- Insulation Class: II

DIMENSIONS (mm)



WIRING DIAGRAM



ELECTRONIC STAIRCASE TIME-DELAY SWITCH 16A (REF. 55030)

DESCRIPTION

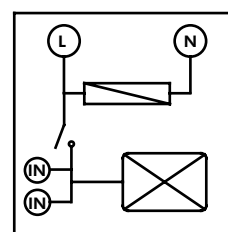


- Enables to connect and disconnect a lighting installation after a programmed time-delay.
- The activation is made by the use of Push-buttons, Rocker Push-buttons or Rocker Push-buttons with Orienting Light according to the 3 wires diagram.
- Installation in DIN rail track, in Panelboards.

OPERATION



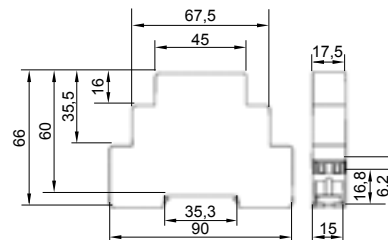
CIRCUIT DIAGRAM



CHARACTERISTICS

- Voltage: 230V~.
- Consumption: 48mA.
- Frequency: 50/60Hz.
- Time adjustment: 10 seg. - 10 min.
- Output: 1NA - 16A/250V~ 4000VA.
- Cables section: 0,2 - 2,5mm².
- Protection Index: IP20.
- Insulation Class: II.

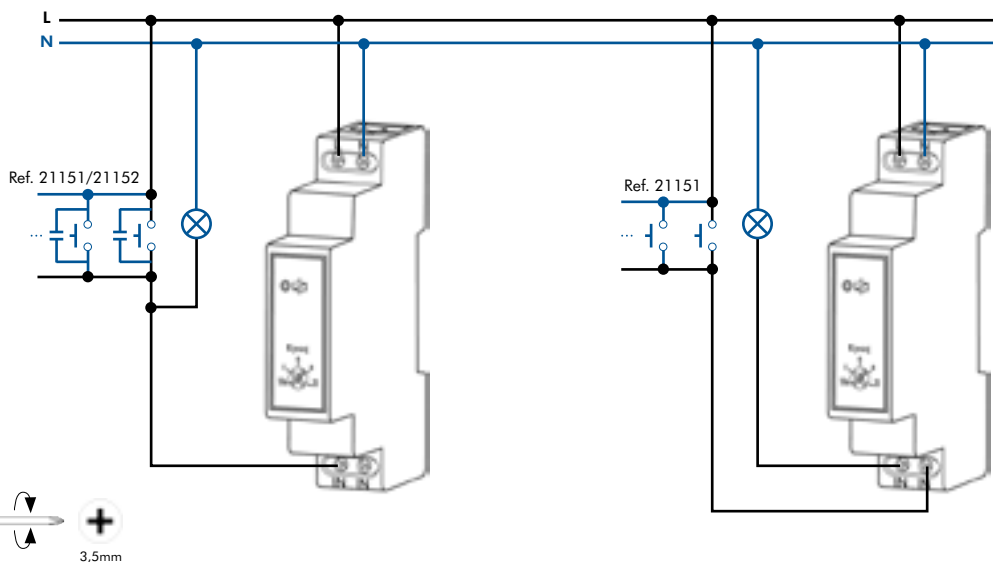
DIMENSIONS (mm)



WIRING DIAGRAMS

■ With 3 wires.

■ With 4 wires.



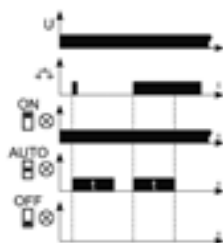
DIN TH 35

DESCRIPTION

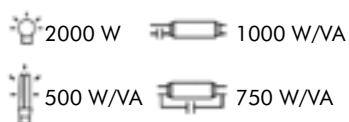


- Enables to connect and disconnect a lighting installation after a programmed time-delay.
- The activation is made by the use of Push-buttons, Rocker Push-buttons or Rocker Push-buttons **without Orienting Light**.
- Instalation in DIN rail track, in Panelboards.

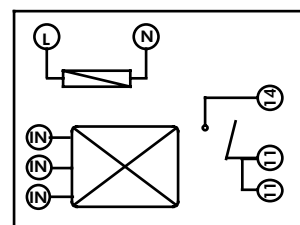
OPERATION



MAXIMUM RECOMMENDED LOAD



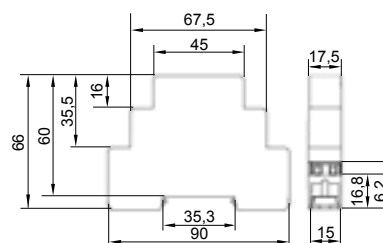
CIRCUIT DIAGRAM



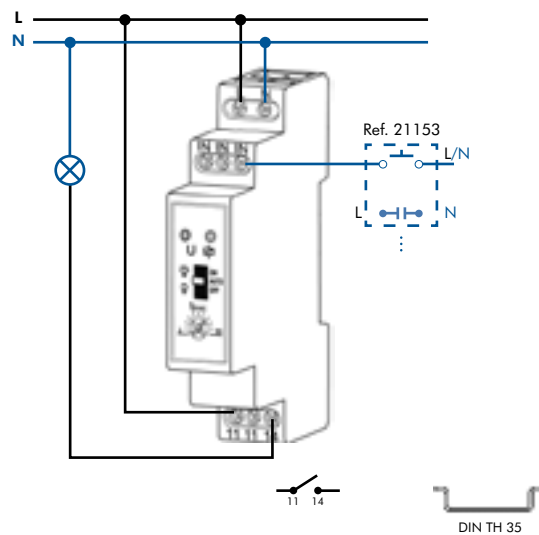
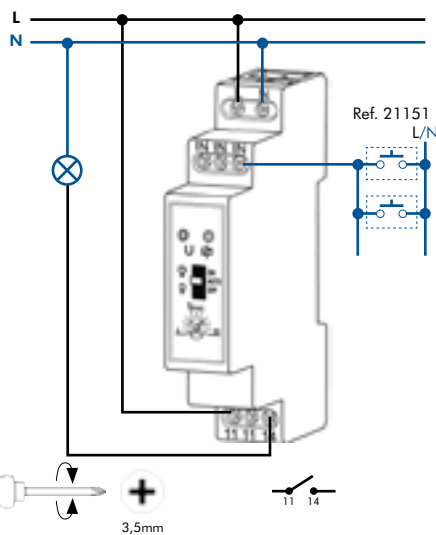
CHARACTERISTICS

- Voltage: 230V~.
- Consumption: 25mA.
- Frequency: 50/60Hz.
- Time adjustment: 3 - 30 min.
- Current control: 300μA.
- Output: 1NA - 16A/250V~ 4000VA.
- Cables section: 0,2 - 2,5mm².
- Protection Index: IP20.
- Insulation Class: II.
- Maximum leakage current: 200μA.

DIMENSIONS (mm)



WIRING DIAGRAMS



STAIRCASE TIME-DELAY SWITCH 10A (REF. 55510 SPA)

DESCRIPTION



- Enables to connect and disconnect a lighting installation after a programmed time-delay.
- The activation is made by the use of Push-buttons, Rocker Push-buttons or Rocker Push-buttons with Orienting Light.
- Instalation in DIN rail track, in Panelboards.

OPERATION

- By pressing the button, the load stays on as long as the time programmed in the device.

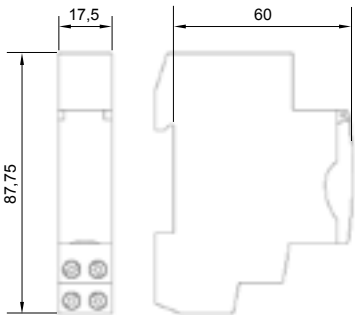
MAXIMUM RECOMMENDED LOAD

	3000 W		2000 W/VA
	500 W/VA		3000 W
	500 W/VA		500 W/VA

CHARACTERISTICS

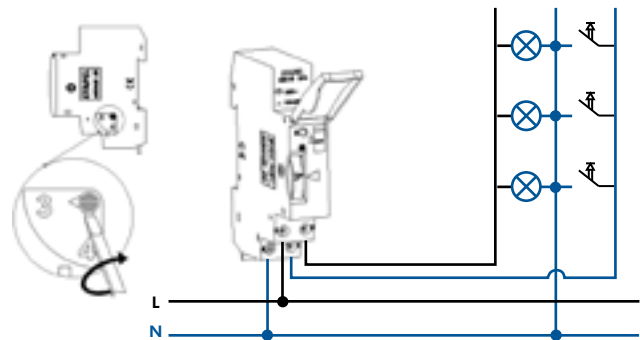
- 230V~ - 50/60Hz.
- Breaking capacity: 10A.
- Time adjustment: 45 seconds to 7 minutes.
- Dimension: 1 Módulo DIN.
- Operating tempeure: -10°C a 60°C.
- Protection Index: IP20.
- Maximum leakage current: 50mA.

DIMENSIONS (mm)

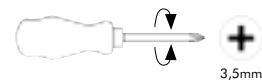
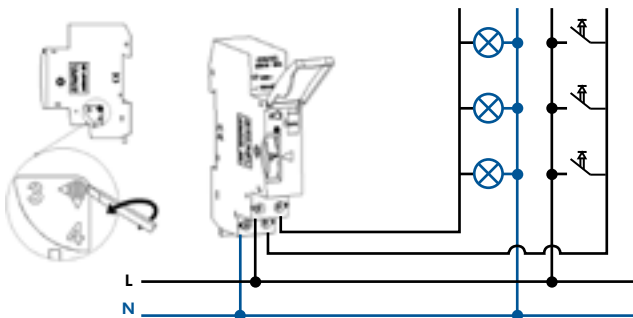


WIRING DIAGRAMS

- With 3 wires.



- With 4 wires.



DESCRIPTION

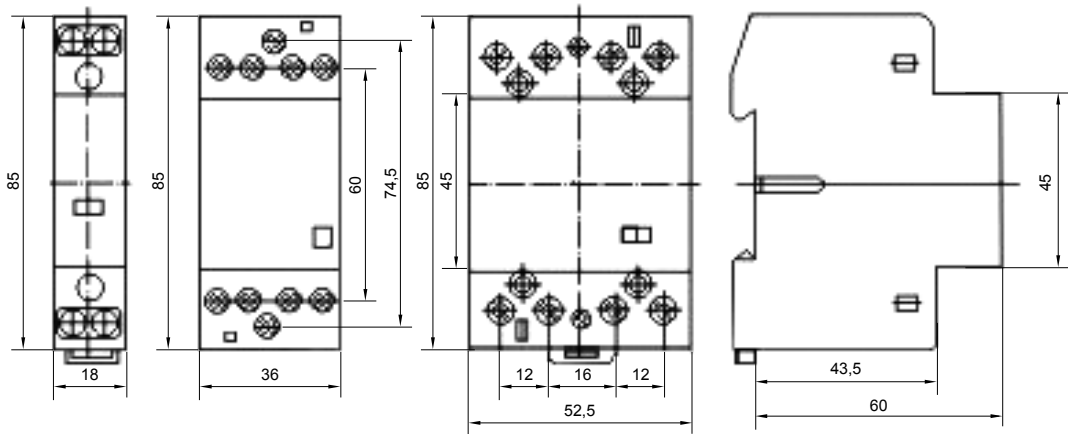


- Enables to control a specific load that needs a High Rated Current through a command that has a low breaking capacity, creating a separation of the high power circuit from the command circuit.
- Installation in DIN rail track, in Panelboards.
- In accordance with european and international standards:
 - IEC/EN 61095 | IEC/EN 60947-4-1

CHARACTERISTICS

	55020 2NA 55020 2NF 55020 2AF 55020 2MA 55050 2MF	55025 4NA 55025 4NF	55063 4NA 55063 4NF
GENERALES CHARACTERISTICS			
Number of modules	1 Módulo	2 Módulos	3 Módulos
Insulation Class	IP20		
Ambient temperature	-5°C a 40°C		
CHARACTERISTICS OF CONTACT			
Number of poles	2P	4P	4P
Type of contacts	NO - Normally Open / NC - Normally Closed OC - Normally Open + Normally Closed / MO - Normally Open Manual MC - Normally Closed Manual		
Rated voltage	230V~	230/400V~	
Frequency	50/60Hz		
Insulation voltage	400V~		
Breaking capacity	20A	25A	63A
Mechanical/electrical lifetime	150.000		
Category	AC-1 / AC7a - 4 kW	AC-1 / AC-7a - 16 kW AC-3 / AC-7b - 4 kW	AC-1 / AC-7a - 40 kW AC-3 / AC-7b - 15 kW
Terminals Capacity	10mm²	25mm²	
CHARACTERISTICS OF THE COIL			
Rated voltage	230V~		
Frequency	50/60Hz		
Terminals Capacity	2.5mm²		

DIMENSIONS (mm)



FUSE HOLD SWITCH 10X38 (REF. 55545)

DESCRIPTION



- In accordance with european and international standards:
 - EN 60947-3 | IEC 60947-3
- Installation in DIN rail track, in Panelboards.

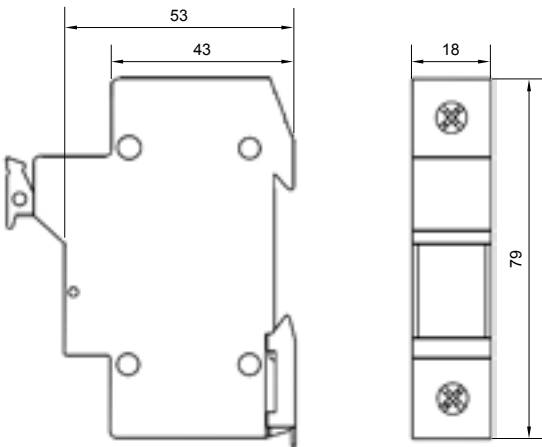
OPERATION

- Operation as fuse hold switch.

CHARACTERISTICS

- Number of poles: 1P.
- Rated voltage (V): 230 V~.
- Rated current max. (A): 32A.
- Fuse type: 10x38.
- Frequency: 50/60Hz.
- Insulation voltage: 600V.

DIMENSIONS (mm)



ELECTRONIC LATCHING RELAY 16A (REF. 55017)

DESCRIPTION

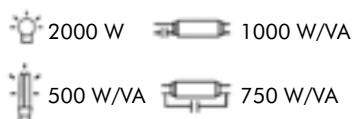


- Enables to connect and disconnect a lighting installation using Rocker Push-buttons.
- Installation in DIN rail track, in Panelboards.

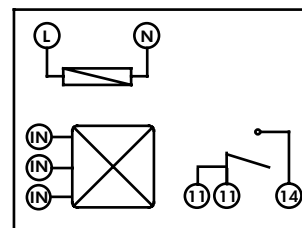
OPERATION



MAXIMUM RECOMMENDED LOAD



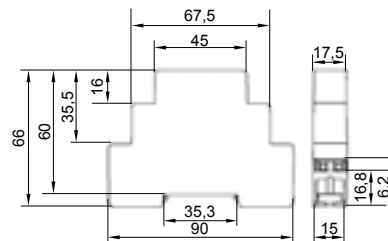
CIRCUIT DIAGRAM



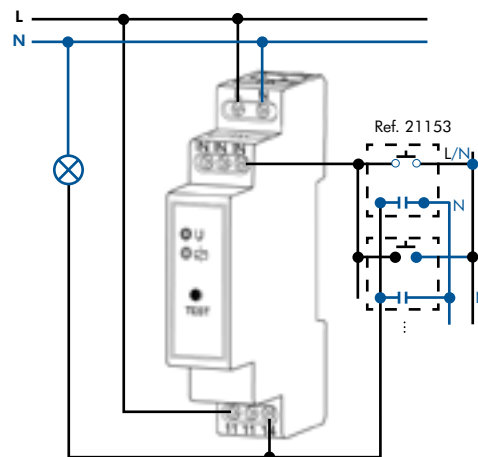
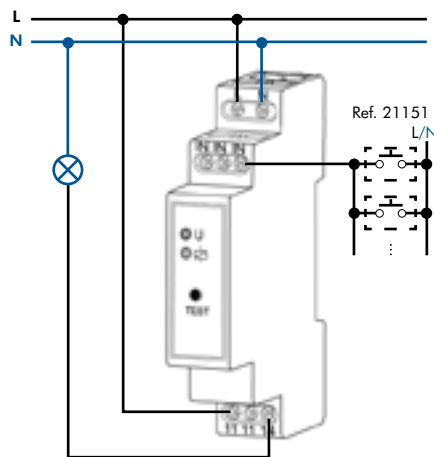
CHARACTERISTICS

- Voltage: 230V~.
- Consumption: 24mA.
- Frequency: 50/60Hz.
- Control current: 930μA.
- Output: 1NO - 16A/250V~ 4000VA.
- Cables section: 0,2 - 2,5mm².
- Protection Index: IP20.
- Insulation Class: II.

DIMENSIONS (mm)



WIRING DIAGRAMS



3,5mm



11 14



ΣI_N≤200μA



11 14



DIN TH 35

ANALOGUE DAILY 1 CHANNEL TIME SWITCH (REF. 55501 ANL)

DESCRIPTION

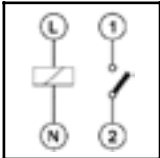


- Enables to control the operation of an electric installation or an equipment according to a daily program.
- The minimum time of a program is 15 minutes.
- Installation in DIN rail track, in Panelboards.

MAXIMUM RECOMMENDED LOAD

	2500 W		1000 W
	1200 W/VA		900 W/VA
	2000 W/VA		1000 W/VA
	2500 W		

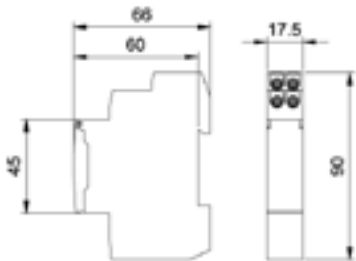
CIRCUIT DIAGRAM



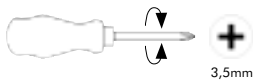
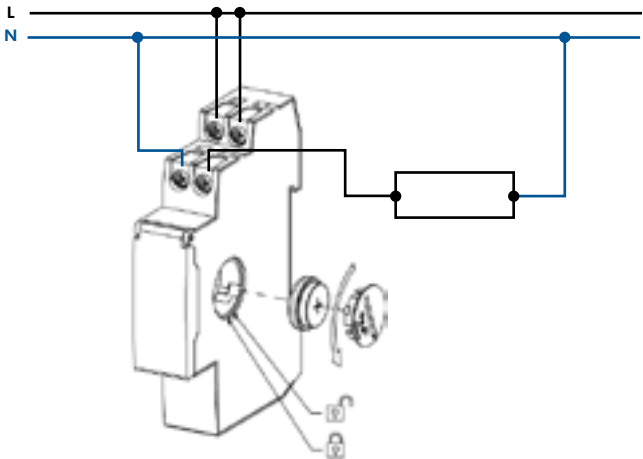
CHARACTERISTICS

- Voltage: 230V~
- Frequency: 50/60Hz
- Breaking capacity: 16(4)A
- Battery Back-up Time: NiMH - V80 H
- Precision: 1 sec./dia
- Programming time: 24 hours/15 minutes
- Consumption: 0,5W
- Operating temperature: -10°C - +45°C
- Protection Index: IP20.
- Insulation Class: II
- Power reserve: 150 hours after feeding for 120 hours.

DIMENSIONS (mm)



WIRING DIAGRAM

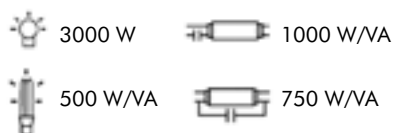


DESCRIPTION

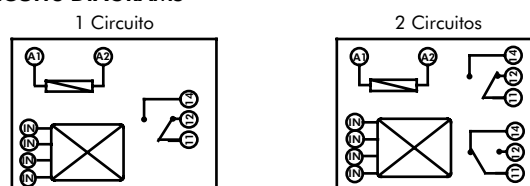


- Enables to control an installation or equipment according to a daily and/ or weekly programming.
- Installation in DIN rail track, in Panelboards.

MAXIMUM RECOMMENDED LOAD



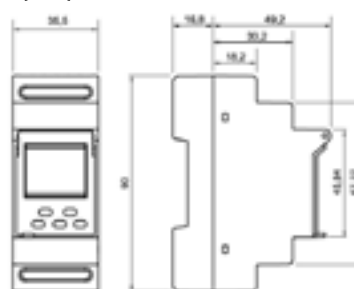
CIRCUITS DIAGRAMS



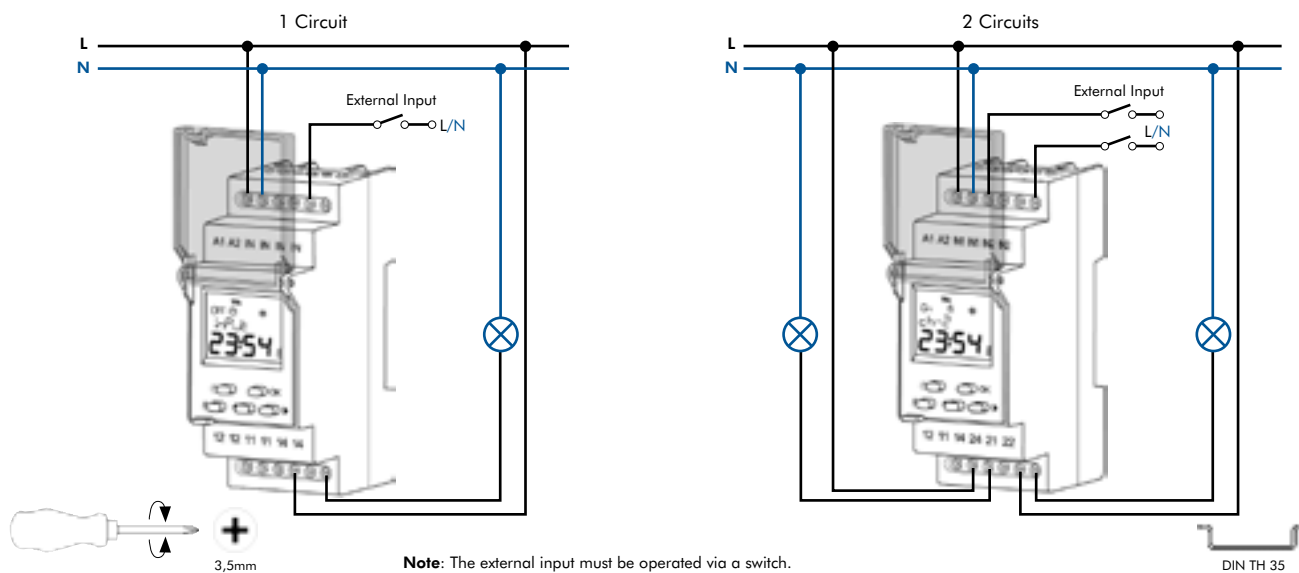
CHARACTERISTICS

- Voltage: 230V~
- Frequency: 50/60Hz
- 1 Circuito: 1NA + 1NF
- 2 Circuitos: 2NA + 2NF
- Memory capacity: 400
- Programming mode: daily/weekly
- Operation mode: manual, automatic, random, pulse
- Time change summer/winter: automatic, manual
- Operation temperature: -20°C - +60°C
- Cables section: 0,2 - 2,5mm²
- Protection Index: IP20.
- Insulation Class: II
- Power reserve: 3 years - hours/date;
10 years - programming.

DIMENSIONS (mm)



WIRING DIAGRAMS



DESCRIPTION

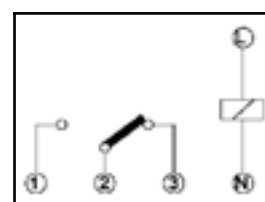


- Enables to control the operation of an electric installation or equipment according to a daily or weekly program.
- It has capacity for memorization of 32 operations.
- Automatic changeover of summer / winter time and possibility of downtime programming.
- Installation in DIN rail track, in Panelboards.

MAXIMUM RECOMMENDED LOAD

	3000 W		600 W/VA
	1200 W/VA		400 W/VA
	2000 W/VA		600 W/VA
	3000 W		

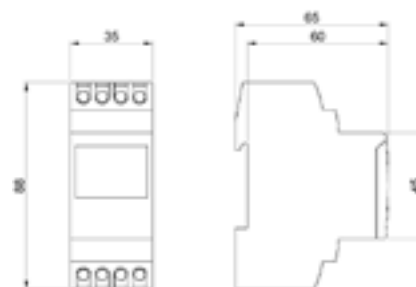
CIRCUIT DIAGRAM



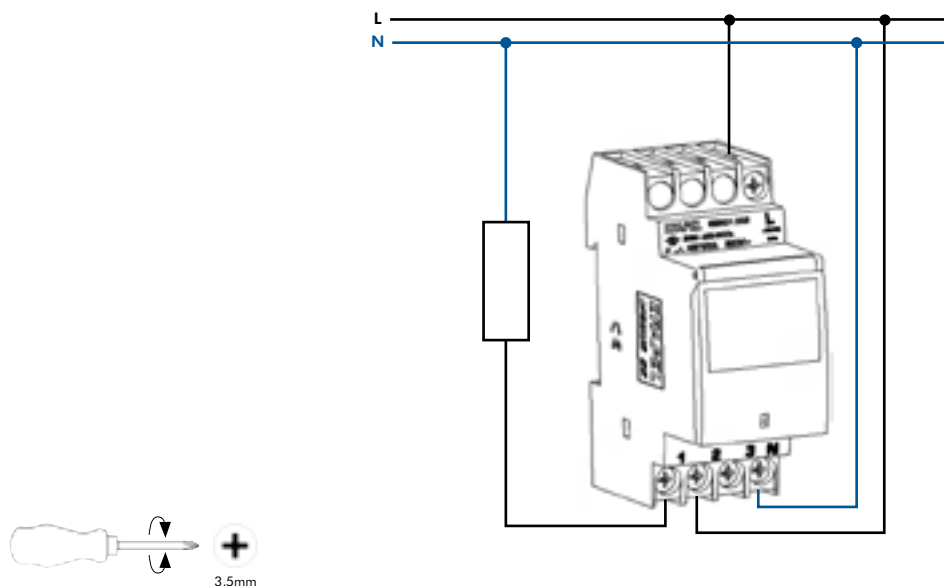
CHARACTERISTICS

- Voltage: 230V~
- Frequency: 50/60Hz
- Breaking capacity: 16(10)A
- Consumption: 1W (aprox.)
- Memory capacity: 32
- Output: ON, OFF and PULSE (1 to 59 sec.)
- Precision: 1 sec./day
- Operating temperature: -10°C - +50°C
- Protection Index: IP20.
- Insulation Class: II
- Power reserve: 4 years.

DIMENSIONS (mm)



WIRING DIAGRAM



DIN TH 35

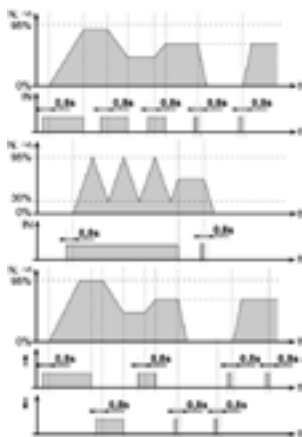
MODULAR ELECTRONIC DIMMER (REF. 55020)

DESCRIPTION

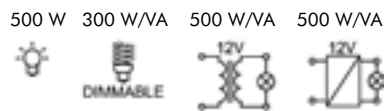


- Enables to adjust the luminous flux of one or more lamps with Rocker Push-buttons.
- Installation in DIN rail track, in Panelboards.

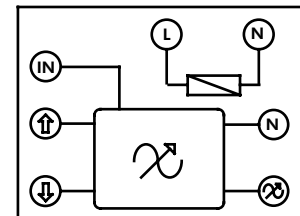
OPERATION



MAXIMUM RECOMMENDED LOAD



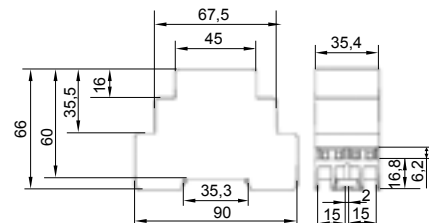
CIRCUIT DIAGRAM



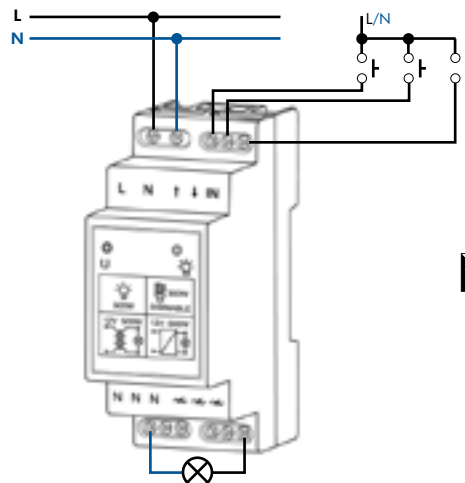
CHARACTERISTICS

- Voltage: 230V~.
- Consumption: 10mA.
- Frequency: 50Hz.
- Power output (load): 30 - 500W.
- Cables section: 0,2 - 2,5mm².
- Protection Index: IP20.
- Insulation Class: II.

DIMENSIONS (mm)



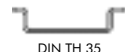
WIRING DIAGRAM



Phase-cut dimming in the reserve phase
"Trailing Edge"



$\Sigma I_n \leq 200 \text{ mA}$



DIN TH 35

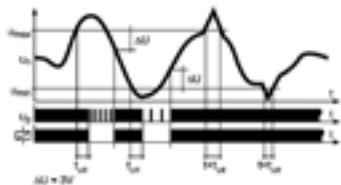
VOLTAGE CONTROL RELAY SINGLE PHASE (REF. 55024)

DESCRIPTION

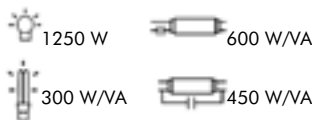


- Enables to control the voltage over a circuit.
- Installation in DIN rail track, in Panelboards.

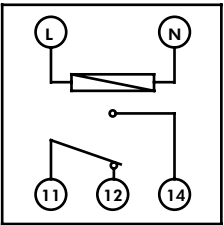
OPERATION



MAXIMUM RECOMMENDED LOAD



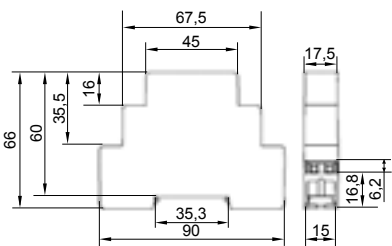
CIRCUIT DIAGRAM



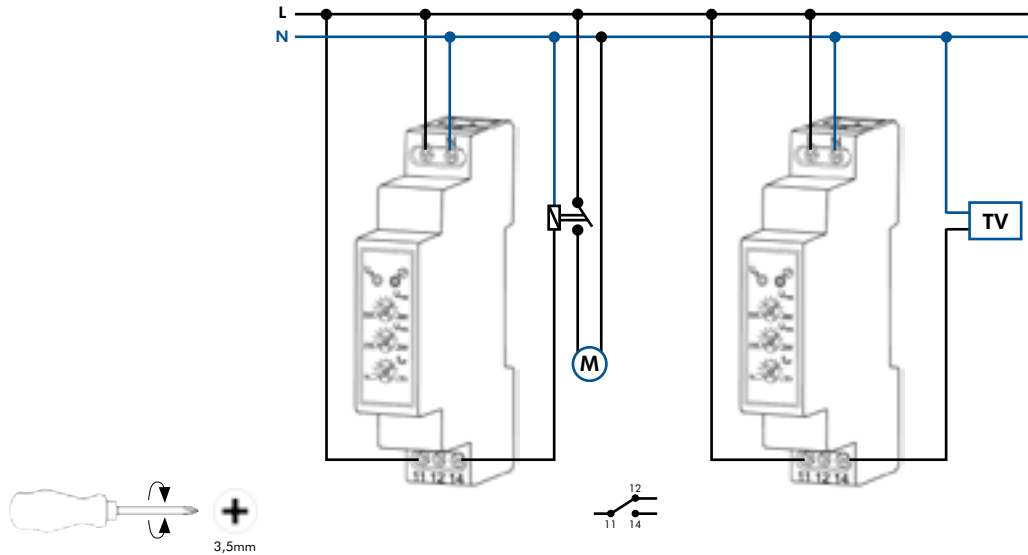
CHARACTERISTICS

- Voltage: 230V~.
- Consumption: 35mA.
- Frequency: 50/60Hz.
- Minimum voltage: 170 - 225V~.
- Maximum voltage: 235 - 290V~.
- Output: 1NO/NC - 10A/250V~ 2500VA.
- Cables section: 0,2 - 2,5mm².
- Protection Index: IP20.
- Insulation Class: II.

DIMENSIONS (mm)



WIRING DIAGRAMS



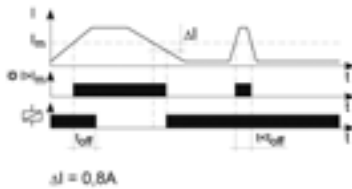
CURRENT CONTROL RELAY SINGLE PHASE 16A (REF. 55025)

DESCRIPTION

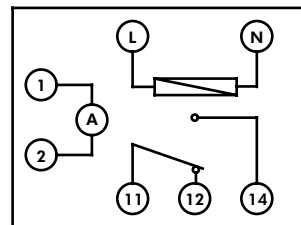


- Enables to control the current in a circuit.
- Installation in DIN rail track, in Panelboards.

OPERATION



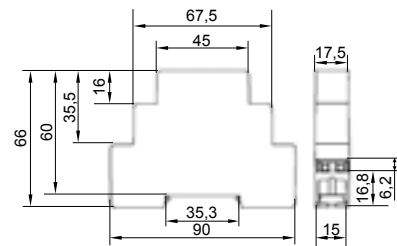
CIRCUIT DIAGRAM



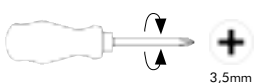
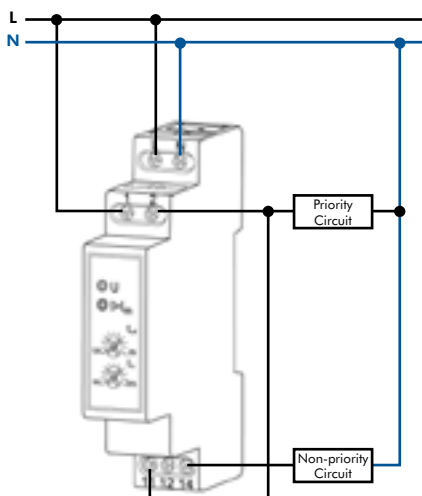
CHARACTERISTICS

- Voltage: 230V~.
- Current: 1,6 - 16A.
- Consumption: 34mA.
- Frequency: 50/60Hz.
- Output: 1NO/NC - 16A/250V~ 4000VA.
- Cables section: 0,2 - 2,5mm².
- Protection Index: IP20.
- Insulation Class: II.

DIMENSIONS (mm)



WIRING DIAGRAMS



■ PROTECTION INDEX AGAINST THE PENETRATION OF SOLID OBJECTS AND AGAINST WATER (IP)

Protection degree of the enclosures of the electrical equipments in accordance with the **EN 60529** and **IEC 60529** Standards.

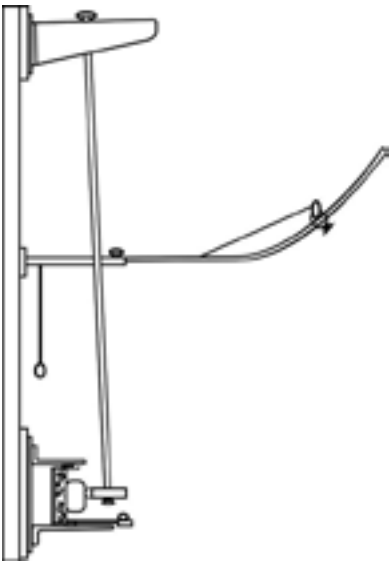
1 ST DIGIT (PROTECTION AGAINST SOLID BODIES)			2 ND DIGIT (PROTECTION AGAINST WATER)			ADDITIONAL LETTER (PROTECTION AGAINST ACCESS TO HAZARDOUS PARTS)		
IP		TEST	IP		TEST	IP		
0	No protection.		0	No protection.		A	Protected against access with the back of the hands.	
1	Protected against solid objects whose diameter is greater than or equal to 50mm.		1	Protected against drops of water falling vertically.		B	Protected against access with the finger	
2	Protected against solid objects whose diameter is greater than or equal to 12,5mm.		2	Protected against drops of water falling vertically with the covering inclined, at most, at 15°.		C	Protected against access with tool	
3	Protected against solid objects whose diameter is greater than or equal to 2,5mm.		3	Protected against rain up to 60° from the vertical.		D	Protected against access with a wire	
4	Protected against solid objects whose diameter is greater than or equal to 1mm.		4	Protected against water projections from all directions.				
5	Protected against dust.		5	Protected against jets of water from all directions.				
6	Dustproof.		6	Protected against strong jets of water similar to a sea wave.				
X	Indifferent		7	Protected against the effects of temporary immersion between 15cm to 1m.				
			8	Protected against the effects of constant immersion in water under pressure.				
			X	Indifferent				

Example: **IP3XC** - Protected against solid objects whose diameter is greater than or equal to 2,5mm. | Indifferent | Protected against access with tool

■ PROTECTION INDEX AGAINST THE MECHANICAL SHOCKS (IK)

Protection degree of the enclosures of the electrical equipments in accordance with the **EN 50102** Standard.

IK	ENERGY OF IMPACT JOULE	USED MASS KG
00	0	0
01	0,15	0,2
02	0,20	0,2
03	0,35	0,2
04	0,50	0,2
05	0,70	0,2
06	1	0,5
07	2	0,5
08	5	1,7
09	10	5
10	20	5



The mark, when placed on a product, guarantees its conformity with all applicable standards, and guarantees that the product was produced by a manufacturer who has a manufacturing production control system.



CERTIF

Product Certification (Portugal)



Verband Deutscher Elektrotechniker

Product Certification (Germany)



AFNOR - LCIE

Laboratoire Central des Industries Électriques (France)



DEKRA Certification B. V.

Product Certification (Netherlands)



SGS Belgium N. V. - CEBEC

Product Certification (Belgium)



INTERTEK ETL SEMKO

Product Certification (Sweden)



GOSSTANDART RUSSIA

Product Certification (Russia)



UKRSEPRO

Product Certification (Ukraine)



CIDET - Centro de Innovación y Desarrollo Tecnológico del Sector Eléctrico

Product Certification (Colombia)



G-MARK - Gulf Cooperation Council (GCC) Standardization Organization (GSO)

Product Certification (Países Golfo - GCC - United Arab Emirates, The Kingdom of Bahrain, The Kingdom of Saudi Arabia, The Sultanate of Oman, The State of Qatar and The State of Kuwait)



EAC - Eurasian Conformity Mark

Product Certification (Eurasian Customs Union: Russia, Belarus and Kazakhstan)

■ MARK OF CONFORMITY TO THE EUROPEAN COMMUNITY DIRECTIVES APPLICABLE TO THE PRODUCT

MANUFACTURER



The CE mark, as established by 2014/35/UE (Low Voltage), 2014/30/UE (Electromagnetic Compatibility) and 2014/53/UE (Equipments of Radio) Directives, shows that the manufacturer complies with the required duties relating to equipment compliance with the applicable Directives of the European Community Council.

All the currently commercialised EFAPEL products are under CE mark, except for:

- 16A (250V) Sockets;
- 12V Switches;
- Plastic Fittings.

MADE IN PORTUGAL

- We are **present in the electrical market for more than 40 years** (founded in 1978);
- We have a **privileged location in the center of Portugal**, in the region of Coimbra;
- We are a **young working team of 400 workers**, operating in **5 modern industrial production units**, with a total surface area exceeding 26.000 m²;
- We are **certified** in accordance with:
 - **NP EN ISO 9001**
(Quality Management System),
 - **NP EN ISO 14001**
(Environmental Management System),
 - **OHSAS 18001/NP 4397**
(Occupational Health and Safety Management System).
- We are in the process of transition to certification **ISO 45001** (Occupational Health and Safety Management System).
- **We develop and manufacture quality products** for low voltage electrical installations;
- Our goal is to provide our customers and the market in general with a **complete range of equipment** that enables designing and executing electrical installations with **EFAPEL**.

OUR COMMITMENTS...

WITH OUR CUSTOMERS

From the beginning, our company policy is based on **three fundamental elements**:

- **The Product:** By developing and manufacturing Quality products that match the needs and expectations of our Customers;
- **Customer Service:** Providing our Customers the most effective and quick support;
- **The Best Quality/ Price Ratio.**

WITH THE QUALITY AND SAFETY OF OUR PRODUCTS

- All our products are **developed, manufactured and tested** in strict accordance with all related standards. They also respond to the requirements of each country for which they are destined.
- **We guarantee the Quality and Safety** of our products from the design to their use by ensuring a **constant supervision** over the production processes and a **rigorous Quality Control**.

WITH THE ENVIRONMENT AND THE FUTURE



- All the environmental aspects are systematically identified, controlled and measured in order to guarantee the **continuous improvement of EFAPEL environmental performance**.
- **Aiming to promote good environmental practices, we encourage our Workers, Suppliers and Customers to use our daily environmental practices on a daily basis.**



- **All the carton products primary boxes, samples and deliver packages are 100% recyclable, and shall be deposited in their respective ecopoints.**



- **We assure the final treatment of the electrical products** under the REEE 2012/19/UE Directive, by a legal contract with the national specialized company - ERP Portugal.

EFAPEL® PORTUGAL

EFAPEL - Serpins

40° 9' 34" N

8° 12' 48" O

EFAPEL - Alto do Padrão

40° 6' 48" N

8° 17' 35" O



EFAPEL in the World





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