

## i d e a .

Two hundred modular functions, in two colours: the high-tech appeal of grey or the clean elegance of white. Fifty-one colours and four cover plate materials in the rigorous Classica or rounded Rondò designs. Because tastes, like ideas can vary.

**idea**

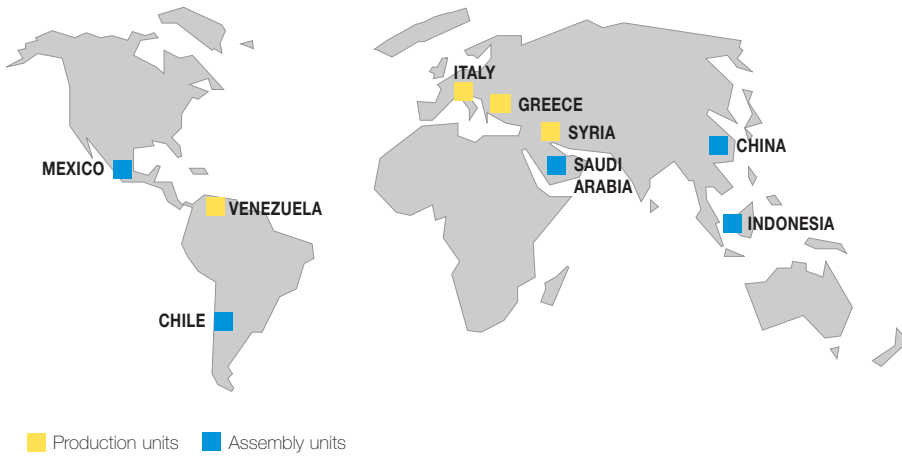
 **VIMAR**

**Positive energy.** This is our philosophy. This is our story. A story which started over fifty years ago, on the first of May 1945, when Walter Viaro and Francesco Gusi decided to celebrate Labour Day in a special way, by setting up a new company. And so the story of the Vimar 'V' began. A story written with enthusiasm of people who take pride in what they do. Energy, positive vision, the drive to continually improve product quality, the ability to listen to commercial partners: these are the ingredients which have enabled the company to grow to its present size.

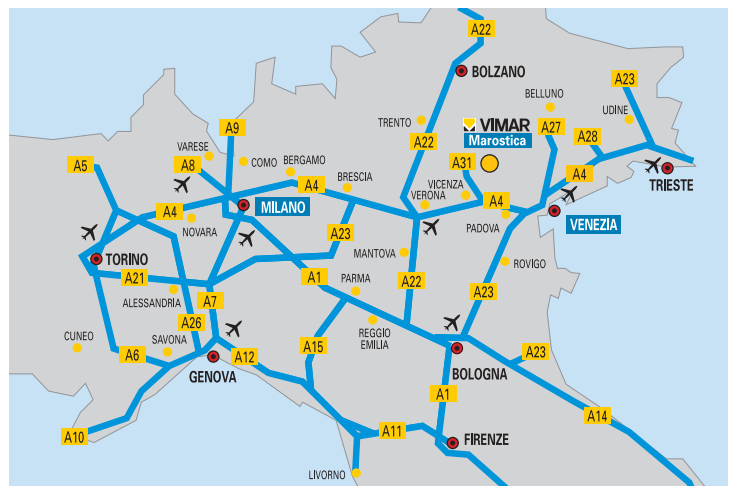


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<http://www.vimar.it> - e-mail: [vimar@vimar.it](mailto:vimar@vimar.it).

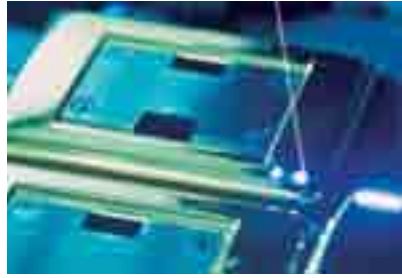
**From Italy to the Far East.** A consolidated production organisation in Italy. A sales and assembly network that comprises nine international units. Employees who work in synergy with professionals and operators in the local markets. Continually expanding sales, a product range with some three thousand codes, that is able to meet a vast array of standard and special requirements.



**Head office.** Marostica, where Vimar was first established over fifty years ago, is the location of the new headquarters. It can be easily reached from the airports of Venice, Milan, Bologna, Verona and Trieste.







**Quality system.** Laboratory tests and inspections track the products from initial design through to final packaging, to guarantee certified quality.



**From design to distribution.** Seventy thousand square metres of industrial area - the hub of our production energies. Research and development of new products. Design and product engineering using CAD systems. Working, pressing and moulding of plastics and metals. Fully computerised production, up until packaging and stock control. To answer to the needs of the markets in real time.



**Vimar in the world.** More than twenty-three million residential homes. And prestigious installations in Italy and around the world. From historic buildings to big boats. From health centres to international airports. From tourist resorts to major public works . **1, 20** Milan (Italy), Malpensa airport. **2** Catania (Italy), Excelsior Grand Hotel. **3** Milan (Italy), Monteverdi clinics. **4** Padua (Italy), Café Pedrocchi. **5, 29** Affi (Italy), Eurocongressi Hotel . **6** Peloponnese, Aldemar Olympic Village.



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7, 13 Lecco (Italy), Alessandro Manzoni Hospital. 8, 17 Caracas, Isla Paraiso. 9 Crete, Nana Beach Resort. 10 Paris, Georges Pompidou Hospital. 11 Seven Seas. 12 Corvara (Italy), Grifone Hotel. 14, 27, 30 Brescia (Italy), La Baitella residence. 15, 22, 37 Turin (Italy), Züst Ambrosetti center. 16 Paris, French Radiotelevision . 18 Beirut, Golden Rose Residential Building. 19, 23, 26 Ferretti, Motoryacht. 21, 28 Istanbul, Inter-Continental Hotel. 24 Paris, Sofiel Hotel.





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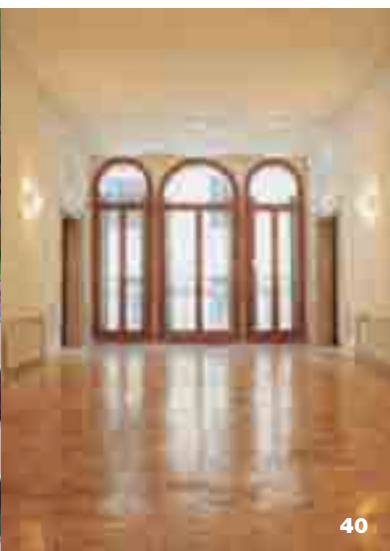
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25 Padua (Italy), The Cathedral. 31, 32, 33, 49 Florence (Italy), Savoy Hotel. 34, 52 Grosseto (Italy), Fattoria La Principina Hotel. 35 Grece, Gelina holiday village. 36 Catania (Italy), Parco degli Aragonesi. 38, 39 Castiglione delle Stiviere, Gonzaga castle. 40 Venice (Italy), Ghetto. 41, 42 San Donato Milanese (Italy), Le Torri Lombarde.



**43, 44, 45** Crete, Spilja Village. **46** Caracas, La Loma. **47, 50** Verona (Italy), Palazzo della Gran Guardia. **51** Beirut, Royal Plaza Hotel. **48** Venezuela, Pueblo Viejo. **53, 54** Venice (Italy), Excelsior San Marco Hotel. **55** Mykonos, Royal Myconian Hotel. **56, 57** Padua (Italy), Santa Giustina monastery. **58** Fincantieri, Grand Princess.



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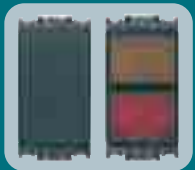
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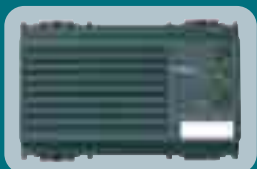
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## Equipments

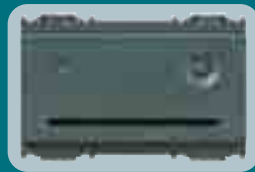


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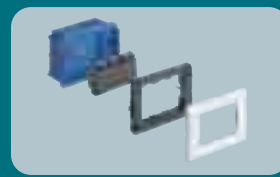
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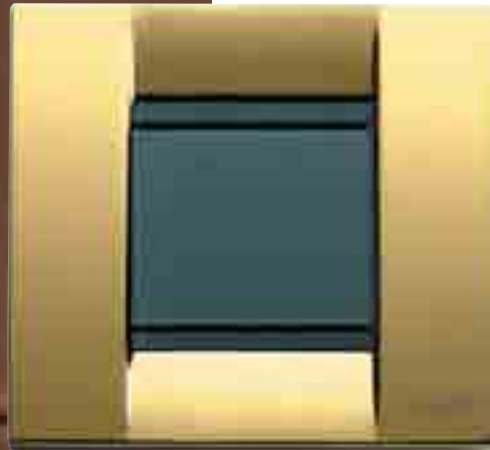
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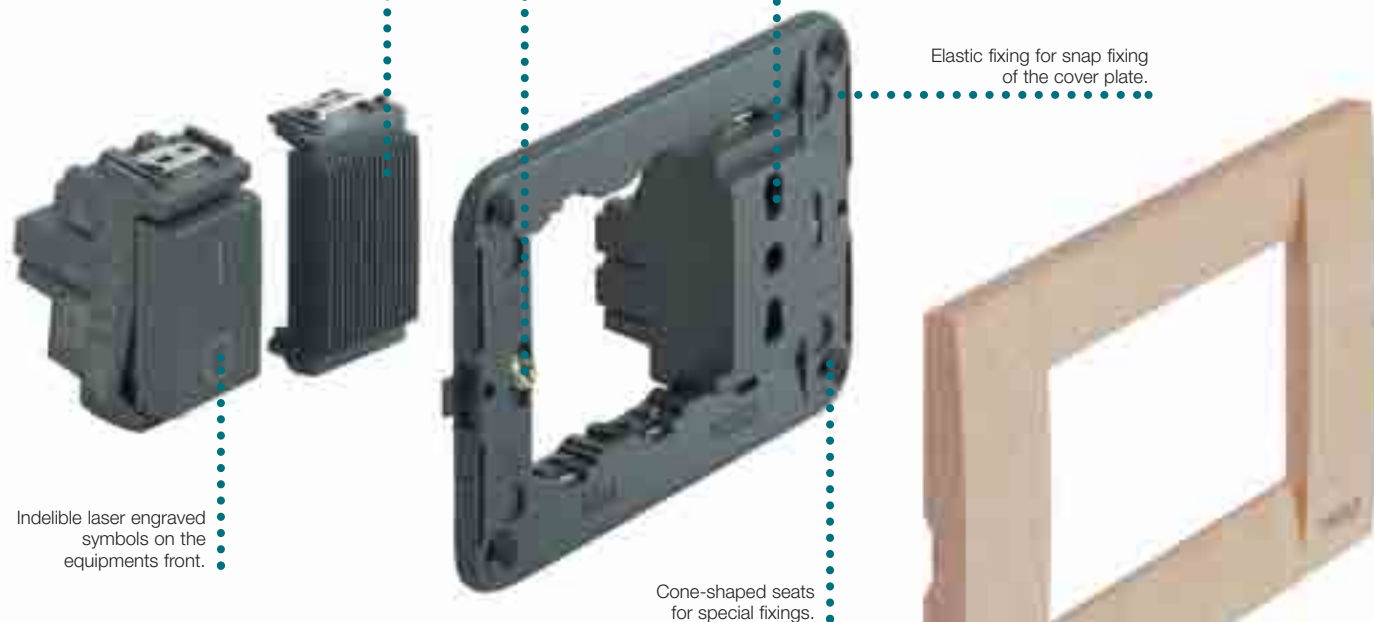
## Equipments, mounting frames, cover plates

Blank modules available with grooved or smooth front.

Whenever necessary, the vertically grooved front allows tactile and visual differentiation between passive (not directly actuated) and active functions, which have a smooth front.

Captive screws with combined Phillips and slotted head.  
Zinc plating and olive green passivation.

Socket outlets with shuttered live socket-contacts (according to IEC 60884-1).



### Degree of protection of the assembly

The following IP degree of protection is considered assigned to the assembly formed by equipment, mounting frame and cover plate, flush mounted on vertical position (Standard IEC 60364-7-701):

- IP41 with closed front equipments (i.e. switches, bells, buzzers, etc.)
- IPX1 with open front equipments (i.e. socket outlets, etc.)

The assembly can therefore be installed within zone 3 in bathrooms and shower baths

### Cover plates range

Cover plates complete and valorize the electrical function and are available in several colours and materials, and with two different designs.

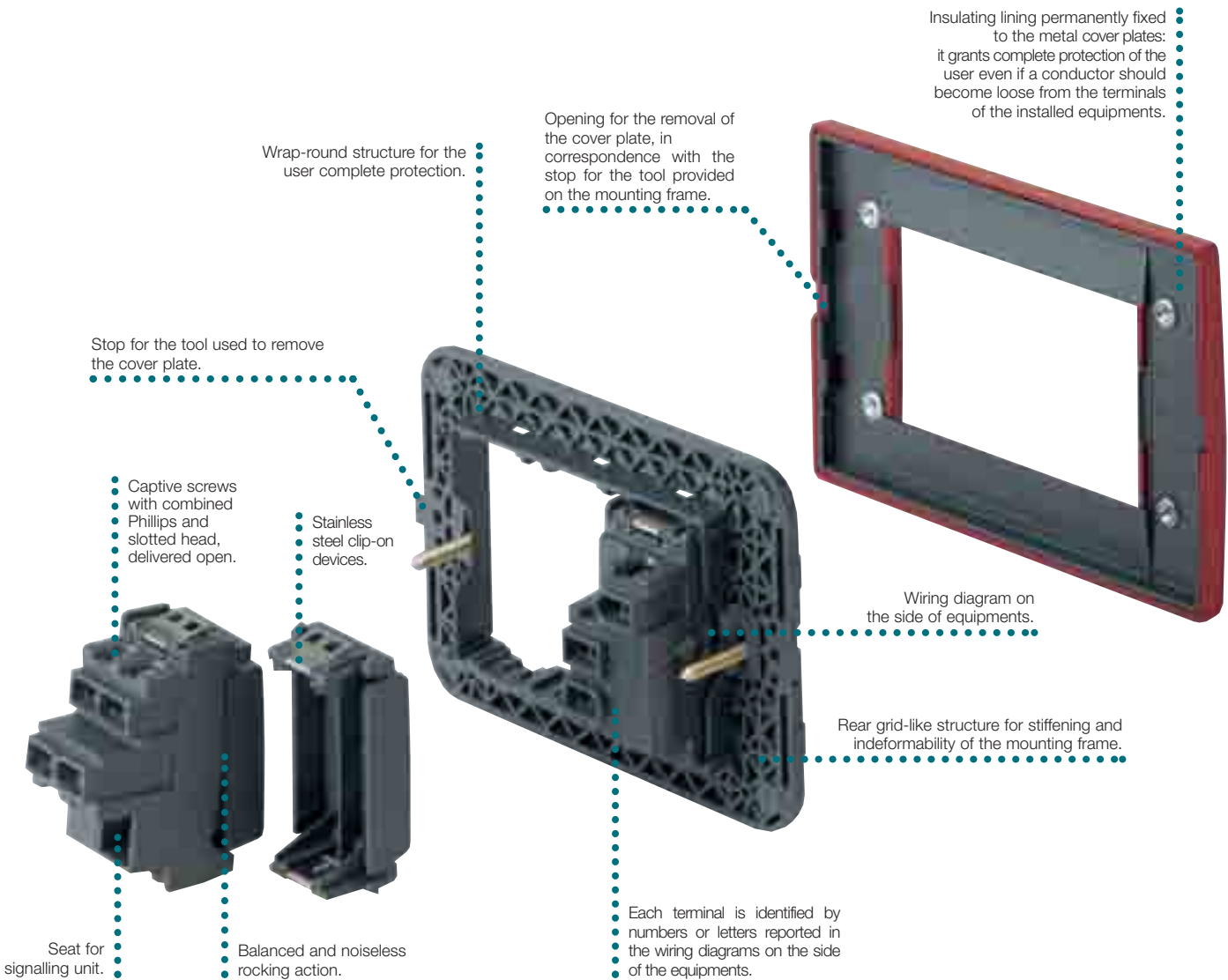


*classica cover plate*

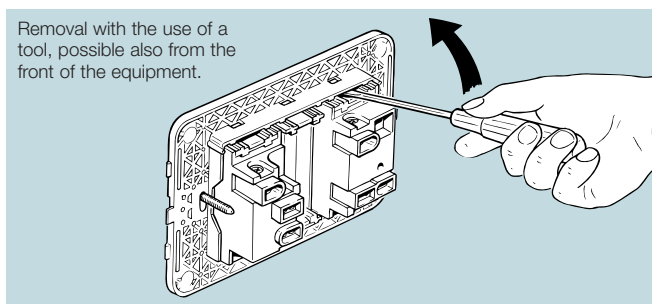
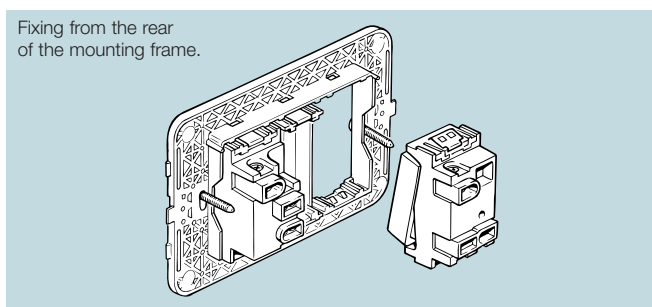


*rondò cover plate*

# Equipments, mounting frames, cover plates



## Equipment fixing and removing



## Mounting frame for ø 60 mm round flush mounting box





## Switches

### Technical characteristics

#### Scope

Switching on and off of ohm-inductive loads:

- lighting circuits:
  - lighting fittings (luminaires) for use with incandescent lamps
  - lighting fittings (luminaires) for use with fluorescent lamps, with or without power factor compensation
- dedicated circuits for:
  - motor driven appliances (fans, ventilators, canopy hoods, etc)
  - switched socket outlets

• minimum electrical life:

- 40,000 operations with rated current, 250 V~,  $\cos \phi 0,6$
- 10,000 operations for 10 AX equipments (5000 for 16 AX equipments), with rated current, 250 V~, with load of fluorescent lamps
- balanced and noiseless rocking action for 1-way, 2-way and reversing switches
- noiseless lever action with patented toggle joint for push buttons

To locate the switches in case of reduced lighting or darkness, use luminous switches or switches with luminescent indicator.

#### Conformity to Standards

LV Directive  
Standard EN 60669-1

#### Technical specifications

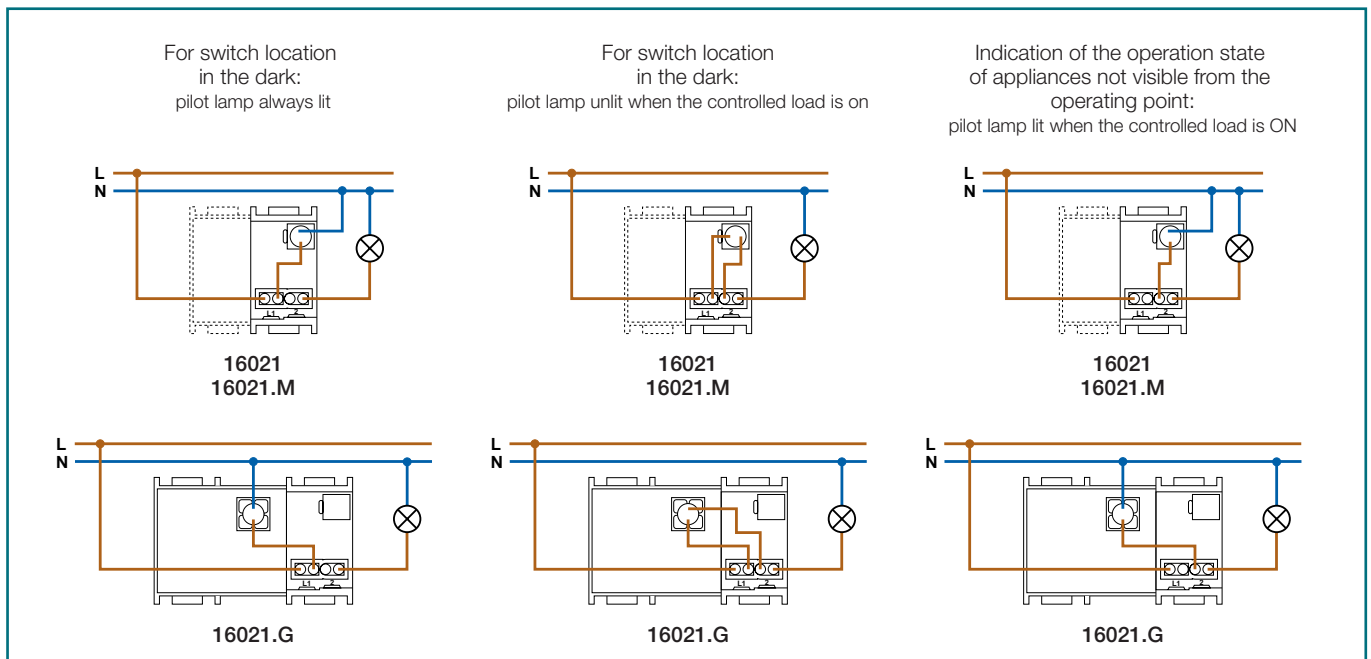
- rated voltage: 250 V~
- rated current:
  - 10 A or 16 A for push buttons
  - 10 AX or 16 AX for equipments that control circuits of fluorescent lamps with power factor compensation
- contact opening gap: > 3 mm
- insulation resistance: > 5 M $\Omega$  tested with 500 V d.c.
- dielectric strength: > 2000 V~
- minimum breaking capacity:
  - 200 operations with 1,25 rated current, 275 V~  $\cos \phi 0,3$  and
  - 200 operations with 1,2 rated current, 250 V~, with load of tungsten filament lamp (except push buttons)

#### Switches with customized buttons

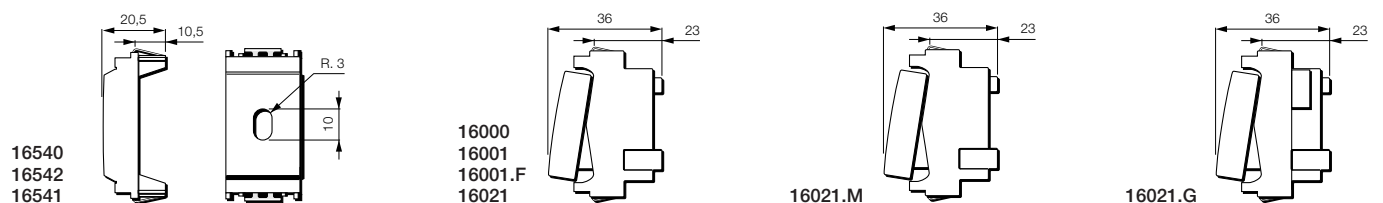
VIMAR laser technology allows to reproduce on the buttons, with absolute precision and indelebility, the following:

- all the symbols of the articles in the present catalogue
- all the symbols and wordings shown on page 165
- symbols, wordings, logotypes or trademarks on request (see page "Customization" on page 165)

### Wiring diagrams for luminous 1P 1-way switches with 110 V~ or 250 V~ signalling unit



### Dimensions (mm) Side views show the overall dimensions and the flush depth



## Switches

### Blank modules and cable outlets

Grey	White	
16540	.B	Blank module, grooved front
16542	.B	Blank module, smooth front
16541	.B	Cable outlet with cord-grip

16540



16542



16541



16540.B



16542.B



16541.B



### 1P 1-way switches 250 V~



Grey	White	
16000	.B	1P 10 AX 250 V~ 1-way switch
16001	.B	1P 16 AX 250 V~ 1-way switch
16001.F	.B	1P 16 AX 250 V~ 1-way switch, with luminescent indicator

16000



16001



16001.F



16000.B



16001.B



16001.F.B



16021	.B	1P 16 AX 250 V~ 1-way switch, luminous, for signalling unit. The signalling unit is not provided
16021.M	.B	1P 16 AX 250 V~ 1-way switch, luminous, for signalling unit - 2 modules. The signalling unit is not provided

16021



16021.M



16021.B



16021.M.B



16021.G	.B	1P 16 AX 250 V~ 1-way switch, luminous, for signalling unit - 3 modules. The signalling unit is not provided
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16021.G



16021.G.B

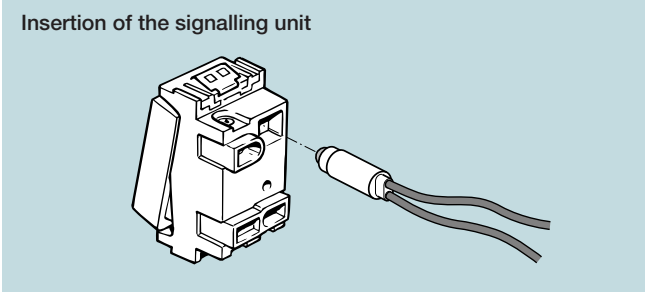


## Switches

### Technical characteristics

Luminous switches  
Signalling unit

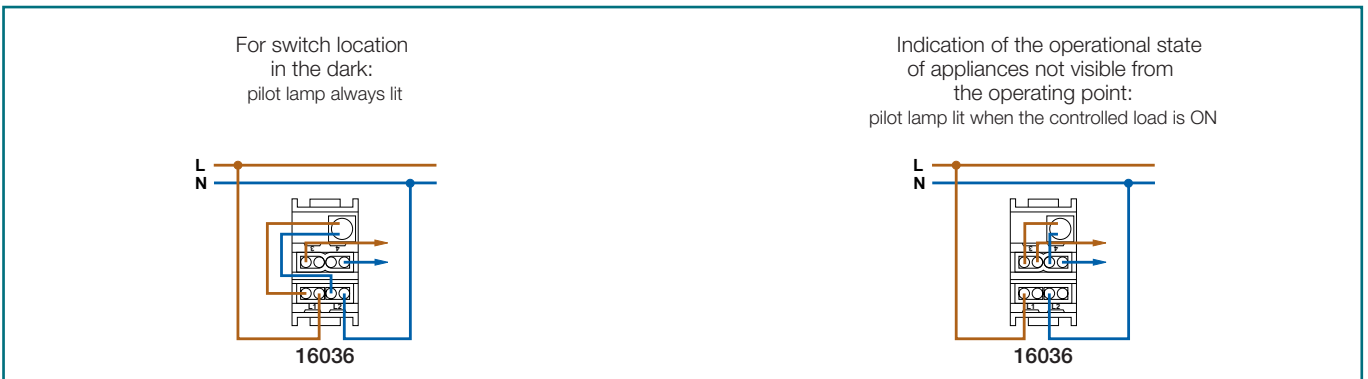
#### Range and technical specifications of signalling units



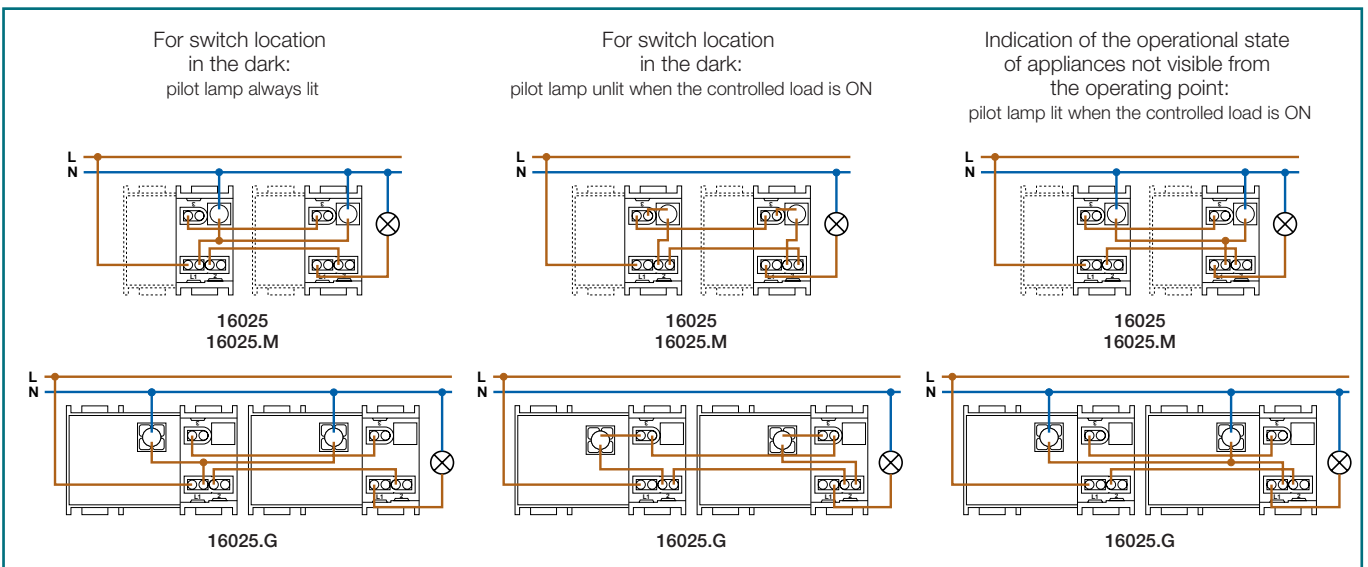
Article	Type	Supply voltage	W	Colour of the light
10490	incandescent	12 V	0,5 W max	white
10491	incandescent	24 V	0,5 W max	white
10492	neon	110 V~	0,5 W max	red
10493	neon	250 V~	0,5 W max	red
10492.V	fluorescent	110 V~	0,5 W max	green
10493.V	fluorescent	250 V~	0,5 W max	green
10492.AZ	fluorescent	110 V~	0,5 W max	blue
10493.AZ	fluorescent	250 V~	0,5 W max	blue

A 1,5  $\mu$ F 400 V~ capacitor should be connected in parallel to neon or fluorescent signalling units to avoid self-ignition in special circuits

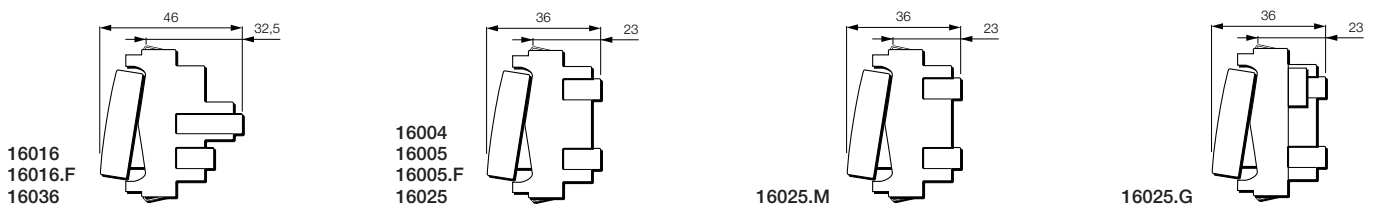
#### Wiring diagrams for luminous 2P 1-way switches with 110 V~ or 250 V~ signalling unit



#### Wiring diagrams of luminous 1P 2-way switches with 110 V~ or 250 V~ signalling unit



Dimensions (mm) Side views show the overall dimensions and the flush depth



## Switches

### 2P 1-way switches 250 V~



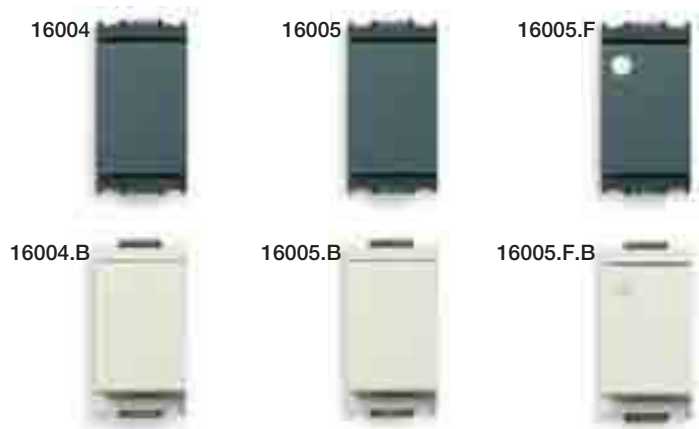
Grey	White	
<b>16016</b>	<b>.B</b>	2P 16 AX 250 V~ 1-way switch
<b>16016.F</b>	<b>.B</b>	2P 16 AX 250 V~ 1-way switch, with luminescent indicator
<b>16036</b>	<b>.B</b>	2P 16 AX 250 V~ 1-way switch, luminous, for signalling unit. The signalling unit is not provided



### 1P 2-way switches 250 V~



Grey	White	
<b>16004</b>	<b>.B</b>	1P 10 AX 250 V~ 2-way switch
<b>16005</b>	<b>.B</b>	1P 16 AX 250 V~ 2-way switch
<b>16005.F</b>	<b>.B</b>	1P 16 AX 250 V~ 2-way switch, with luminescent indicator



<b>16025</b>	<b>.B</b>	1P 16 AX 250 V~ 2-way switch, luminous, for signalling unit. The signalling unit is not provided
<b>16025.M</b>	<b>.B</b>	1P 16 AX 250 V~ 2-way switch, luminous, for signalling unit - 2 modules. The signalling unit is not provided



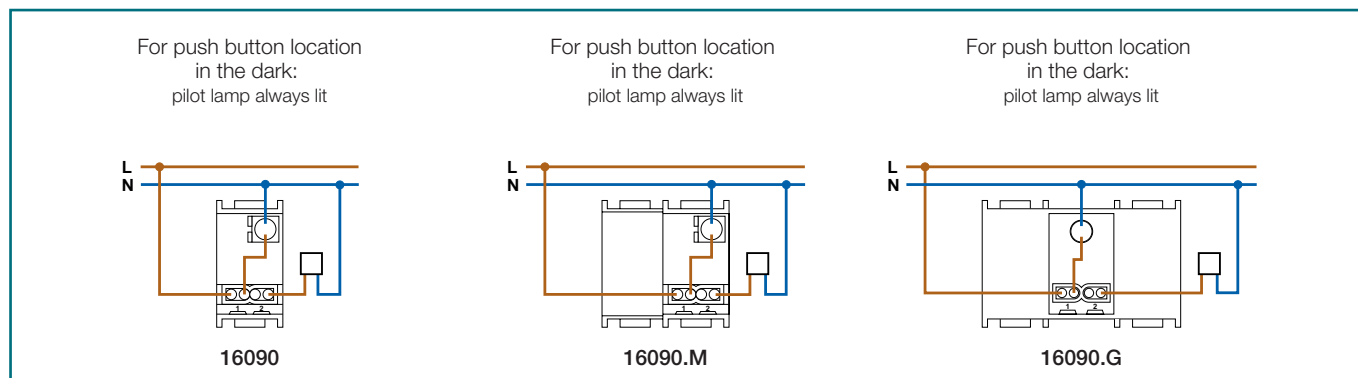
<b>16025.G</b>	<b>.B</b>	1P 16 AX 250 V~ 2-way switch, luminous, for signalling unit - 3 modules. The signalling unit is not provided
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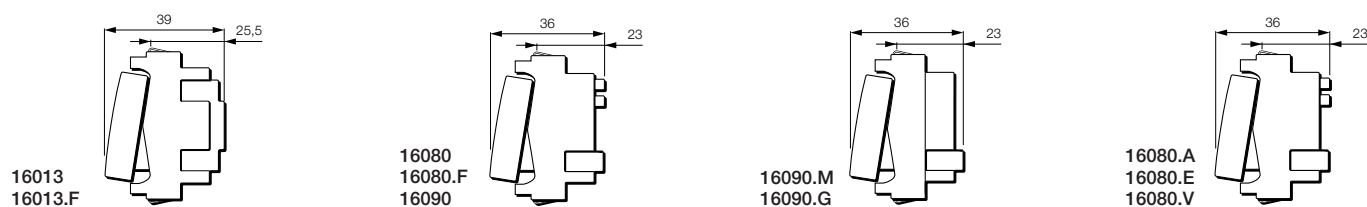
## Switches

### Technical characteristics

Wiring diagrams of luminous 1P push buttons with 110 V~ or 250 V~ signalling unit



**Dimensions (mm)** Side views show the overall dimensions and the flush depth



# Switches

## 1P reversing switches 250 V~



Grey	White	
16013	.B	1P 16 AX 250 V~ reversing switch
16013.F	.B	1P 16 AX 250 V~ reversing switch, with luminescent indicator

16013



16013.F



16013.B



16013.F.B



## 1P NO push buttons 250 V~



Grey	White	
16080	.B	1P NO 10 A 250 V~ push button, general symbol
16080.F	.B	1P NO 10 A 250 V~ push button, general symbol, with luminescent indicator
16090	.B	1P NO 10 A 250 V~ push button, general symbol, luminous, for signalling unit. The signalling unit is not provided

16080



16080.F



16090



16080.B



16080.F.B



16090.B



16090.M	.B	1P NO 10 A 250 V~ push button, general symbol, luminous, for signalling unit - 2 modules. The signalling unit is not provided
16090.G	.B	1P NO 10 A 250 V~, push button, general symbol, luminous, for signalling unit - 3 modules. The signalling unit is not provided

16090.M



16090.G



16090.M.B



16090.G.B



16080.A	.B	1P NO 10 A 250 V~ push button, maid symbol
16080.E	.B	1P NO 10 A 250 V~ push button, waiter symbol
16080.V	.B	1P NO 10 A 250 V~ push button, valet symbol

16080.A



16080.E



16080.V



16080.A.B



16080.E.B



16080.V.B



## Switches

### Technical characteristics

#### Lightable name-plate push button

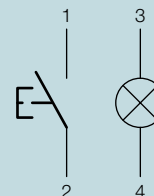
To be supplied through safety isolating transformer

#### Microtube lamp

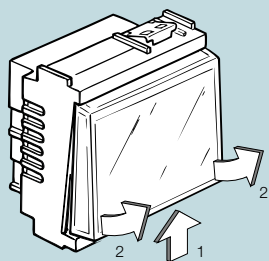
#### Range and technical specifications for microtube lamps

Article	Type	Supply voltage	W	Dimensions	Colour
07054.L	incandescent	12 V	3 W	ø 7x37	white
07055.L	incandescent	24 V	3 W	ø 7x37	white

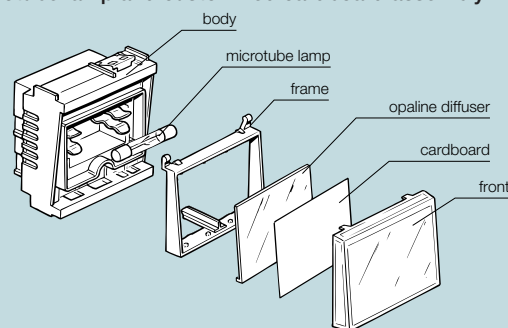
16190 Diagram



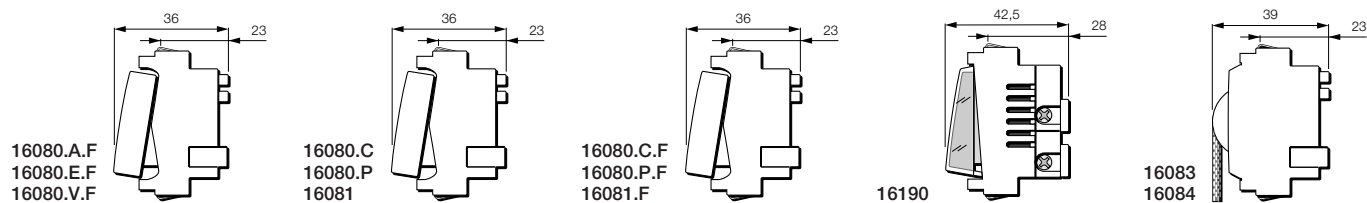
Opening of the name-plate



Microtube lamp and customized cardboard assembly



Dimensions (mm) Side views show the overall dimensions and the flush depth



# Switches

## 1P NO push buttons 250 V~ (continued)



Grey	White	
16080.A.F	.B	1P NO 10 A 250 V~ push button, maid symbol, with luminescent indicator
16080.E.F	.B	1P NO 10 A 250 V~ push button, waiter symbol, with luminescent indicator
16080.V.F	.B	1P NO 10 A 250 V~ push button, valet symbol, with luminescent indicator



16080.C	.B	1P NO 10 A 250 V~ push button, bell symbol
16080.P	.B	1P NO 10 A 250 V~ push button, key symbol
16081	.B	1P NO 10 A 250 V~ push button, light symbol



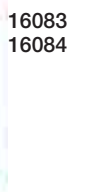
16080.C.F	.B	1P NO 10 A 250 V~ push button, bell symbol, with luminescent indicator
16080.P.F	.B	1P NO 10 A 250 V~ push button, key symbol, with luminescent indicator
16081.F	.B	1P NO 10 A 250 V~ push button, light symbol, with luminescent indicator



## Special 1P push buttons



Grey	White	
16190	.B	1P NO 10 A push button, with lightable name plate, 12-24 V~ (SELV), for 12-24 V 3 W $\varnothing$ 7x37 mm microtube lamp - 2 modules. The lamp is not provided
16083	.B	1P NC 10 A 250 V~ cord-operated push button, with 1,5 m cord
16084	.B	1P NO 10 A 250 V~ cord-operated push button, with 1,5 m cord

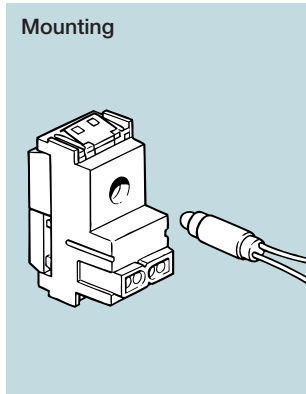


16083.B  
16084.B



### Technical characteristics

Push buttons + indicator unit for signalling unit



Mounting

A 1.5  $\mu$ F 400 V~ capacitor should be connected in parallel to neon or fluorescent signalling units to avoid self-ignition in special circuits

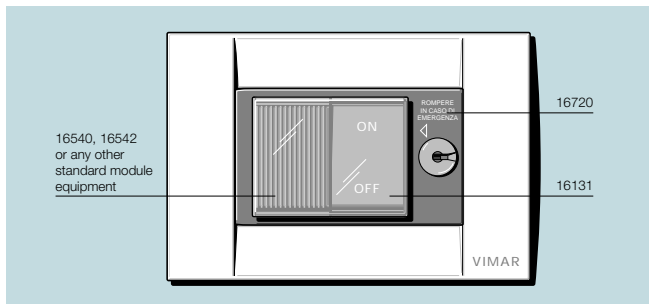
#### Range and technical specifications of signalling units

Colour of indicator light	Signalling unit	Type	Supply voltage	W	Colour of indicator light	Diffuser colour
white	<b>10490</b>	incandescent	12 V	0,5 W max	white	white
white	<b>10491</b>	incandescent	24 V	0,5 W max	white	white
orange	<b>10490</b>	incandescent	12 V	0,5 W max	white	orange
orange	<b>10491</b>	incandescent	24 V	0,5 W max	white	orange
red	<b>10492</b>	neon	110 V~	0,5 W max	red	red
red	<b>10493</b>	neon	250 V~	0,5 W max	red	red
green	<b>10492.V</b>	fluorescent	110 V~	0,5 W max	green	green
green	<b>10493.V</b>	fluorescent	250 V~	0,5 W max	green	green
blue	<b>10492.AZ</b>	fluorescent	110 V~	0,5 W max	blue	white
blue	<b>10493.AZ</b>	fluorescent	250 V~	0,5 W max	blue	white

**N.B.** Colour of indicator light = colour of the signalling unit + colour of the diffuser

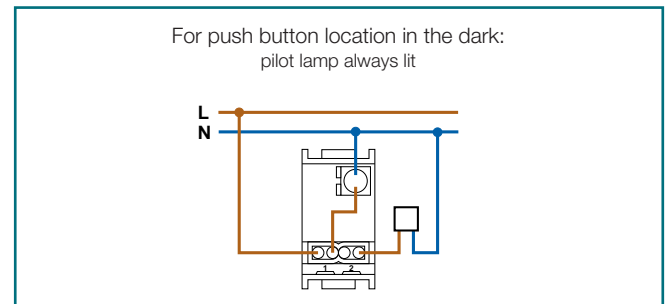
#### 16131 - Special switches 250 V~

1-way switch 16131 can be used as emergency switch for lifts and elevators in residential and similar buildings, if installed on the mounting frame 16720 with lockable door and replaceable, breakable glass frontal lid.



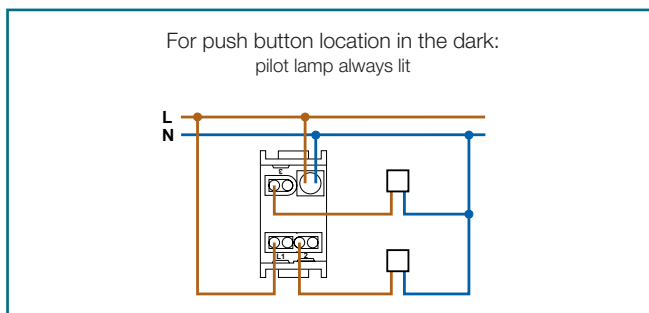
#### 16092 - Special switches 250 V~

Wiring of the luminous 1P NC push button with 110 V~ or 250 V~ signalling units

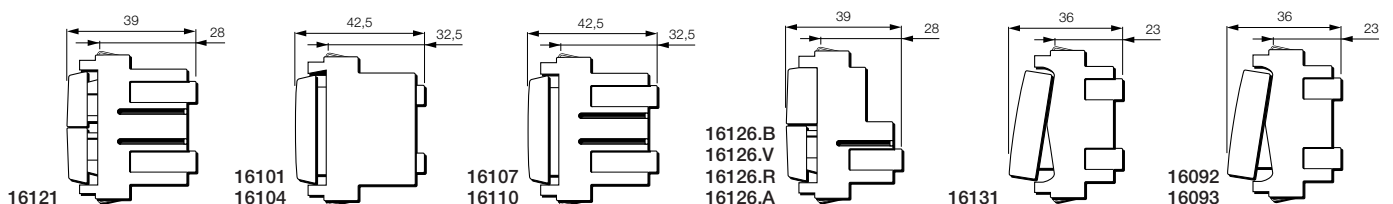


#### 16093 - Special switches 250 V~

Wiring of luminous change-over push button with 110 V~ or 250 V~ signalling units

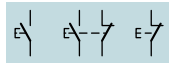


#### Dimensions (mm) Side views show the overall dimensions and the flush depth



# Switches

## Additional 1P push buttons 250 V~



Grey	White	
16101	.B	1P NO 16 A 250 V~ push button (ON)
16107	.B	1P NO 16 A 250 V~ push button (ON) with NC 16 A auxiliary contact
16104	.B	1P NC 16 A 250 V~ push button (OFF)
16110	.B	1P NC 16 A 250 V~ push button (OFF) with NO 16 A auxiliary contact

16101  
16107



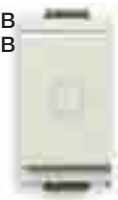
16104  
16110



16101.B  
16107.B



16104.B  
16110.B



## Additional 1P push buttons 250 V~



Grey	White	
16121	.B	Two independent push buttons, 1P NO + 1P NO 10 A 250 V~. They allow the simultaneous closing of the two circuits and are thus not suitable for reversing motors (rollers, gates, etc.)
16126.B	.B	1P NO 10 A 250 V~ push button + indicator unit for signalling unit, white diffuser. The signalling unit is not provided

16121



16126.B



16121.B



16126.B.B



16126.V	.B	As above, green diffuser
16126.R	.B	As above, red diffuser
16126.A	.B	As above, orange diffuser

16126.V



16126.R



16126.A



16126.V.B



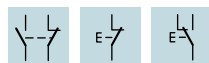
16126.R.B



16126.A.B



## Special switches 250 V~



Grey	White	
16131	.B	1P 16 AX 250 V~ switch, 1 NO + 1 NC independent contacts with single button
16092	.B	1P NC 10 A 250 V~ push button, general symbol, luminous, for signalling unit. The signalling unit is not provided
16093	.B	1P 10 A 250 V~ change-over push button, general symbol, luminous, for signalling unit. The signalling unit is not provided

16131



16092



16093



16131.B



16092.B



16093.B



## Switches

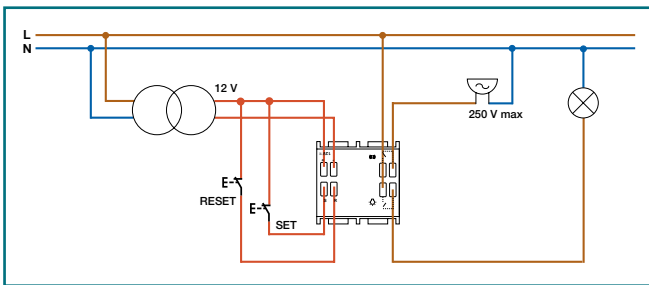
### Scope

It makes possible to develop a calling system for hospital (hospitals, rest homes, clinics) or industrial environments (factories, noisy laboratories), combined with remote optical and acoustic signalling functions to satisfy needs for assistance, intervention, emergency, etc.

### Conformity to Standards

LV Directive  
EMC Directive  
Standard EN 60669-2-1

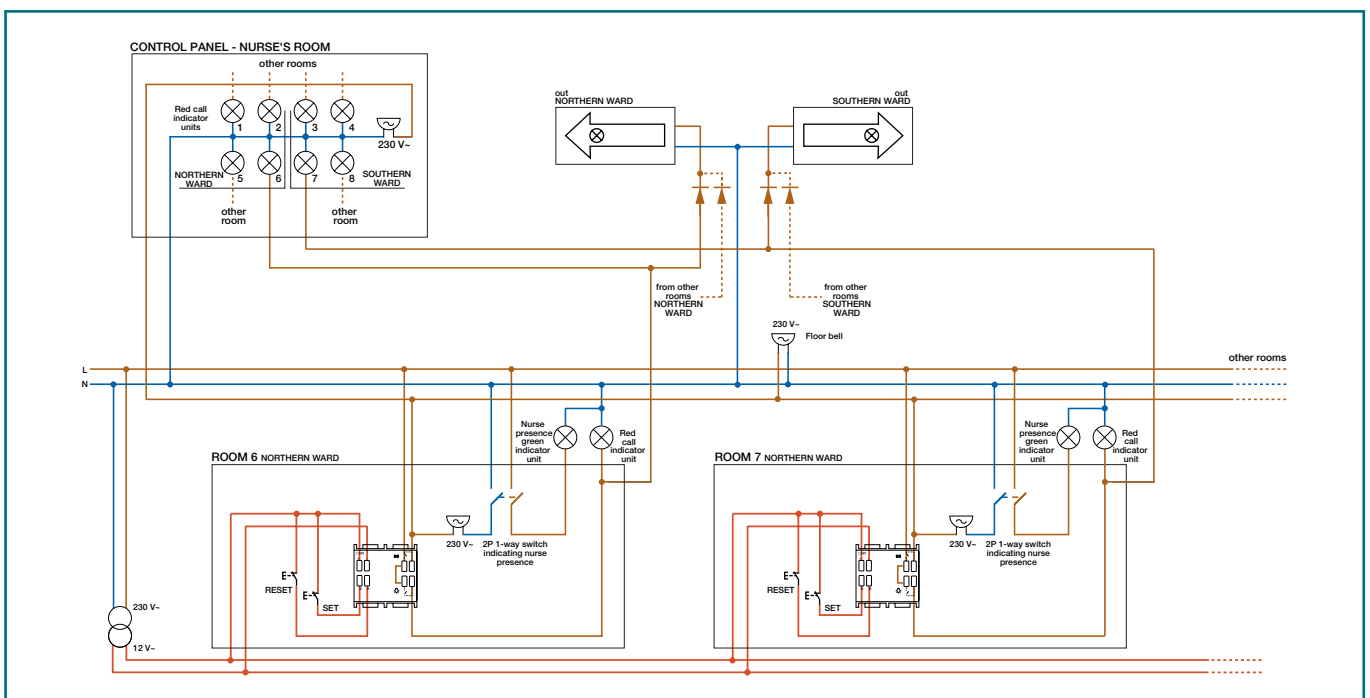
### 16643 - Connection



### Characteristics

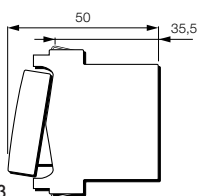
- supply voltage: 12 V d.c. / 12 V~ ±10% 50-60 Hz
- absorption: approximately 100 mA with active alarm outputs RL1 and RL2
- front switch: SET push button
- two-colour LED:
  - green: equipment supplied and no activated alarm
  - flashing red: alarm activated
- input:
  - normally closed connected to positive (+) terminal for SET function
  - normally closed connected to positive (+) terminal for RESET function
- RL1 alarm output : NO 5 A 250 V~ relay with double insulation with respect to power supply and push buttons
- RL2 alarm output: NO 5 A 250 V~ relay with double insulation with respect to power supply and push buttons
- controllable loads:
  - purely resistive loads  $\sim$  : 5 A
  - incandescent lamps  $\text{⊗}$  : 500 W
  - magnetic core transformers for very low voltage incandescent lamps (for example, halogen lamps)  $\text{⊗}$  : 500 W

### Connection in the hospital setting



### Dimensions (mm)

Side views show the overall dimensions and the flush depth



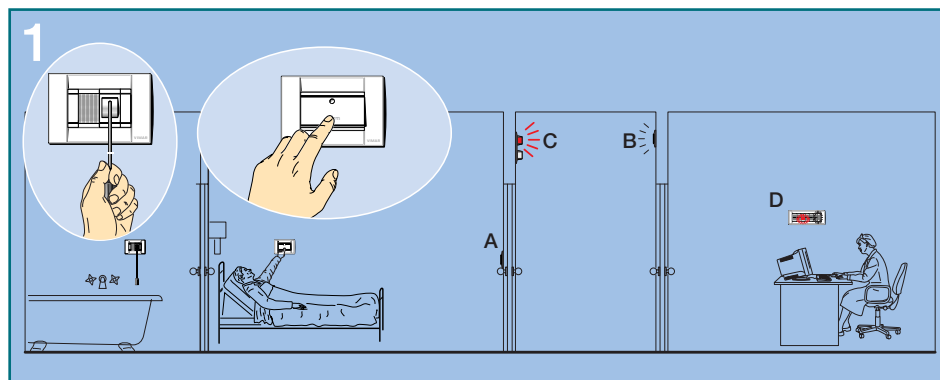
16643

## Set/Reset devices

Grey	White	
16643	.B	SET/RESET switch for emergency call system, location in the dark, 2 NO 5 A 250 V~ relay outputs for acoustic and optical signals, supply voltage 12 V~ 50-60 Hz or 12 V d.c. (SELV) - 2 modules. SET with built-in push button or from peripheral NC buttons connected in series. RESET from peripheral NC buttons connected in series



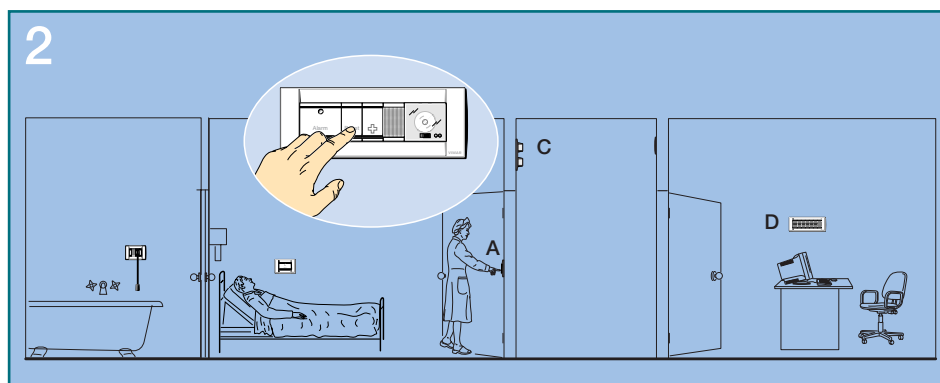
## 16643 - Example of use



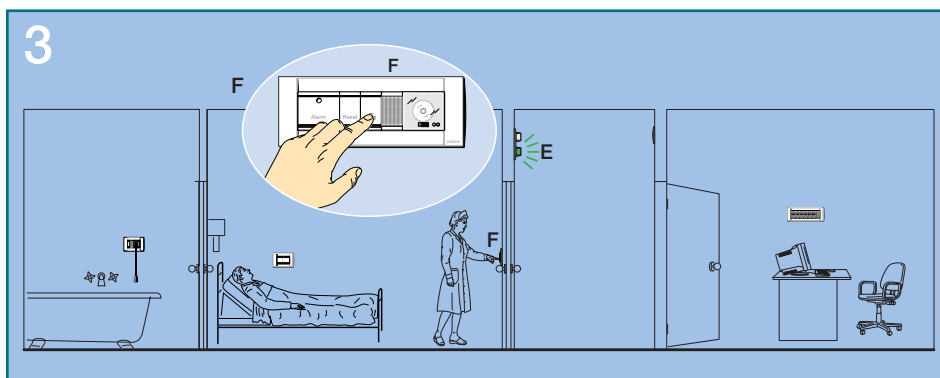
1) The patient makes a call by pressing the push button 16092 (with "ALARM" customization), or by pressing the cord-operated push button 16083, thereby activating:


- A. SET/RESET device 16643 and its corresponding indicator unit in the patient's room
- B. bell in the corridor
- C. lights red indicator unit 16433.R in the corridor
- D. lights red indicator unit 16431.R in the nurse's station and the bell 16403 corresponding to the caller's number

*Note: the bell B is silenced after 3 seconds; the indicator unit lights A - C - D begins flashing to confirm the call*



2) The nurse who enters the patient's room resets the push button 16092 (with "RESET" customization), stopping the flashing of devices A - C - D



3) If the nurse needs to remain in the room he/she may notify thereof by activating the 2P 1-way switch 16016 (customized ) thereby:

- E. lights green indicator unit 16433.V in the corridor
- F. enables operation of the buzzer 16408 in case of call from another room

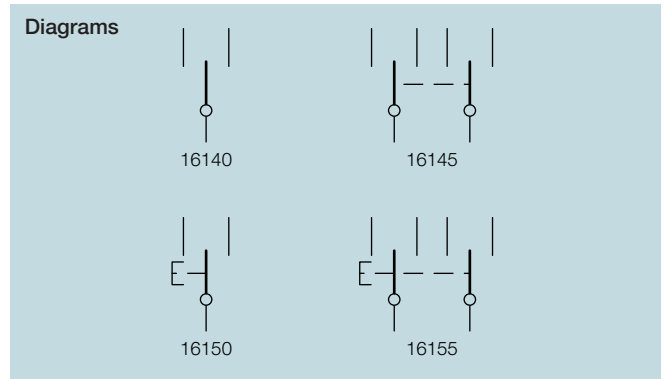
## Switches

### Technical characteristics

#### Switches with directional arrows

These switches can be used for the direct control of motor driven loads, i.e. roller blinds, gates, etc.

The switches, which are operated by push buttons, may be associated to relays to control motor driven loads by pulses, i.e. roller blinds, gates, etc.



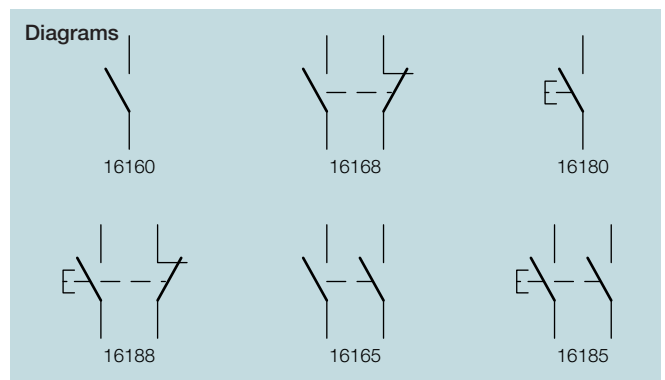
#### Key operated switches

These switches are particularly suitable to prevent outsiders from unauthorized operations.

Two kinds of key operated switches are available: switches with the same lock and key (unified code 000), which allows the user to operate all the switches with the same key; switches with different locks and keys, to restrict the possibility of operations according to particular needs of the users.

They are all delivered with two keys. The key is removable when the switches are either in the ON or in the OFF position.

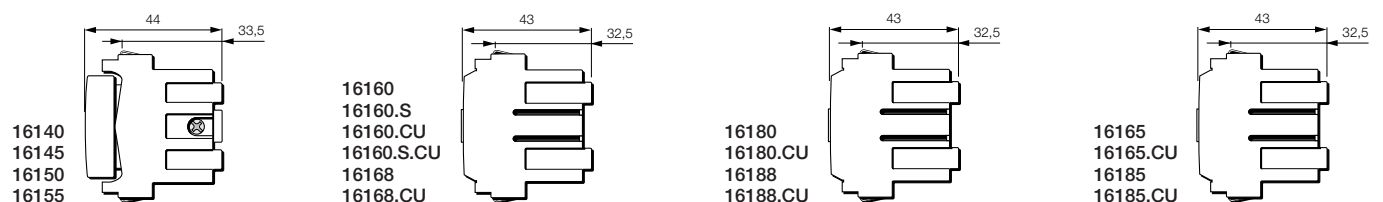
By request the switches can be supplied with the key removable in the ON position only.



#### IMPORTANT

Vimar has a range of 100 different combination keys used at random in every produced lot, this guaranteeing that each packing unit of 20 pieces will be provided with 20 different combination keys.

**Dimensions (mm)** Side views show the overall dimensions and the flush depth



## Switches with directional arrows 250 V~

Grey	White	
16140	.B	1P 10 AX 250 V~ switch (3 terminals) with directional arrows and central OFF position
16145	.B	2P 10 AX 250 V~ switch (6 terminals) with directional arrows and central OFF position
16150	.B	1P 10 A 250 V~ 2-way push button (3 terminals) with directional arrows and central OFF position
16155	.B	2P 10 A 250 V~ 2-way push button (6 terminals) with directional arrows and central OFF position

16140  
16145  
16150  
16155



16140.B  
16145.B  
16150.B  
16155.B



## 1P key operated switches 250 V~

Grey	White	
16160	.B	1P 16 AX 250 V~ 1-way switch
16160.CU	.B	As above, with unified key codified 000
16160.S	.B	1P 16 AX 250 V~ 1-way switch, key removable in 'O' (OFF) position only
16160.S.CU	.B	As above, with unified key codified 000
16168	.B	1P 16 AX 250 V~ switch, 1 NO contact + 1 NC contact
16168.CU	.B	As above, with unified key codified 000

16160...  
16160.S...  
16168...



16160...B  
16168...B



16180	.B	1P NO 16 A 250 V~ push button
16180.CU	.B	As above, with unified key codified 000
16188	.B	1P 16 A 250 V~ push button, 1 NO contact + 1 NC contact
16188.CU	.B	As above, with unified key codified 000

16180...  
16188...



16180...B  
16188...B



## 2P key operated switches 250 V~

Grey	White	
16165	.B	2P 16 AX 250 V~ 1-way switch
16165.CU	.B	As above, with unified key codified 000
16165.S	.B	2P 16 AX 250 V~ 1-way switch, key removable in 'O' (OFF) position only
16165.S.CU.B		As above, with unified key codified 000
16185	.B	2P NO 16 A 250 V~ push button
16185.CU	.B	As above, with unified key codified 000

16165...  
16165.S...  
16185...



16165...B  
16165.S...B  
16185...B



## Switches

### Technical characteristics

#### Scope

Switching on and off of lights, control of motor driven appliances (fans, ventilators, canopy hoods, etc.)

#### Advantages and use

- wiring installations are easier and simpler
- old installations can be more easily renewed
- limitless number of operating points without changing the main configuration

#### Conformity to Standards

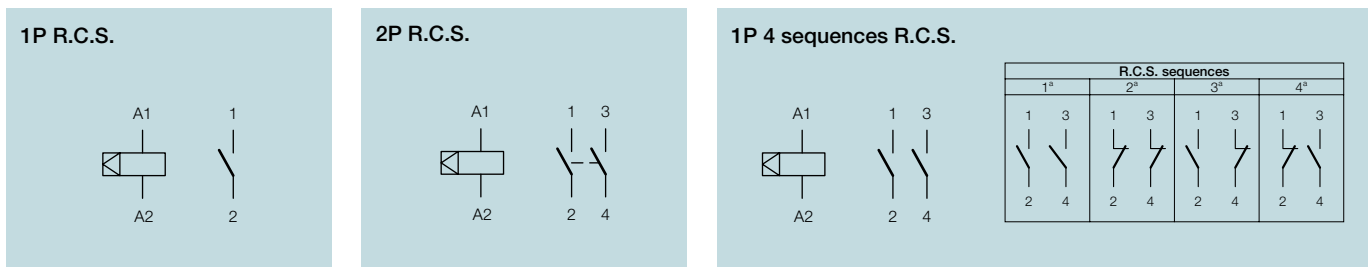
LV Directive

Standard EN 60669-2-2

#### Technical specifications

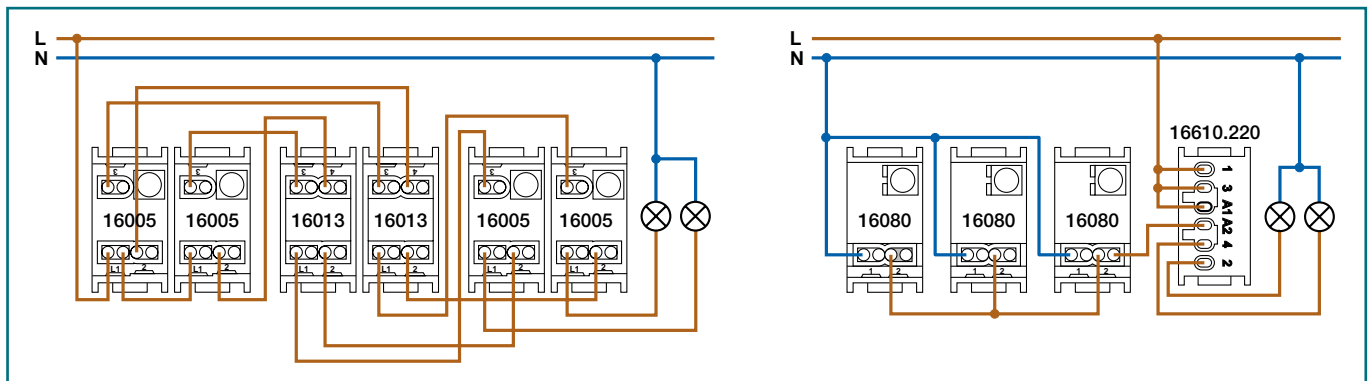
- functions range: 1P R.C.S., 2P R.C.S., 1P 4 sequences R.C.S.
- rated voltage of the coil: 12 V~ or 220 V~
- contacts rating: 10 AX 250 V~
- rated power of the coil: 4,5 VA
- contact mini-gap (m)
- insulation resistance tested with 500 V: > 5 MΩ at 500 V d.c.
- dielectric strength 2000 V~
- minimum breaking capacity:  
200 operations with 1,25 In 275 V~ cos φ 0,3 and 200 operations with 1,2 In 250 V~, with load of tungsten filament lamps
- minimum electrical life: 40,000 operations with rated current and voltage cos φ 0,6

### Diagrams



### Example of standard installation and installation with R.C.S.s

Standard installation with 2-way and reversing switches compared with the same installation realized with R.C.S (4 sequences operation) and non luminous push buttons.

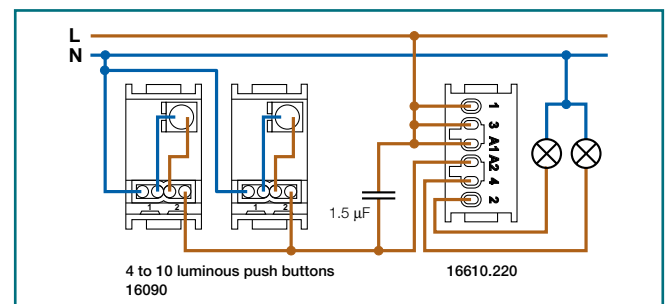


### Installation realized with R.C.S. and luminous push buttons

Max 3 luminous push buttons with signalling unit can be parallel connected.

Connect in parallel one 1,5 μF capacitor to the R.C.S. coil to use up to 10 luminous push buttons.

To use a greater number, it is suggested to connect their signalling unit directly to the two supply conductors.



## Remote control switches (R.C.S.)

Grey	White	
16610.012	.B	1P 10 AX R.C.S. 250 V~ m with 12 V~ 50-60 Hz coil
16610.220	.B	1P 10 AX R.C.S. 250 V~ m with 220 V~ 50-60 Hz coil
16612.012	.B	1P 10 AX 4 sequences R.C.S. 250 V~ m with 12 V~ 50-60 Hz coil
16612.220	.B	1P 10 AX 4 sequences R.C.S. 250 V~ m with 220 V~ 50-60 Hz coil

16610...  
16612...



16610...B  
16612...B



16616.012	.B	2P 10 AX R.C.S. 250 V~ m with 12 V~ 50-60 Hz coil
16616.220	.B	2P 10 AX R.C.S. 250 V~ m with 220 V~ 50-60 Hz coil

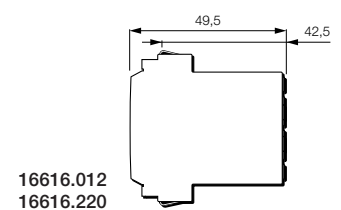
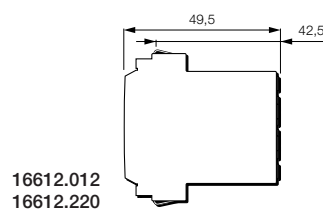
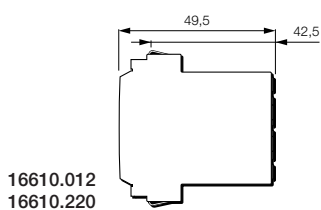
16616...



16616...B



## Dimensions (mm) Side views show the overall dimensions and the flush depth





## Switches

### Technical characteristics

#### Scope

Automatic switch-on of equipments when persons or animals cross the detection area of the motion sensor.

#### Installation

- indoor installation
- flush mounting installation: 1,1-1,2 m above floor level
- can be installed on orientable support 16835
- possibility of using several infrared switches connected in parallel for controlling one or more lamps
- possibility of "bypassing" or interrupting the output circuit with normal electromechanical switches

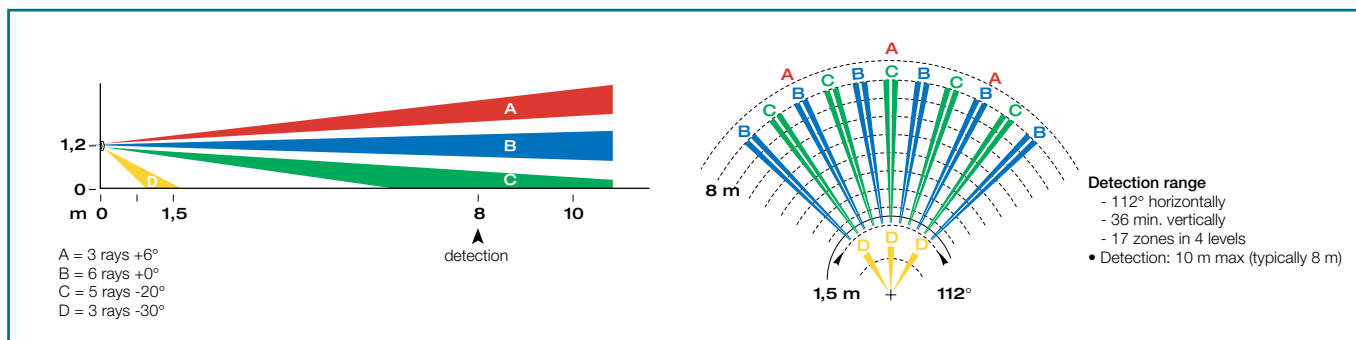
#### Conformity to Standards

LV Directive  
EMC Directive  
Standard EN 60669-2-1

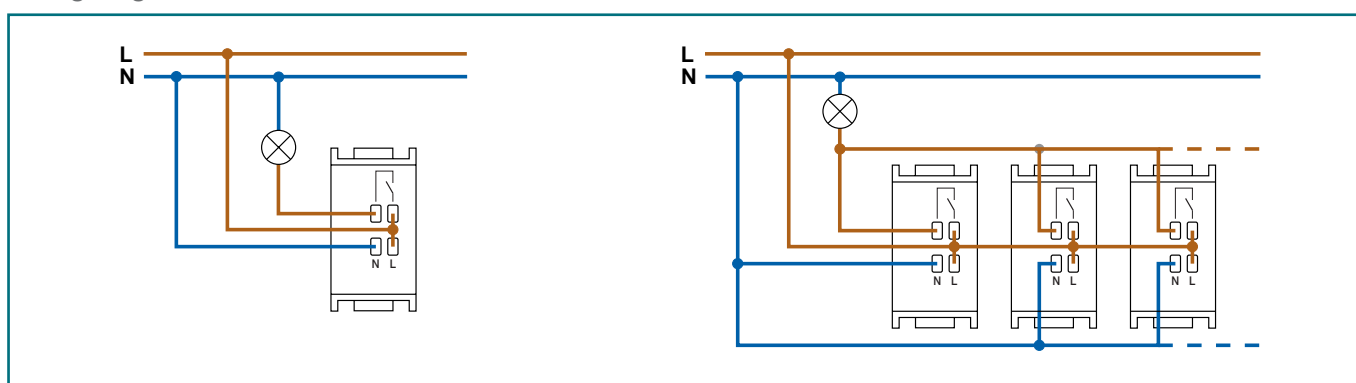
#### Technical specifications

- supply voltage:
  - 16631: 230 V~** 50-60 Hz, relay output: NO 6 A 230 V~
  - 16632: 120 V~** 50-60 Hz, relay output: NO 6 A 120 V~
- controllable loads:
  - purely resistive loads  $\sim$ : 6 A
  - incandescent lamps  $\text{⊗}$ :
    - 16631: 600 W
    - 16632: 300 W
  - iron-core transformers for extra low voltage incandescent lamps (for example, halogen lamps)  $\text{⊗}$ :
    - 16631: 600 W
    - 16632: 300 W
- not suitable for direct control of fluorescent lamps
- front-mounted twilight sensor positioned under the Fresnel lens, with trigger threshold adjustable from approximately 5 lx to "daylight" using the front-mounted trimmer
- time delay adjustable from 15 s to approximately 3 min using the front-mounted trimmer
- pyroelectric sensor and Fresnel lens with angle of detection
- operating temperature: 0 - 40 °C

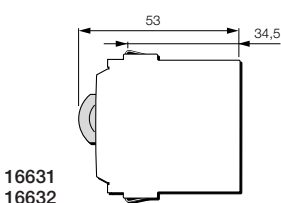
#### Detection range



#### Wiring diagrams of IR switches



#### Dimensions (mm) Side views show the overall dimensions and the flush depth



## IR switches

	Grey	White	
16631	.B		Automatic lighting switch with IR motion sensor, adjustable dusk/dawn sensor threshold and time delay cycle, NO 6 A 230 V~ relay output, supply voltage <b>230 V~</b> 50-60 Hz
16632	.B		Automatic lighting switch with IR motion sensor, adjustable dusk/dawn sensor threshold and time delay cycle, NO 6 A 120 V~ relay output, supply voltage <b>120 V~</b> 50-60 Hz

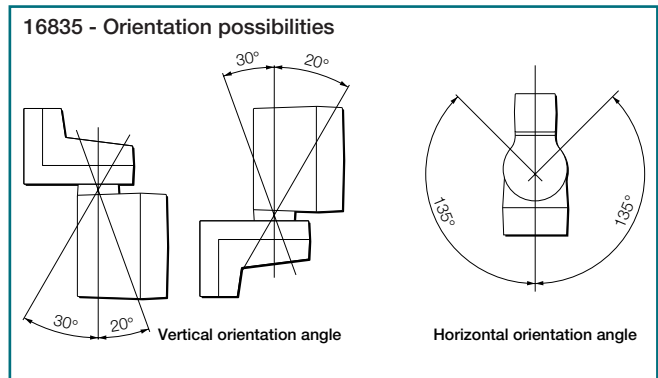
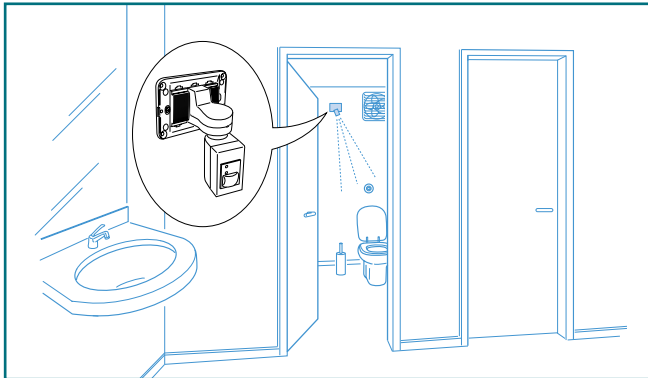


## 1-module orientable supports

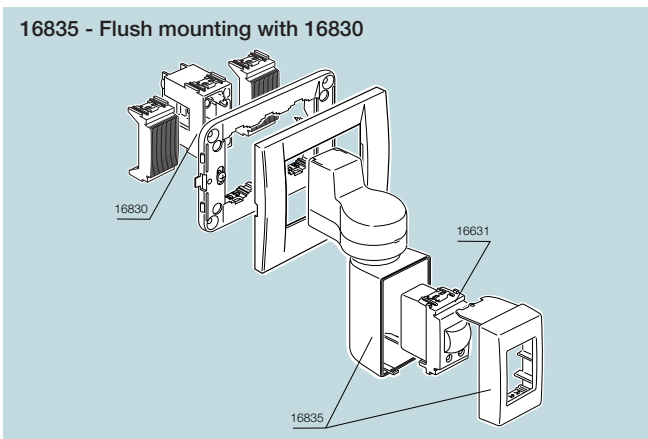
	Grey	White	
16835	.B		Orientable support for automatic lighting switch with IR motion sensor (16631 and 16632) or for 1-module Idea equipments
16830			Adaptor for flush mounting on Idea mounting frames of orientable support 16835
16831	.B		Frame for the surface mounting of the orientable support 16835



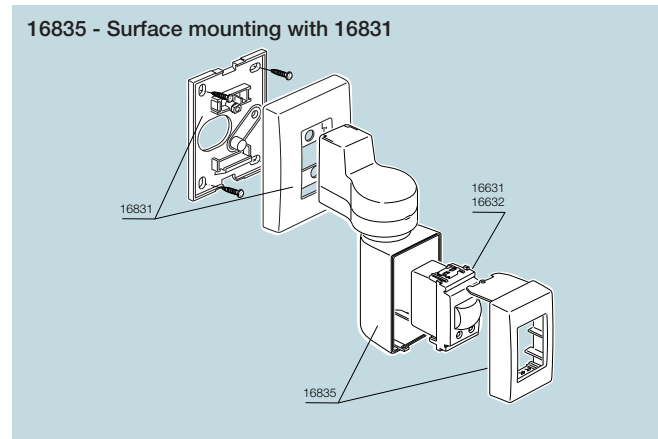
## 16631 and 16632 - Example of use with 16835



### 16835 - Flush mounting with 16830



### 16835 - Surface mounting with 16831



### Technical characteristics

#### Scope

Supply of electrical household appliances, lighting fittings, etc.

#### Conformity to Standards

Italian Standard CEI 23-50 (IEC 60884-1)

#### Technical specifications of Italian standard socket outlets

- supply voltage: 250 V~
- rated current 10 A or 16 A
- shuttered socket-contacts (degree of protection 2.1 according to Italian standard CEI 23-16; increased protection according to Italian standard CEI 23-50)
- insulation resistance tested with 500 V d.c.: > 5 MΩ
- dielectric strength: 2000 V~

- breaking capacity: 50 operations (plug insertion and withdrawn) with 1,25 rated current 275 V~ cos φ 0,6
- electrical life: > 5000 operations (plug insertion and withdrawn) with rated current and voltage cos φ 0,6
- resilient wrap socket-contacts
- priority of connection on earthing socket-contacts

#### Plugs and socket outlets - matching possibilities

● Plugs and socket outlets matching standards

Plugs standard	VIMAR products								
		P11 16201 - 16201.B	P17 16202 - 16202.B	P17/11 16203 - 16203.B	16205 - 16205.B	P30 16209 - 16209.B	16210 - 16210.B	16211 - 16211.B	
 2P 10 A	MILLE	S10 01020 - 01020.B	---	01020 - 01020.B	---	01020 - 01020.B	01020 - 01020.B	01020 - 01020.B	
		S10 01040 - 01040.B	---	01040 - 01040.B	---	---	---	---	
		S10 01045 - 01045.B	---	01045 - 01045.B	---	01045 - 01045.B	01045 - 01045.B	01045 - 01045.B	
	SUPERNOVA	S10 00200 - 00200.B	---	00200 - 00200.B	---	00200 - 00200.B	00200 - 00200.B	00200 - 00200.B	
 2P 2.5 A		●	---	●	---	●	●	●	
 2P+E 10 A	MILLE	S11 01021 - 01021.B	---	01021 - 01021.B	---	01021 - 01021.B	01021 - 01021.B	01021 - 01021.B	
		SPA11 01041 - 01041.B	---	01041 - 01041.B	---	---	---	---	
		S11 01046 - 01046.B	---	01046 - 01046.B	---	01046 - 01046.B	01046 - 01046.B	01046 - 01046.B	
	SUPERNOVA	S11 00201 - 00201.B	---	00201 - 00201.B	---	00201 - 00201.B	00201 - 00201.B	00201 - 00201.B	
		SPA11 00206 - 00206.B	---	00206 - 00206.B	---	---	---	---	
		S11 00211 - 00211.B	---	00211 - 00211.B	---	00211 - 00211.B	00211 - 00211.B	00211 - 00211.B	
 2P 16 A		---	●	●	●	---	●	●	
 2P+E 16 A	MILLE	S17 ---	01026 - 01026.B	01026 - 01026.B	01026 - 01026.B	---	01026 - 01026.B	01026 - 01026.B	
		SPA17 ---	01043 - 01043.B	01043 - 01043.B	01043 - 01043.B	---	---	---	
		S17 ---	01048 - 01048.B	01048 - 01048.B	01048 - 01048.B	---	01048 - 01048.B	01048 - 01048.B	
	SUPERNOVA	S17 ---	00202 - 00202.B	00202 - 00202.B	00202 - 00202.B	---	00202 - 00202.B	00202 - 00202.B	
		SPA17 ---	00207 - 00207.B	00207 - 00207.B	00207 - 00207.B	---	---	---	
		S17 ---	00212 - 00212.B	00212 - 00212.B	00212 - 00212.B	---	00212 - 00212.B	00212 - 00212.B	
 2P+E 20 A	SUPERNOVA	---	---	---	01074 - 01074.B	---	---	---	
 2P+E 16 A	SUPERNOVA	German standard	---	---	---	00230 - 00230.B	00230 - 00230.B	00230 - 00230.B	
		German + French standard	---	---	---	00231 - 00231.B	00231 - 00231.B	00231 - 00231.B	
		German + French standard	---	---	---	00241 - 00241.B	00241 - 00241.B	00241 - 00241.B	

# Socket outlets

## Italian standard socket outlets 250 V~

Grey	White
16201	.B 2P+E 10 A 250 V~ <b>SICURY</b> socket outlet Italian standard P11
16202	.B 2P+E 16 A 250 V~ <b>SICURY</b> socket outlet Italian standard P17



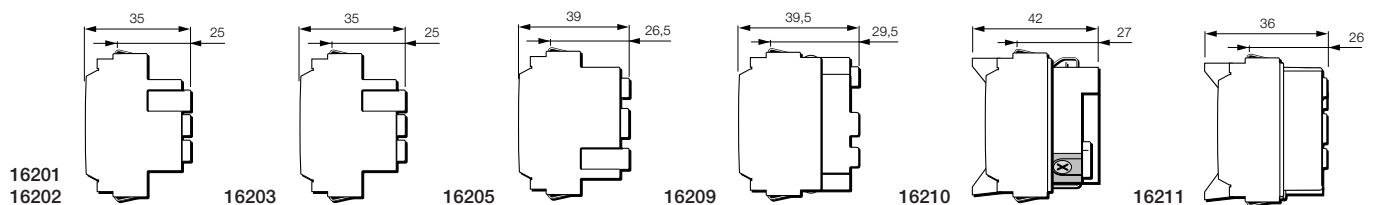
16203	.B 2P+E 16 A 250 V~ Bpresa <b>SICURY</b> socket outlet Italian standard P17/11
16205	.B 2P+E 20 A 250 V~ socket outlet with shutters, for plugs 01074 2P+E 20 A and for plugs 2P and 2P+E 16 A Italian standard
16209	.B 2P+E 16 A 250 V~ <b>SICURY</b> socket outlet Italian standard P30 (lateral and central earth contacts) - 2 modules



16210	.B 2P+E 16 A 250 V~ socket outlet, universal with shutters, for 2P 2,5 A Europlugs, for 2P and 2P+E 10-16 A Italian standard plugs, for 2P+E 16 A German standard plugs, for 2P 15 A 125 V~ American standard plugs with non-polarized flat blades - 2 modules. No earth connection is realized with 2P+E 16 A 250 V~ French standard plug
16211	.B 2P+E 16 A 250 V~ socket outlet, universal with shutters, for 2P 2,5 A Europlugs, 2P and 2P+E 10 A and 16 A Italian standard plugs and 2P+E 16 A German standard plugs - 2 modules. No earth connection is realized with 2P+E 16 A 250 V~ French standard plug



## Dimensions (mm) Side views show the overall dimensions and the flush depth



## Socket outlets

### Technical characteristics

#### Scope

Suitable for use in the service industry, like offices, clinics, doctors' consulting rooms, laboratories, and wherever there are lines dedicated to the supply of equipments which need to continue working even in the event of a power failure (lines protected by generating sets, lines supplied by no-break generating sets, etc.).

The socket outlets for dedicated supply lines are differently coloured (red, orange or green), so that the dedicated supply lines, with a nominal voltage of 230 V~, can be visually identified.

#### Conformity to Standards

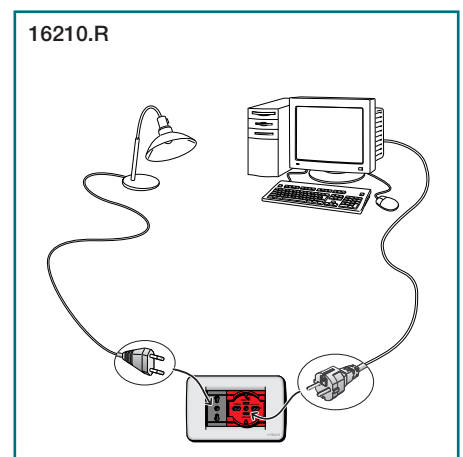
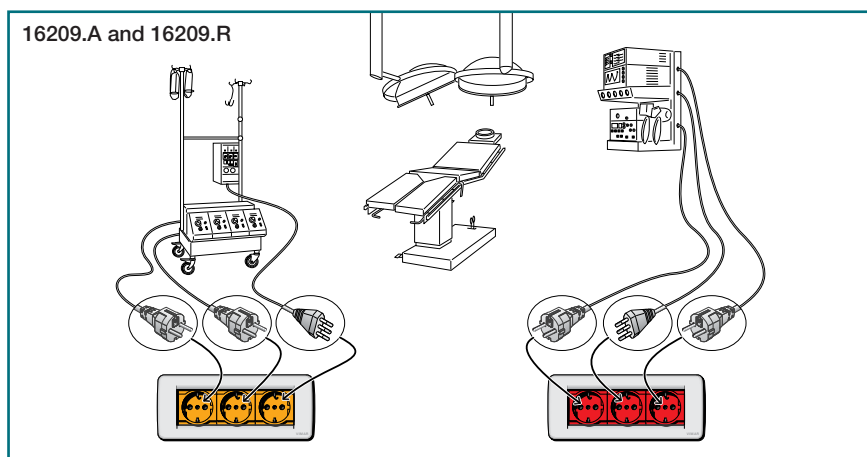
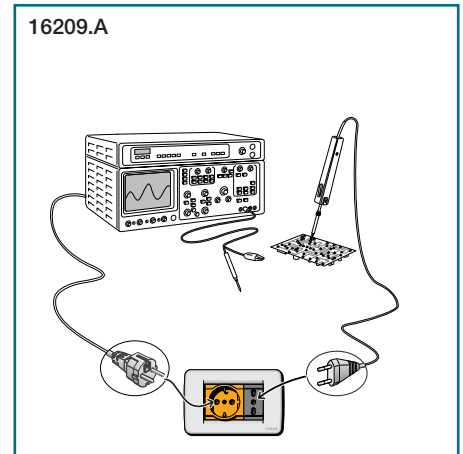
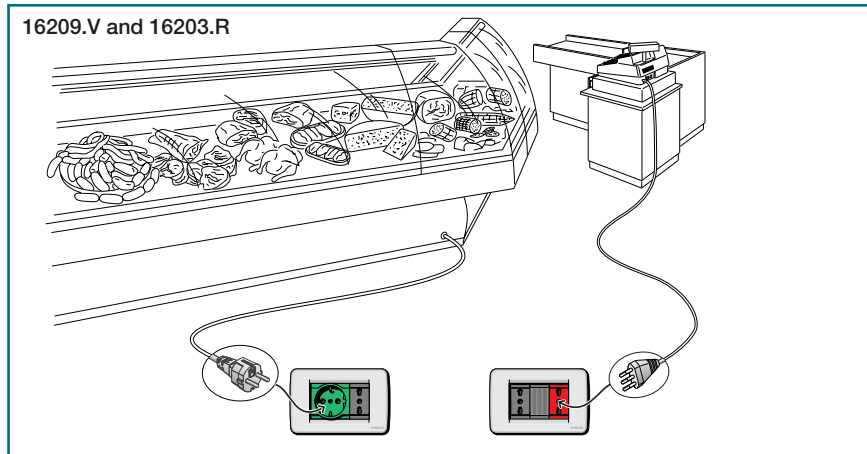
Italian standard CEI 23-50 (IEC 60884-1)

Currently, in Europe, there are no standards in force concerning the correspondence between socket outlet colour and type of supply.

Differentiation is, however, made by field of application:

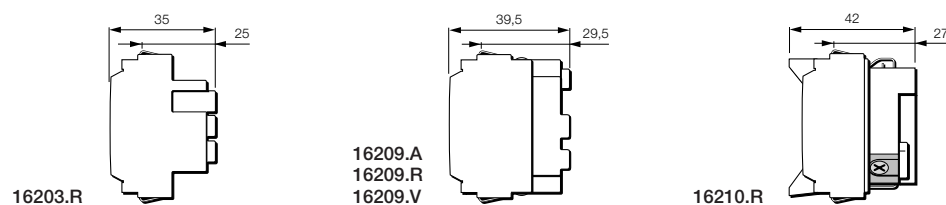
- **Orange colour:** power supply line protected by mains/generating set via an isolating transformer
- **Red colour:** uninterrupted power supply using UPS (Uninterruptible Power Supply) via an isolating transformer.
- **Green colour:** safety supply line from mains/generating set

### Examples of use



### Dimensions (mm)

Side views show the overall dimensions and the flush depth



## Socket outlets 250 V~ for dedicated supply lines

**16203.R** 2P+E 16 A 250 V~ Bpresa **SICURY** socket outlet Italian standard P17/11, red

16203.R



**16209.A** 2P+E 16 A 250 V~ **SICURY** socket outlet Italian standard P30 (lateral and central earth contacts), orange - 2 modules

**16209.R** As above, red

**16209.V** As above, green

16209.A



16209.R



16209.V



**16210.R** 2P+E 16 A 250 V~ socket outlet, universal with shutters, for 2P 2,5 A Europlugs, for 2P and 2P+E 10 A and 16 A Italian standard plugs, for 2P+E 16 A German standard plugs, for 2P 15 A 125 V~ American standard plugs with non-polarized flat blades, red - 2 modules.

No earth connection is realized with 2P+E 16 A 250 V~ French standard plug

16210.R



## Socket outlets

### Technical characteristics

#### Scope

Suitable for use in the service industry, like offices, clinics, doctors' consulting rooms, hospitals, and wherever there are lines dedicated to the supply of equipments which need to continue working even in the event of a power failure (lines protected by generating sets, lines supplied by no-break generating sets, etc.).

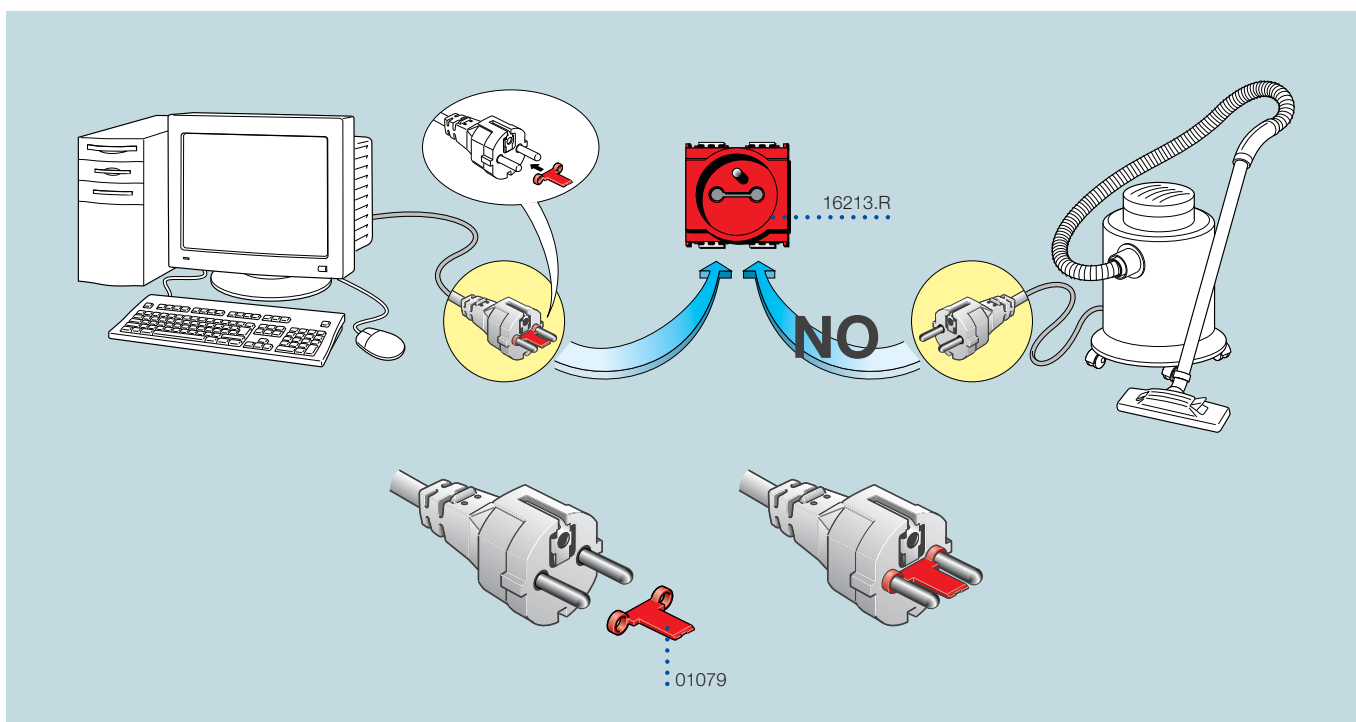
The socket outlets with locking device prevent from inserting a plug which is not fitted with the relevant mechanical releasing device, thus preventing from supplying an equipment which is not suitable for a given supply line.

#### Technical specifications

The socket outlets with locking device are suitable for insertion of the following plugs:

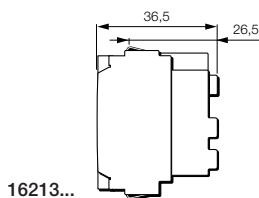
- **00231 - 00231.B:** 2P+E 16 A 250 V~ German/French standard, axial cable entry
- **00232 - 00232.B:** 2P+E 16 A 250 V~ French standard, axial cable entry
- **00241 - 00241.B:** 2P+E 16 A 250 V~ German/French standard, 90° cable entry
- 2P 16 A plug German standard

#### Example of use



#### Dimensions (mm)

Side views show the overall dimensions and the flush depth



## Socket outlets

### Socket outlets 250 V with locking device

**16213** 2P+E 10-16 A 250 V socket outlet, with shutters, French standard, and with locking device for the insertion of special purpose plugs, grey - 2 modules  
Supplied with releasing device 01079

**16213.B** As above, white - 2 modules

16213



16213.B



**16213.R** As above, red - 2 modules

**01079** Spare releasing device for socket outlets with locking device 16213... and 17043..., red

16213.R



01079





## Socket outlets

### Technical characteristics

#### Scope

##### Interlocked socket outlets with circuit breaker (CB)

Equipments suitable to be installed in terminal points for the two-pole protection of the load supplied by the socket outlet, especially electrical household appliances, against short-circuit and overload.

##### Interlocked socket outlets with residual current breaker with overcurrent protection (RCBO)

Equipments suitable to be installed in terminal points for the protection of the load supplied by the socket outlet, especially electrical household appliances, against short-circuit and overload, and for the protection of the user against electrocution.

The residual current operation with sensitivity 10 mA correctly operates even in case of non-sinusoidal fault currents (alternate currents with unidirectional pulsating currents).

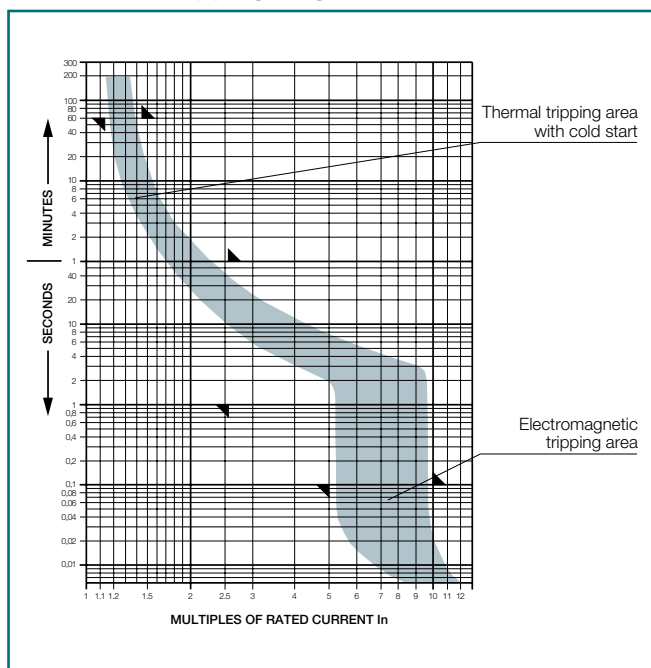
They are particularly suitable for the protection of:

- appliances at the end of the line in locations with high risk of electrocution (bathrooms, shower-baths, etc.)
- socket outlets for the supply of class I appliances with electronic circuits
- socket outlets for the supply of portable appliances in residential and similar applications (electric irons, electrical tools, etc.)

#### Conformity to Standards

- For the socket outlet function: Italian Standard CEI 23-50 (IEC 60884-1)
- For the circuit breaker: LV Directive, Standard EN 60898
- For the residual current breaker with overcurrent protection: LV Directive and EMC Directive, Standard EN 61009-1

#### Current-time tripping diagram




#### Technical specifications

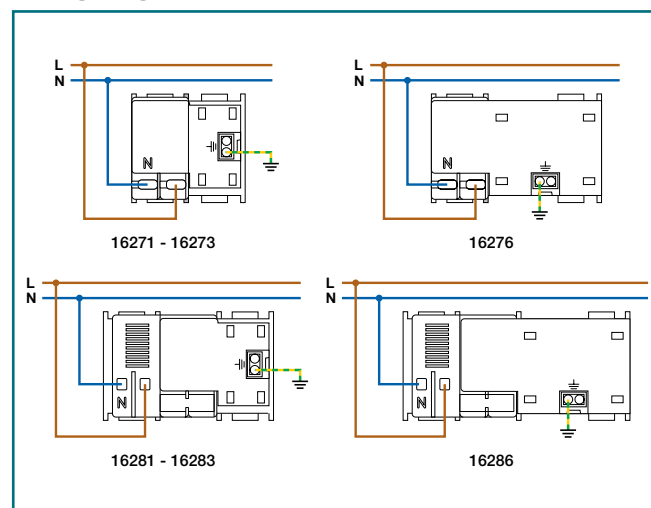
The interlocked circuit breaker or the interlocked residual current breaker with overcurrent protection (CB or RCBO) associated to the socket outlet supply the socket-contacts only when the plug is fully inserted and automatically stop the supply before the complete withdrawn of the plug.

The plug is thus always inserted and withdrawn without arching. The switch lever, when the plug is not inserted into the socket outlet, is idle and cannot close the switch.

The interlocked socket outlets with RCBO are equipped with:

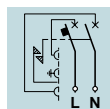
- **internal temperature monitoring function:** an internal device monitors the temperature and, when the safety threshold is exceeded, automatically opens the switch
- **function which monitors the electrical continuity of the residual current sensor secondary, and which opens the switch if the continuity fails:** this is a useful self-test function of the residual current switch
- **over-voltage protection function:** if the voltage at the switch inputs exceeds an established threshold, the contact is opened. This function also assists the installer in three-phase systems, by preventing the erroneous “phase-phase” connection instead of “phase-neutral”
- supply voltage: 120-230 V~ -15% +10% 50-60 Hz
- residual current (sensitivity):  $I_{\Delta n}$  10 mA
- operation depending on the mains voltage (standard EN 61009-1, § 4.1.2): to be connected after a master RCBO
- socket outlet side: page 34
- interlocking device, VIMAR patent
- C type magneto-thermic action (see current-time tripping diagram)
- two-pole disconnection with 1 protected pole
- breaking capacity: 3000 A
- rated current according to the socket outlet standard
- A type equipment for alternating and unidirectional pulsating fault currents 
- green light frontal LED: when illuminated, it indicates normal operations, i.e. mains voltage present and contacts closed.
- dimensions: page 42

#### Wiring diagrams for interlocked socket outlets



## Socket outlets

### Interlocked socket outlets with CB



Grey      White

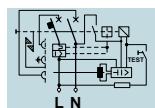
16271	.B	2P+E 10 A <b>SICURY</b> socket outlet Italian standard P11, interlocked with 1P+N C 10 circuit breaker, supply voltage 120-230 V~ 50-60 Hz, breaking capacity 3000 A - 2 modules
16273	.B	2P+E 16 A Bpresa <b>SICURY</b> socket outlet Italian standard P17/11, interlocked with 1P+N C 16 circuit breaker, supply voltage 120-230 V~ 50-60 Hz, breaking capacity 3000 A - 2 modules



16276	.B	2P+E 16 A <b>SICURY</b> socket outlet Italian standard P30 (lateral and central earthing contacts), interlocked with 1P+N C 16 circuit breaker, supply voltage 120-230 V~ 50-60 Hz, breaking capacity 3000 A - 3 modules
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### Interlocked socket outlets with RCBO



Grey      White

16281	.B	2P+E 10 A <b>SICURY</b> socket outlet Italian standard P11, interlocked with 1P+N C 10 residual current breaker with overcurrent protection, supply voltage 120-230 V~ 50-60 Hz, $I_{\Delta n}$ 10 mA, breaking capacity 3000 A - 3 modules
-------	----	---



16283	.B	2P+E 16 A Bpresa <b>SICURY</b> socket outlet Italian standard P17/11, interlocked with 1P+N C 16 residual current breaker with overcurrent protection, supply voltage 120-230 V~ 50-60 Hz, $I_{\Delta n}$ 10 mA, breaking capacity 3000 A - 3 modules
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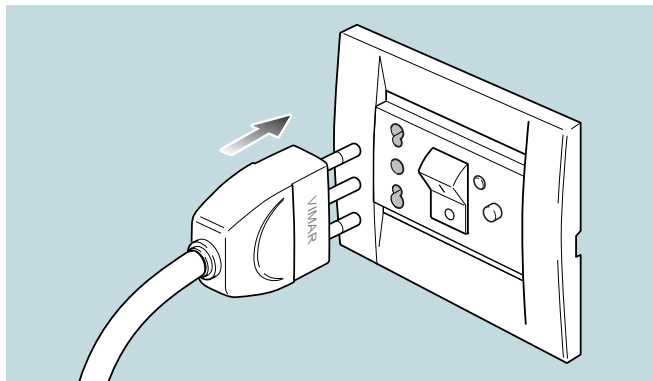


# Socket outlets

## Technical characteristics

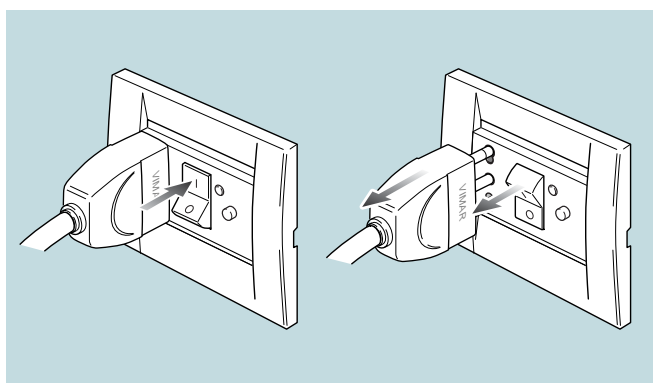
### Interlocked socket outlets

“Technical specifications”: see page 40



#### 1. Equipment at rest

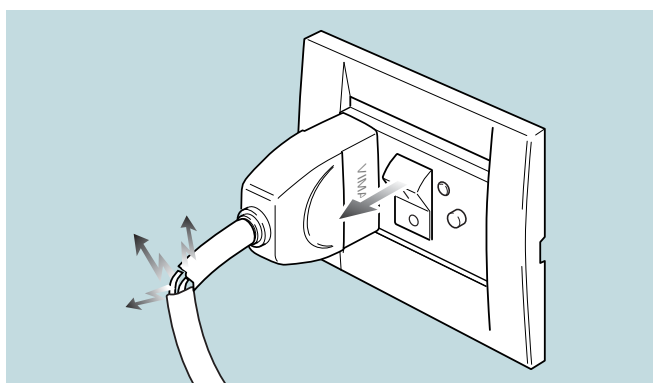
No voltage reaches the socket-contacts of the socket outlet; the switch lever is idle: there is no possibility of contact, even intentional, with live parts



#### 2. Plug insertion and withdrawn

The switch can be closed to supply the socket outlet, only when the plug is fully inserted.

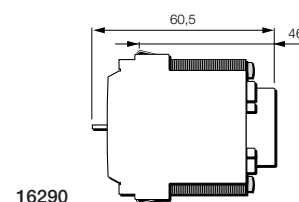
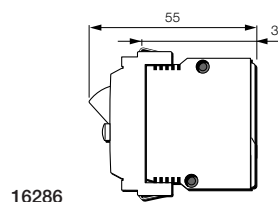
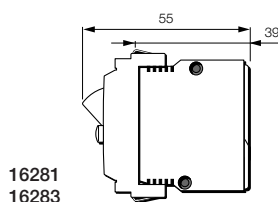
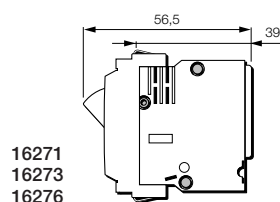
As soon as the plug starts being withdrawn, the switch opens: plug insertion and withdrawn take always place in absence of voltage on the socket-contacts of the socket outlet.



#### 3. Switch tripping

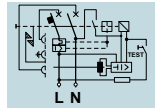
The switch (CB) trips in case of short-circuit or overload; if provided with residual current operated function (RCBO), it also trips in case of direct or indirect contacts.

### Dimensions (mm) Side views show the overall dimensions and the flush depth



# Socket outlets

## Interlocked socket outlets with RCBO (continued)



Grey	White
16286	.B

2P+E 16 A **SICURY** socket outlet Italian standard P30 (lateral and central earthing contacts), interlocked with 1P+N C 16 residual current breaker with overcurrent protection, supply voltage 120-230 V~ 50-60 Hz,  $I_{\Delta n}$  10 mA, breaking capacity 3000 A - 4 modules



## Shaver supply units

Grey	White
16290	.B

Shaver supply unit with 20 VA isolating transformer, input voltage 230 V~ 50-60 Hz, output voltage 120 V~ for 2P 15 A 125 V~, American standard plugs with non-polarized flat blades, output voltage 230 V~ for 2P 2,5 A Europlugs - 3 modules



## Shaver supply units

The shaver supply unit is provided with a built-in isolating transformer rated 20 VA, which is protected against overload and supplied through the push button directly actuated on insertion of the plug.

The secondary circuit (on which the socket contacts terminate) is separated from the primary power supply circuit by a double insulation : this makes superfluous any additional safety measure on the socket outlets (shutters).

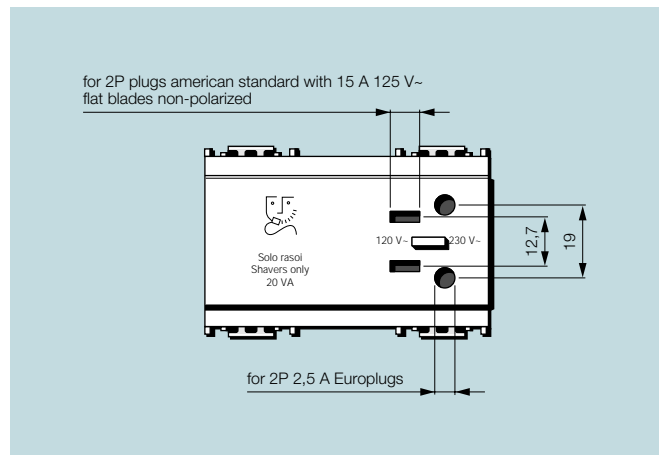
### Technical specifications

- supply voltage: 230 V~ 50-60 Hz
- output voltage:
  - 230 V~ for 2P 2,5 A Europlugs
  - 120 V~ for 2P 15 A 125 V~ plugs American standard non-polarized with flat blades
- max load: 20 VA
- built-in overload protection with automatic reset

### Conformity to Standards

LV Directive  
Standard EN 61558-2-5

## Socket-contacts standards



### Technical characteristics

#### Other standard plugs and socket outlets

	16208	16212	16225	16226	16232	16233	16258	16260
Italian standard plug S10	●	●	●		●	●		
2P 2,5 A Europlug	●	●	●	●	●	●		
2P+E 16 A 250 V~ German standard plug	●						●	
2P+E 16 A 250 V~ German/French standard plug	●	●					●	
2P+E 16 A 250 V~ French standard plug		●					●	
2P+E 10 A 250 V~ Swiss standard plug			●	●				
2P 15 A 125 V~ American standard plug					●	●		
2P 15 A 250 V~ American standard plug					●	●		
2P+E 16 A 250 V~ English standard plug							●	
2P+E 13 A 250 V~ English standard plug								●

- Standard plug matching the socket outlet
- Standard plug matching the socket outlet without continuity of the earthing connection

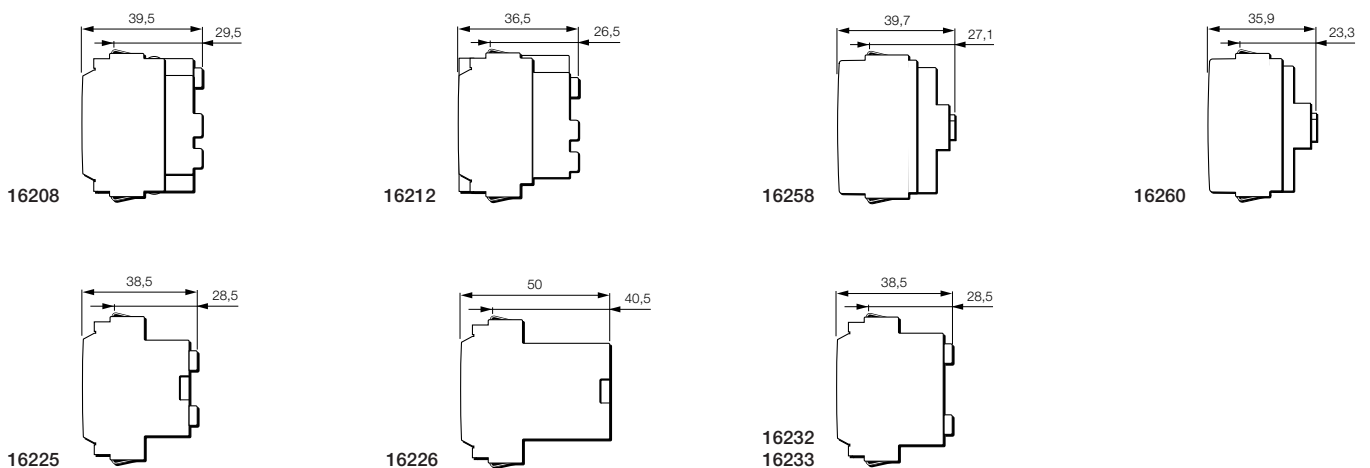
#### Conformity to Standards

- German standard socket outlets: standards VDE 0624-1
- French standard socket outlets: standard NF C 61-303
- Swiss standard socket outlets: standard SEV 1011

#### Other standard VIMAR plugs

- **00230**: 2P+E 16 A 250 V~ German standard
- **00231**: 2P+E 16 A 250 V~ German/French standard
- **00232**: 2P+E 16 A 250 V~ French standard
- **00241**: 2P+E 16 A 250 V~ German/French standard

#### Dimensions (mm) Side views show the overall dimensions and the flush depth



## Socket outlets

### Other standard socket outlets

Grey	White
<b>16208</b>	<b>.B</b> 2P+E 16 A 250 V~ <b>SICURY</b> socket outlet, German standard - 2 modules
<b>16212</b>	<b>.B</b> 2P+E 10-16 A 250 V socket outlet with shutters, French standard - 2 modules



<b>16258</b>	<b>.B</b> 2P+E 16 A 250 V~ socket outlet with shutters, English standard - 2 modules
<b>16260</b>	<b>.B</b> 2P+E 13 A 250 V~ socket outlet with shutters, English standard - 2 modules



<b>*16225</b>	<b>.B</b> 2P+E 10 A 250 V~ socket outlet, Swiss standard, 12 type
<b>*16226</b>	<b>.B</b> 2P+E 10 A 250 V~ socket outlet, Swiss standard, 13 type



<b>*16232</b>	<b>.B</b> 2P 15 A 250 V~ socket outlet, for 2P plugs American standards (15 A 125 V~ flat blades polarized and non-polarized + 15 A 250 V~ flat blades) and for 2P plugs with ø 4 mm pins, 19 mm distance between centres
<b>*16233</b>	<b>.B</b> 2P 15 A 250 V~ socket outlet, for 2P plugs American standards (15 A 125 V~ flat blades polarized and non-polarized + 15 A 250 V~ flat blades) and for 2P plugs with ø 4 and ø 4,8 mm pins, 19 mm distance between centres



\* Only for Countries not members of the EU

### Technical characteristics

#### Other standard plugs and socket outlets

	16245	16246	16247	16250	16251
2P 15 A 125 V~ plug American standard	●	●			
2P+E 15 A 127 V~ plug American standard	●	●			
2P 15 A 250 V~ plug American standard			●		
2P+E 15 A 250 V~ plug American standard			●		
2P+E 10 A 250 V~ plug Argentinian standard				●	
2P+E 10 A 250 V plug Chinese standard					●

● Standard plug matching the socket outlet

#### Conformity to Standards

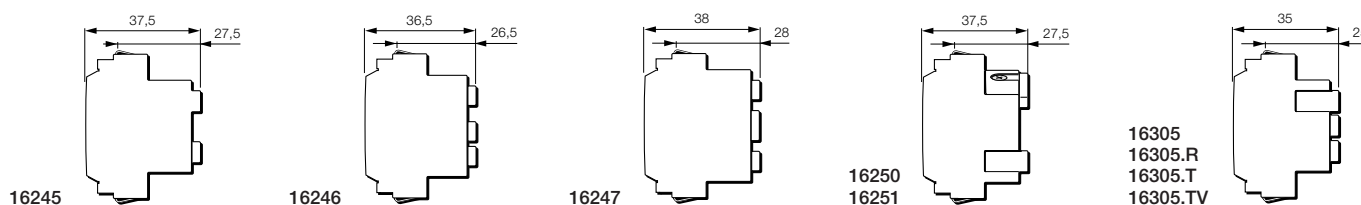
- Argentinian standard socket outlets: Standard IRAM 2071
- Chinese standard socket outlets: Standards GB 2099.1, GB 1002

#### Other standard VIMAR plugs

- **01096**: 2P+E 15 A 127 V~ American and Saudi Arabian standards
- **01105**: 2P+E 15 A 250 V~ American standard

#### Dimensions (mm)

Side views show the overall dimensions and the flush depth



## Socket outlets

### Other standard socket outlets (continued)

Grey	White	
*16245	.B	2P+E 15 A 127 V~ socket outlet, American and Saudi Arabian standards
*16246	.B	2P+E 15 A 127 V~ double socket outlet, American and Saudi Arabian standards - 3 modules



*16247	.B	2P+E 15 A 250 V~ socket outlet, American standard
*16250	.B	2P+E 10 A 250 V~ socket outlet, Argentinian standard
*16251	.B	2P+E 10 A 250 V~ socket outlet, Chinese standard



*16305	.B	2P 10 A 250 V~ socket outlet, recessed socket-contacts, for 2P plugs with ø 4 mm pins, 19 mm distance between centres
*16305.R	.B	2P 10 A 250 V~ socket outlet, recessed socket-contacts, for 2P plugs with ø 4 mm pins, 19 mm distance between centres, radio symbol



*16305.T	.B	2P 10 A 250 V~ socket outlet, recessed socket-contacts, for 2P plugs with ø 4 mm pins, 19 mm distance between centres, telephone symbol
*16305.TV	.B	2P 10 A 250 V~ socket outlet, recessed socket-contacts, for 2P plugs with ø 4 mm pins, 19 mm distance between centres, television symbol



\* Only for Countries not members of the EU



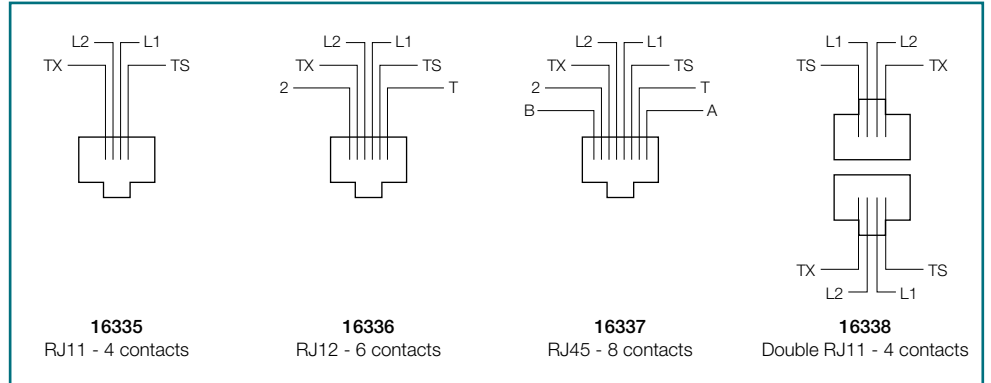
# Socket outlets for signal reception

## Technical characteristics

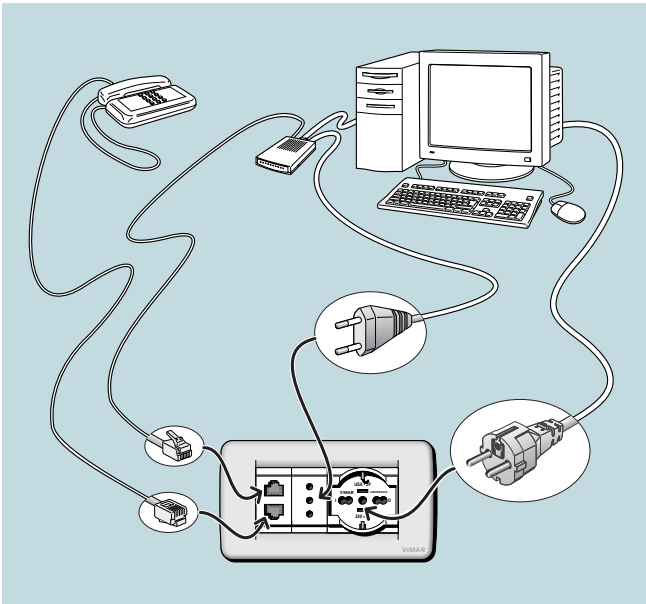
Telephone socket outlets

Technical specifications  
- screw terminal connection

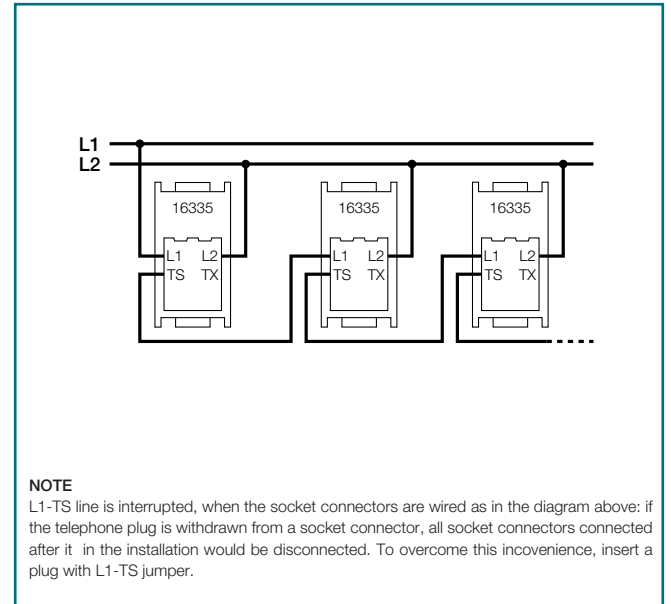
Possible connections for telephone socket outlets



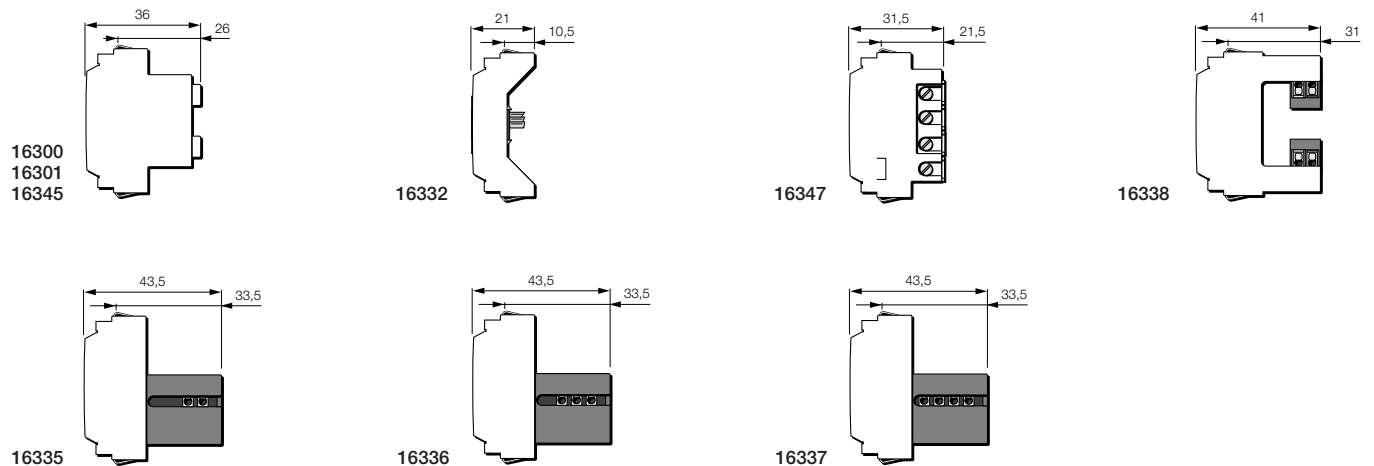
### 16338 - Example of use



### Wiring diagram for 16335



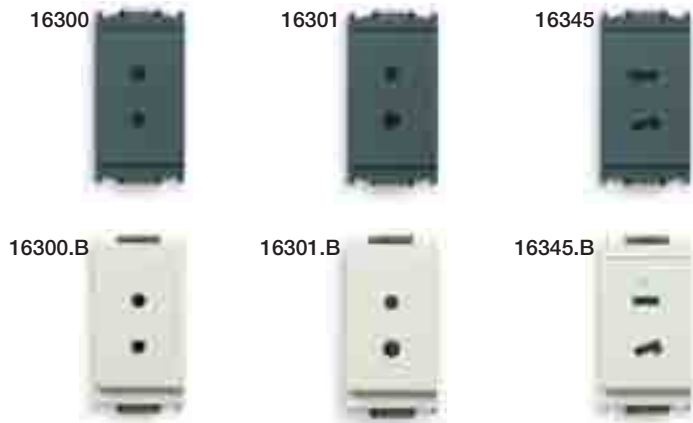
### Dimensions (mm) Side views show the overall dimensions and the flush depth



## Socket outlets for signal reception

### Special socket outlets

Grey	White
16300	.B 2P 6 A 24 V (SELV) socket outlet for plug 01620 (ø 3 mm pins, 12,4 mm distance between centres ). For auxiliary circuits
16301	.B 2P 6 A 24 V (SELV) polarized socket outlet for plugs 01616 and 01617 (1 ø 3 mm pin and 1 ø 4 mm pin, 12,4 mm distance between centres). For Hi-Fi installations, HFTR reception, etc.
16345	.B 2P 6 A 24 V (SELV), polarized socket outlet for plug 01099



16332	.B 5-pole DIN 41524 socket connector. For phonic circuits, Hi-Fi and similar installations
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### Telephone socket outlets

Grey	White
16335	.B RJ11 socket connector, 4 contacts, screw terminals
16336	.B RJ12 socket connector, 6 contacts, screw terminals
16337	.B RJ45 socket connector, 8 contacts, screw terminals
16338	.B Double RJ11 socket connector, 4 contacts, screw terminals



### Other standard telephone socket outlets

Grey	White
16347	.B Telephone socket outlet, 8 contacts, French standard



## Socket outlets for signal reception

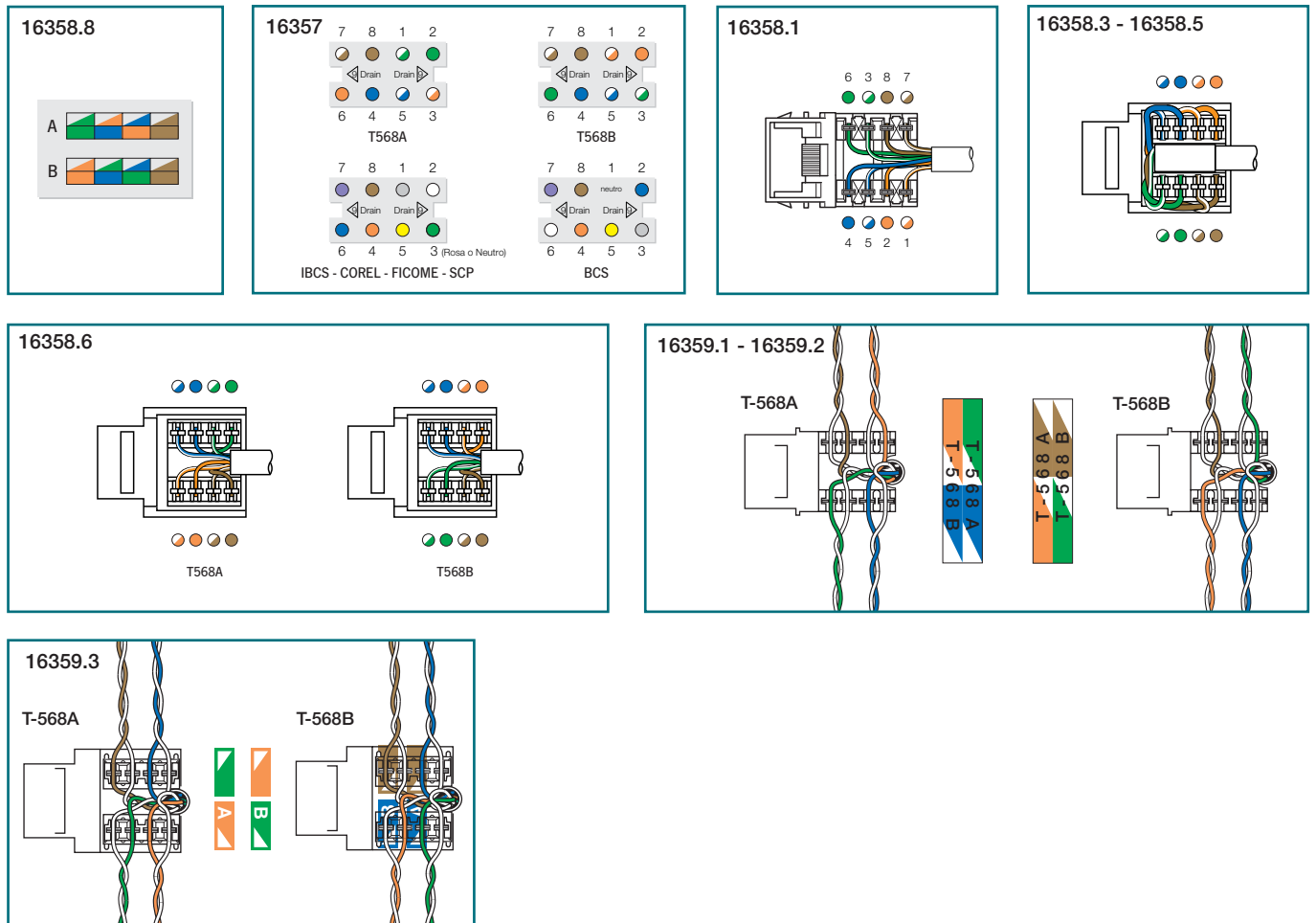
### Technical characteristics

#### EDP socket outlets

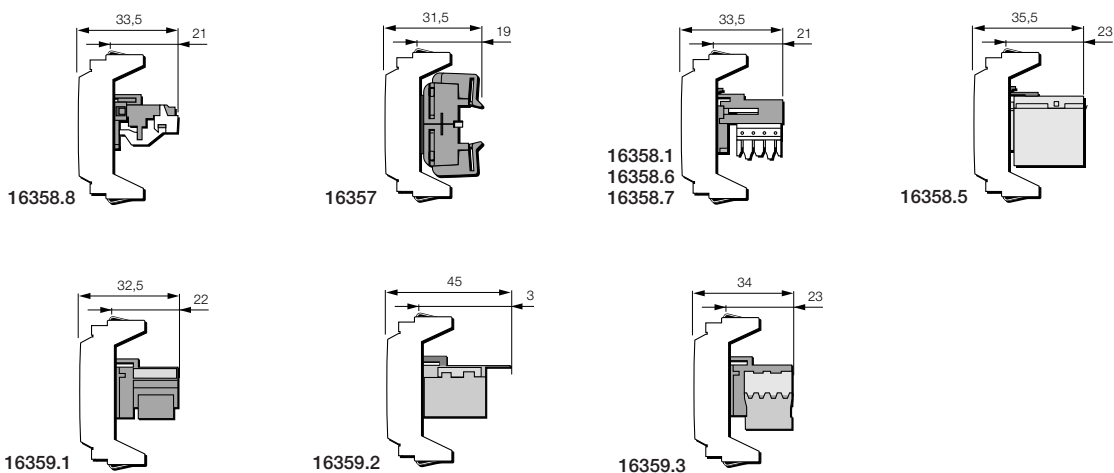
#### Scope

Equipments designed to realize information or telephone networks.

#### Colour coded wiring



#### Dimensions (mm) Side views show the overall dimensions and the flush depth



## Socket outlets for signal reception

### EDP socket outlets

Grey      White

<b>16358.8</b>	<b>.B</b>	RJ45 outlet with Vimar Netsafe connector, category 5e, unshielded, T568A/B universal wiring, 8 contacts, insulation-piercing terminals
<b>16357</b>	<b>.B</b>	RJ45 outlet with Pouyet connector, category 5, unshielded, T568A/B universal wiring, 8 contacts + earth terminal, insulation-piercing terminals, frontal selector for analogic or digital plugs

16358.8



16357



16358.8.B



16357.B



<b>16358.1</b>	<b>.B</b>	RJ45 outlet with AT&T/ Lucent Technologies/Avaya connector (MPS100E), category 5e, unshielded, T568A/B universal wiring, 8 contacts, insulation-piercing terminals
<b>16358.5</b>	<b>.B</b>	RJ45 outlet with AMP connector category 5, shielded, T568B wiring, 8 contacts, insulation-piercing terminals

16358.1



16358.5



16358.1.B



16358.5.B



<b>16358.6</b>	<b>.B</b>	RJ45 outlet, with AMP/Tyco connector, category 5e, unshielded, T568A/B universal wiring, 8 contacts, insulation-piercing terminals
<b>16358.7</b>	<b>.B</b>	RJ45 outlet, with AMP/Tyco connector, category 5e, shielded, T568A/B universal wiring, 8 contacts, insulation-piercing terminals

16358.6



16358.7



16358.6.B



16358.7.B



<b>16359.1</b>	<b>.B</b>	RJ45 outlet with Vimar Netsafe connector, category 5e, unshielded, T568A/B universal wiring, 8 contacts, 110 type insulation-piercing terminals
<b>16359.2</b>	<b>.B</b>	RJ45 outlet with Vimar Netsafe connector, category 5e, shielded, T568A/B universal wiring, 8 contacts, 110 type insulation-piercing terminals
<b>16359.3</b>	<b>.B</b>	RJ45 outlet with Vimar Netsafe connector, category 6, unshielded, T568A/B universal wiring, 8 contacts, 110 type insulation-piercing terminals

16359.1



16359.2



16359.3



16359.1.B



16359.2.B



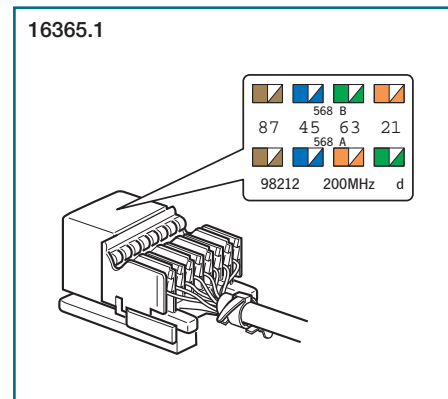
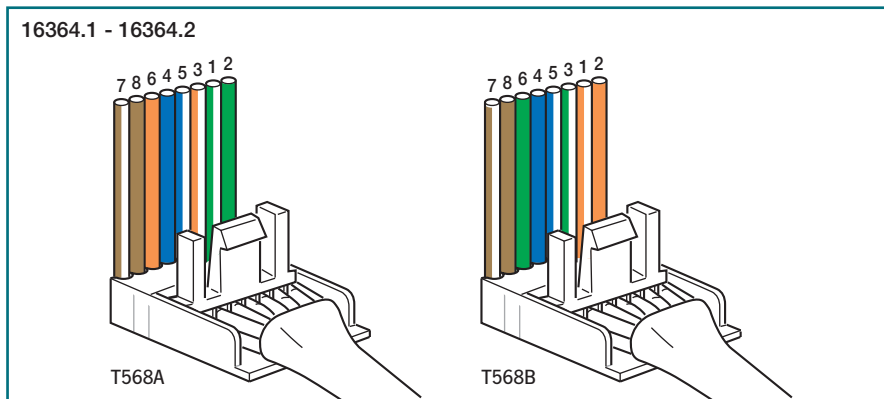
16359.3.B



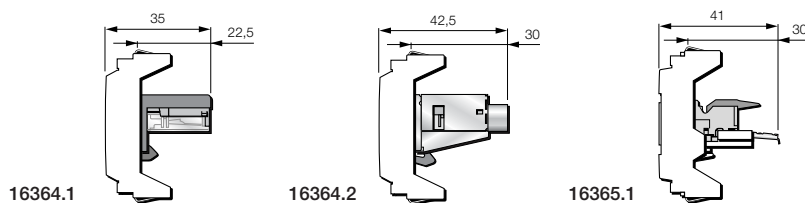
# Socket outlets for signal reception

## Technical characteristics

### Colour coded wiring



### Dimensions (mm) Side views show the overall dimensions and the flush depth



## Socket outlets for signal reception

### EDP socket outlets

Grey	White	
16364.1	.B	RJ45 outlet with Panduit (MINI-COM) connector, category 5e, unshielded, T568A/B universal wiring, 8 contacts, insulation-piercing terminals

16364.1



16364.1.B



16364.2	.B	RJ45 outlet with Panduit (MINI-COM) connector, category 5e, shielded, T568A/B universal wiring, 8 contacts, insulation-piercing terminals
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16364.2



16364.2.B



16365.1	.B	RJ45 outlet with R&M Freenet system connector, category 5e, unshielded, T568A/B universal wiring, 8 contacts, insulation-piercing terminals
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16365.1



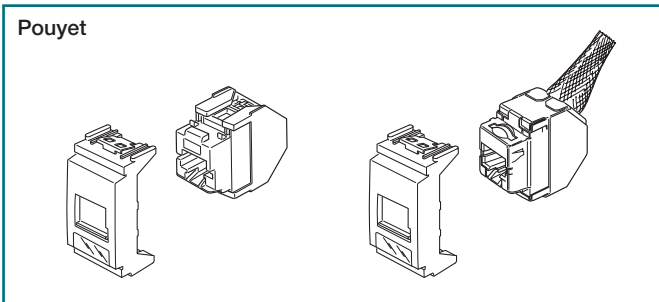
16365.1.B



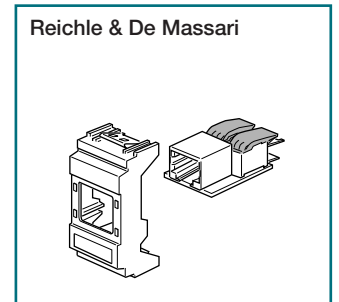
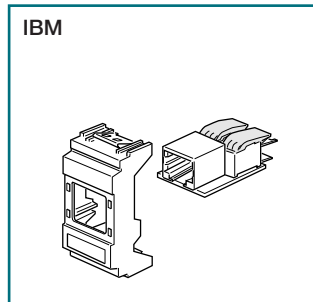
# Socket outlets for signal reception

## Technical characteristics

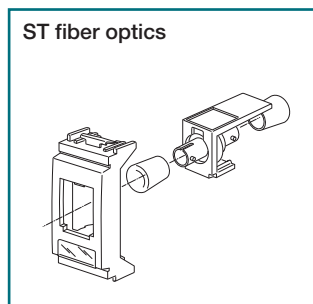
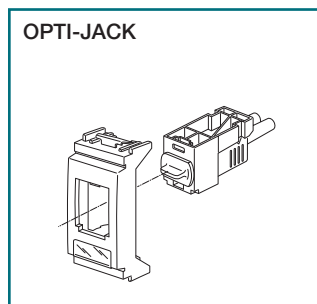
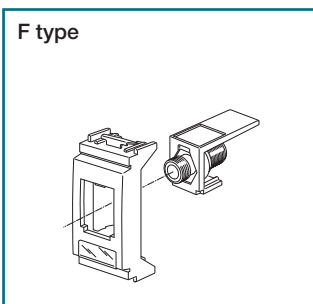
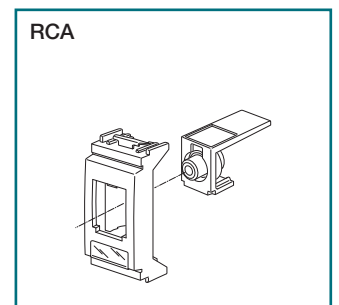
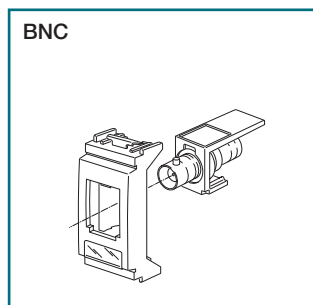
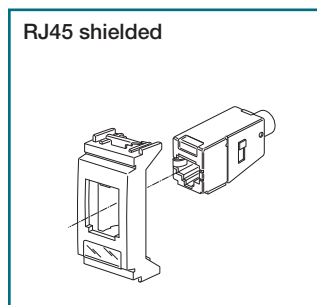
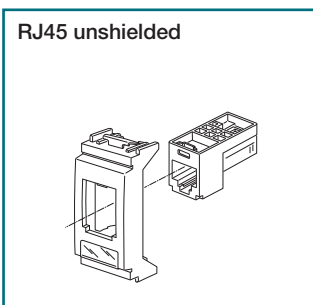
16357.C - Pouyet



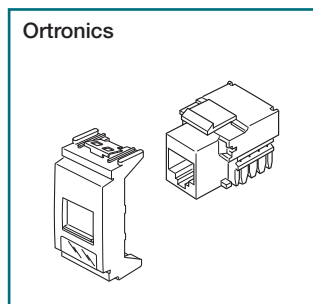
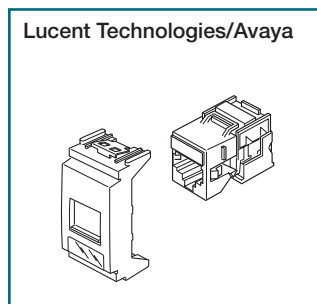
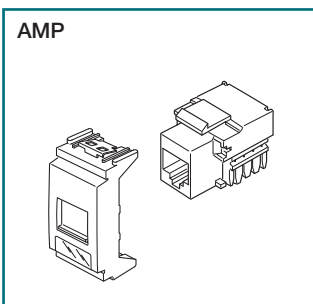
16365.C - IBM, Reichle & De Massari



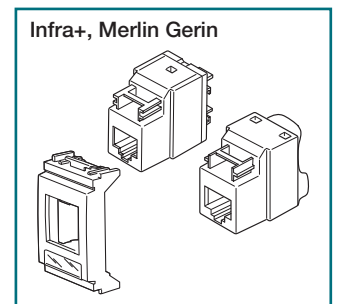
16364.C - Panduit



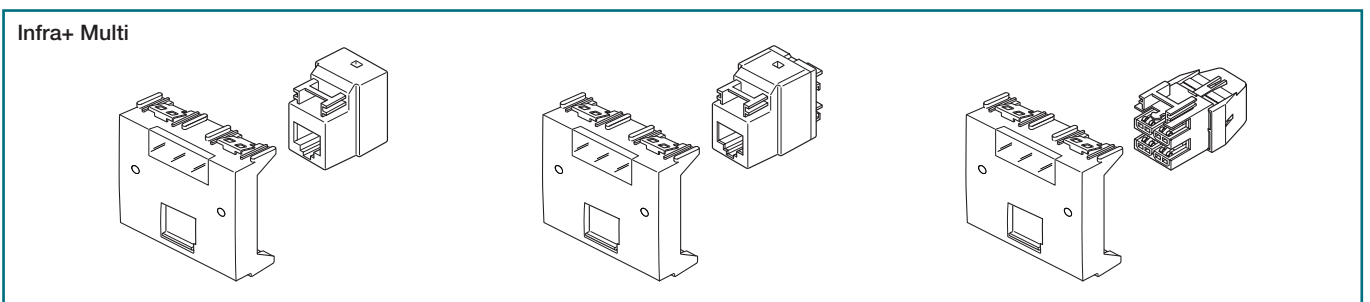
16358.C - AMP, Lucent Technologies/Avaya



16367.C



16366.C - Infra+ RJ MULTI



## Socket outlets for signal reception

### Adaptors for EDP connectors

Grey	White	
<b>16357.C</b>	<b>.B</b>	Adaptor for RJ45 Pouyet connectors, category 5 and category 6
<b>16358.C</b>	<b>.B</b>	Adaptor for RJ45 connectors, category 5: <ul style="list-style-type: none"> <li>• AMP/Tyco (110 Jack series, Toolless Jack, Jack MTRJ)</li> <li>• Lucent Technologies/Avaya (MPS100BH, MPS100BH1, MPS100E, MPS100E1, MGS200BH and MGS200BH1)</li> </ul>

16357.C



16358.C



16364.C



16357.C.B



16358.C.B



16364.C.B



<b>16364.C</b>	<b>.B</b>	Adaptor for MINI-COM Panduit modules
<b>16365.C</b>	<b>.B</b>	Adaptor for RJ45 connectors, suitable for the following systems: <ul style="list-style-type: none"> <li>• R&amp;M Freenet system</li> <li>• IBM Advanced Connectivity System Type C</li> </ul>

16364.C



16365.C



16364.C.B



16365.C.B



<b>16366.C</b>	<b>.B</b>	Adaptor for RJ MULTI Infra+ connectors - 2 modules
<b>16367.C</b>	<b>.B</b>	Adaptor for RJ45 category 5e and category 6 Infra+ Slim, Merlin Gerin connectors

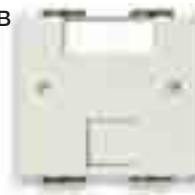
16366.C



16367.C



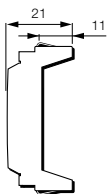
16366.C.B



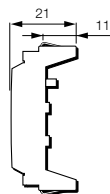
16367.C.B



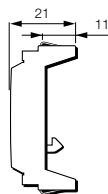
### Dimensions (mm) Side views show the overall dimensions and the flush depth



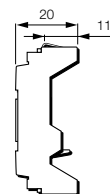
16357.C



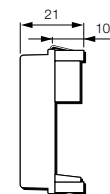
16358.C



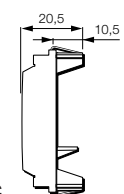
16364.C



16365.C



16366.C



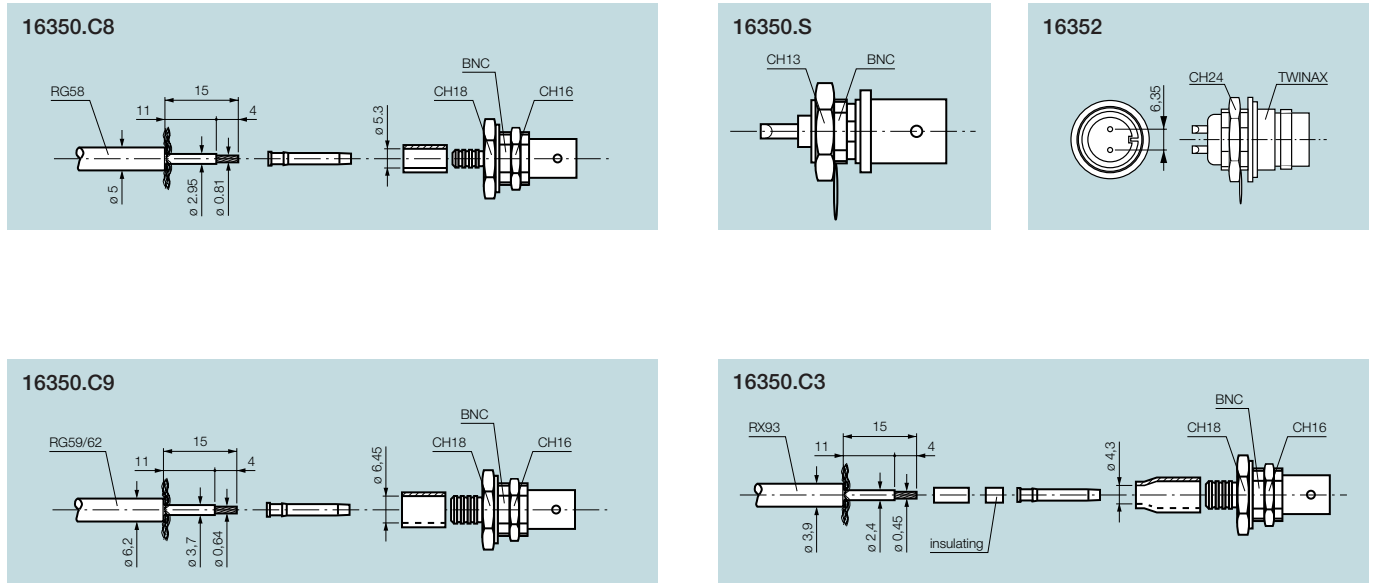
16367.C



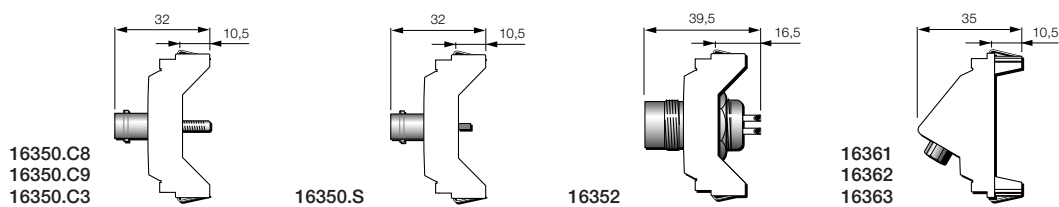
## Socket outlets for signal reception

### Technical characteristics

#### Socket connectors



#### Dimensions (mm) Side views show the overall dimensions and the flush depth



## Socket outlets for signal reception

### EDP socket outlets (continued)

Grey	White	
<b>16350.C8</b>	<b>.B</b>	Bayonet type coaxial socket connector, jack BNC, for cable RG58 crimping
<b>16350.C9</b>	<b>.B</b>	Bayonet type coaxial socket connector, jack BNC, for cable RG59/62 crimping
<b>16350.C3</b>	<b>.B</b>	Bayonet type coaxial socket connector, jack BNC, for cable RX93 crimping
<b>16350.S</b>	<b>.B</b>	Bayonet type coaxial socket connector, jack BNC, for cables RG58, RG59/62, RX93 soldering

16350.C8  
16350.C9  
16350.C3



16350.S



16350.C8.B  
16350.C9.B  
16350.C3.B



16350.S.B



<b>16352</b>	<b>.B</b>	Screw type biaxial socket connector, jack TWINAX, for biaxial cables soldering - 2 modules
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16352



16352.B



<b>16361</b>	<b>.B</b>	9 pin D-SUB socket connector, soldering - 2 modules
<b>16362</b>	<b>.B</b>	15 pin D-SUB socket connector, soldering - 2 modules

16361



16362



16361.B



16362.B



<b>16363</b>	<b>.B</b>	25 pin D-SUB socket connector, soldering - 3 modules
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16363



16363.B



## Socket outlets for signal reception

### Technical characteristics

#### Socket connectors for Thinnet Tap system

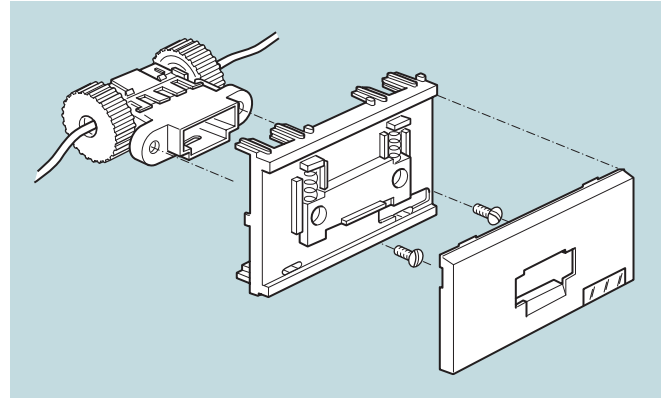
The Thinnet Tap system allows the connection and disconnection of computers installed in a local network without interrupting data flow.

The Thinnet Tap socket connector is provided with insulation-piercing terminals for cable RG58 50  $\Omega$  and is directly connected to the coaxial cable without the use of special tools.

The end connector of the local network must be fitted with the special 50  $\Omega$  line-end terminal resistor 16356.

#### Note

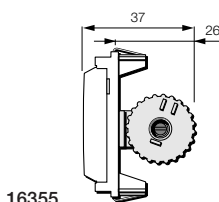
The Thinnet Tap socket connector is designed for one application cycle only. Once removed from the cable, it cannot be reused.



### Assembly and wiring

<p><b>1</b></p> <p>Clean-cut the cable of the local network. Strip 12,7 mm of the outer sheath from both cable ends. Striplength markings are provided on each nut.</p>	<p><b>2</b></p> <p>Insert the stripped end of the cable in the fixing nut, with its threaded end outwards.</p>	<p><b>3</b></p> <p>Flare away the braid from the dielectric, then insert the metal eyelet with its flanged end outwards. If the cable is provided with an aluminium foil, remove it, making sure not to damage the dielectric.</p>	<p><b>4</b></p> <p>Holding the metal eyelet, bring the nut closer, then press the eyelet into the nut cavity. Make sure the braid is placed between the nut and the eyelet.</p>
<p><b>5</b></p> <p>Insert each cable end into the respective side of the connector body, and push through to guarantee a reliable contact. The eyelet flange must rest on the earth contact of the connector body. No braid strand shall enter the connector hole.</p>	<p><b>6</b></p> <p>Partially screw the nuts on. Remove the plastic spacer, then tighten the nuts by hand. Do not tighten the nuts on the plastic spacer.</p>	<p><b>7</b></p> <p>Rest the front of the connector on a firm surface and push toward it the enclosure of the body: the two stops will click onto the slots provided on both sides of the connector body. Make sure the two enclosures are fully inserted one into the other; if not, repeat the operation.</p>	<p><b>8</b></p> <p>Assembled Thinnet Tap socket connector.</p>

### Dimensions (mm) Side views show the overall dimensions and the flush depth



16355

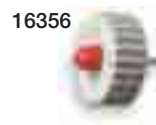
## Socket outlets for signal reception

### EDP socket outlets (continued)

Grey	White	
16355	.B	Thinnet Tap system socket connector for cable RG58 50 $\Omega$ , insulation-piercing terminals - 3 modules



16356	50 $\Omega$ line-end terminal resistor for Thinnet Tap system
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## Coaxial TV-RD-SAT 5-2400 MHz socket outlets

### Technical characteristics

#### TV-RD-SAT socket outlets

The introduction of systems such as digital satellite TV, “pay per view” and “Theme TV” has elevated the quality requirements for sound and video signal distribution systems, and prompted the drafting of new regulations which set out the standards, characteristics and requisites for the design of such systems and the equipment to be used. The EN 50083 standards (cabled distribution systems for television, sound and interactive multimedia signals), which have been approved at the European level by CENELEC, are the most up-to-date regulations for sound and television signal distribution systems, and represent the current and future European standard.

It is within this context that VIMAR, in its efforts to supply the electrical installations market with components that are technologically advanced (thanks also to technical-commercial partnerships with European leaders in the field) as well as elegantly styled, has renewed its TV range with the introduction of coaxial connectors and wall sockets conforming to the new European standards, thereby enabling designers, installers and end users to choose components which support the new TV broadcasts, the new services and their future evolutions.

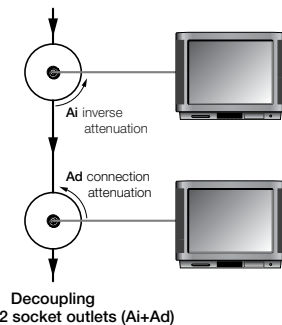
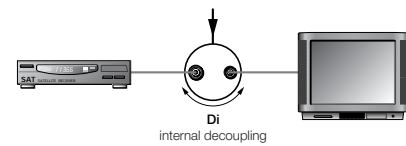
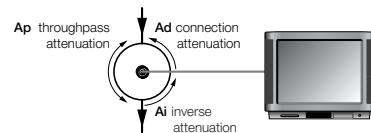
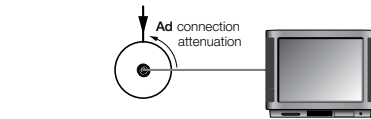
#### Regulatory requirements

In order to guarantee system characteristics conforming to the EN 50083 standard, the coaxial wall sockets and their associated portable connectors must provide for:

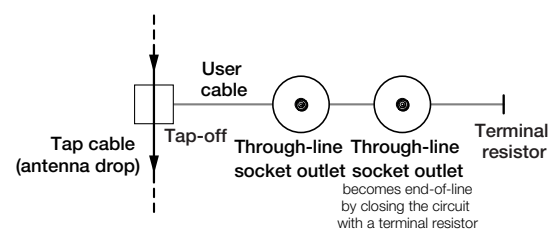
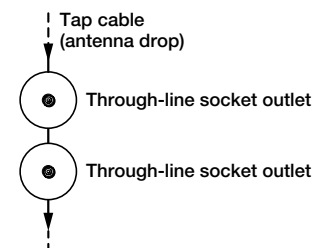
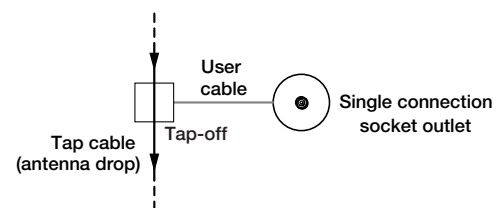
- **highly shielding rate**, to prevent any surrounding electromagnetic fields from distorting the TV signal (considering the nature of the signals available today and the high transmission frequencies, the degree of shielding is a decisive factor).
- **adequate impedance matching** to avoid undesired reflection of the signal.
- **decoupling between the various output ports**
- **decoupling between different socket outlets** connected in cascade, to attenuate any disturbances produced by the receivers connected to the socket outlets.

With regard to electromagnetic compatibility, the coaxial wall socket outlets and portable connectors must conform to the EN 50083 standard part 2, harmonised for the purposes of the EMC directive, and are therefore CE marked.

#### Attenuations and decouplings



#### Single connection, through, and end-of-line socket outlets



# Coaxial TV-RD-SAT 5-2400 MHz socket outlets

## Mechanical characteristics and shielding rate

The die-cast metal construction, together with the shape of the terminals and cord-grip, guarantee an extremely high shielding rate (class A according to EN 50083-2/A1: 1997-03).

For all products, the values of shielding rate are:

- from 30 MHz to 300 MHz: 85 dB
- from 300 MHz to 470 MHz: 80 dB
- from 470 MHz to 1000 MHz: 75 dB
- from 1000 MHz to 3000 MHz: 55 dB

### • Cord-grip.

- With 110° opening and lock position, allows for easy access to the terminals and quick wiring of the conductors.
- When closed, does not deform the cables, thus avoiding variations in characteristic impedance. Clamped by a single captive screw with combined Phillips and slotted head.

### Terminals.

The plastic terminals do not compress or deform the centre conductor of the coaxial cable. They guarantee a secure and lasting grip and prevent the centre conductor from slipping, minimising capacitive effects. The single connection socket outlets are green in colour, while the through-line sockets are white.

### Combined Phillips and slotted head screw.

Simultaneously clamps the incoming and outgoing conductors. When the screw is backed off, it causes the plate to lift up, thereby automatically opening the terminals.

### Symbols.

Clear and simple symbols (direction arrows), identify the input and output terminals.

### Separator plate.

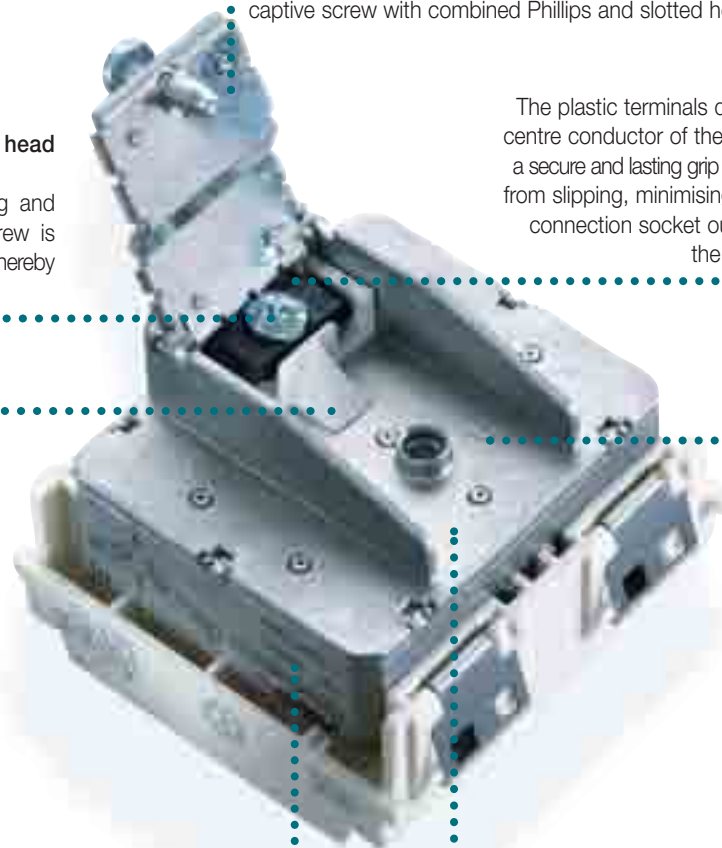
Neatly divides the routing of the coaxial cables, facilitating the wiring operations.

### Symbols stamped on the side.

Immediately identify the type of socket outlet (single connection, through-line, d.c. current pass) its connection attenuation and application frequency band.

### Coaxial cable insertion compartment.

Very wide, the cables remain visible - particularly the centre conductor - to ensure secure fixing and facilitate inspection.



Optimal routing of cables within the wall boxes



Identification plates for personalising the socket outlets



Capacitance of the terminal-cable clamp system



## Coaxial TV-RD-SAT 5-2400 MHz socket outlets

### Technical characteristics

#### Scope

- connect user equipments to systems for the distribution of analogic or digital sound and video signals, from terrestrial, satellite or cable link, in the 5-2400 MHz frequency band
- permit the connection of a single device (e.g. TV or SAT receiver)
- can be used for satellite Internet applications and, thanks to the 5-40 MHz return channel, also for interactive functions (hotel communications and cable TV)
- a choice of single connection sockets allows the passage of d.c. current and control signals, and of through-line sockets with three different attenuation ratings, ensures optimal utilisation on any type of individual or central distribution configuration (see table overleaf).

#### The range

- 1 single connection socket which allows the passage of d.c. current and control signals (24 V 500 mA max)
- 3 through-line sockets with:
  - connection attenuation 10 dB
  - connection attenuation 15 dB
  - connection attenuation 20 dB

The through-line sockets can become end-of-line sockets if “closed” with the special terminal resistor 16330. They allow d.c. current and control signals (24 V 500 mA max) to pass through the line, **but not to the user port** (IEC 169-2 male connector).

#### Some examples of the supported system topologies

- Multiple socket outlets in cascade
- Multiple parallel connected socket outlets
- Combined cascade/parallel connected
- Multi-switch for satellite signal distribution
- Multi-switch for combined terrestrial and satellite signal distribution
- Combined cascade/parallel with IF-IF conversion unit for single-cable distribution of combined terrestrial and satellite signals
- Combined cascade/parallel with modular unit for feeding terrestrial and satellite programs in the 40-862 MHz band (terrestrial)

#### Technical specifications

- frequency range: 5-2400 MHz
- output: IEC 169-2 male connector
- return channel in 5-40 MHz band

#### Conformity to Standards

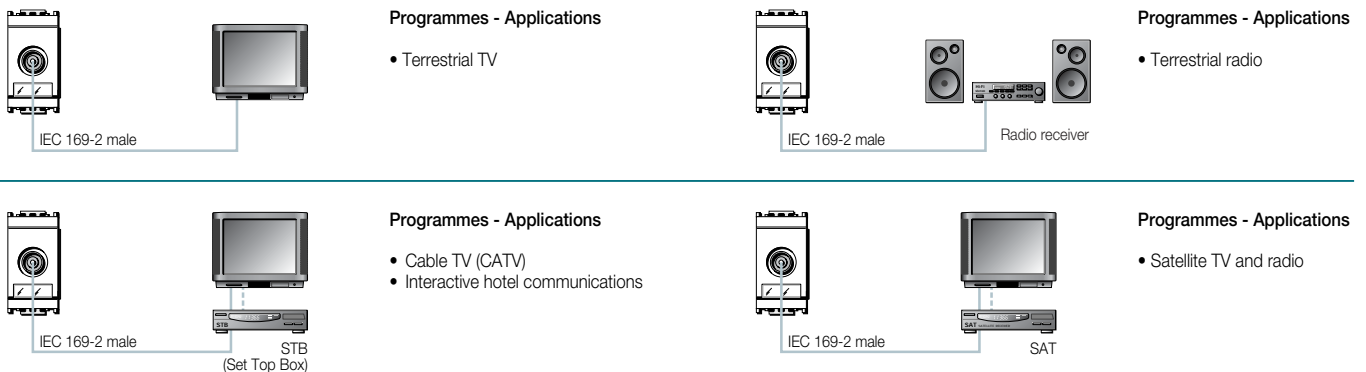
Standards EN 50083-1, EN 50083-4  
EMC Directive  
Standard EN 50083-2



### Attenuations

Type of socket outlet	Type of attenuation	Frequencies (MHz)					
		5-40	40-470	470-862	862-950	950-1750	1750-2400
Single connection 1 dB	Connection attenuation (dB)	0,1	0,2	0,3	0,3	0,5	0,7
	Throughpass attenuation (dB)	11,5	10	10	10	10	11,5
Through-line 10 dB	Connection attenuation (dB)	15	15	15	15	15	15
	Throughpass attenuation (dB)	0,8	0,8	0,8	0,9	1,1	1,4
Through-line 15 dB	Connection attenuation (dB)	20	20	20	20	20	20
	Throughpass attenuation (dB)	0,8	0,5	0,7	0,8	1	1,3

### How to connect



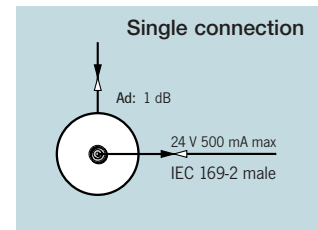
— Coaxial cable connection      - - - - SCART cable connection

# Coaxial TV-RD-SAT 5-2400 MHz socket outlets

## Coaxial TV-RD-SAT 5-2400 MHz socket outlets

Grey      White

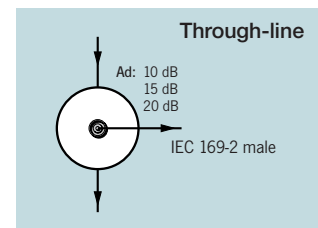
**16306.01 .B** Coaxial TV-RD-SAT 5-2400 MHz socket outlet, single connection, with IEC 169-2 male connector, connection attenuation 1 dB. Allows the passage of d.c. current and control signals (24 V 500 mA max).



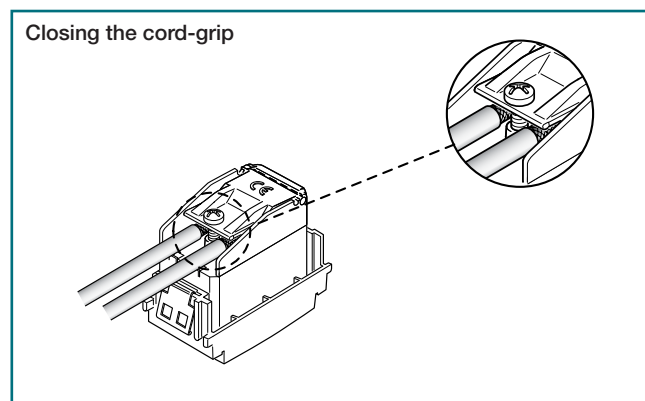
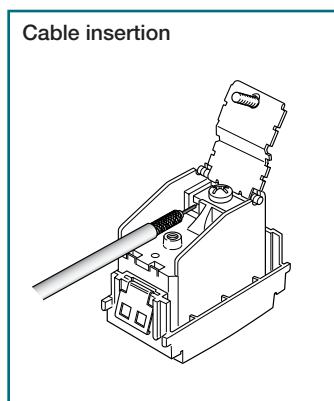
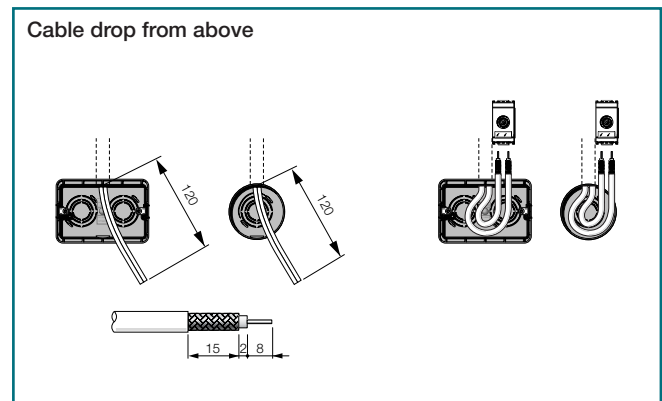
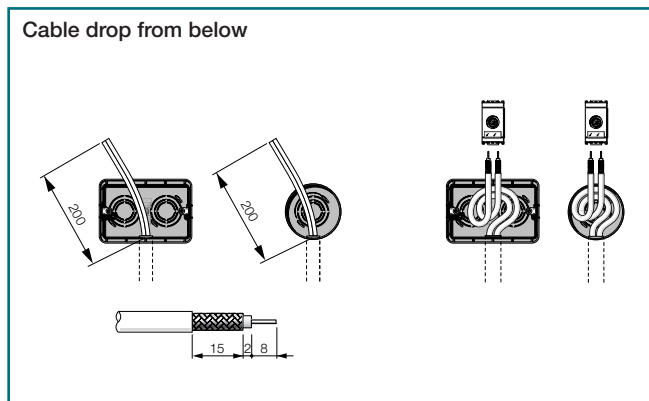
**16306.10 .B** Coaxial TV-RD-SAT 5-2400 MHz socket outlet, through-line, with IEC 169-2 male connector, connection attenuation 10 dB

**16306.15 .B** As above, connection attenuation 15 dB

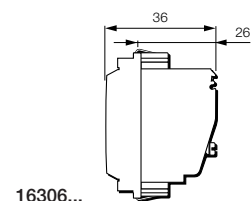
**16306.20 .B** As above, connection attenuation 20 dB



## TV-RD-SAT through-line socket outlet installation



**Dimensions (mm)**  
Side views show the overall dimensions and flush depth





## Coaxial TV-RD-SAT 5-2400 MHz socket outlets

### Technical characteristics

#### Scope

- connect user equipments to systems for the distribution of analogic or digital sound and video signals, via terrestrial, satellite or cable link, in the 5-2400 MHz frequency band
- permits the simultaneous connection of two devices (e.g. TV and SAT receiver, or TV and radio)
- can be used for satellite Internet applications and, thanks to the 5-40 MHz return channel, also for interactive functions (hotel communications and cable TV)
- the availability of single connection socket outlets allows the passage of d.c. current and control signals, and of through-line socket outlets with three different attenuation ratings and ensures optimal utilisation on any type of individual or central distribution configuration (see table overleaf).

#### The range

- 1 single connection socket outlet which allows d.c. current and control signals (24 V 500 mA max) to pass through the IEC 169-2 female connector
- 3 through-line socket outlets with:
  - connection attenuation 10 dB
  - connection attenuation 15 dB
  - connection attenuation 20 dB

The through-line socket outlets can become end-of-line socket outlets if "closed" by the special terminal resistor 16330. They do not allow d.c. current and control signals (24 V 500 mA max) to pass through the line or on the user output.

#### Technical specifications

- frequency range: 5-2400 MHz
- outputs: IEC 169-2 male and IEC 169-2 female connectors
- return channel in the 5-40 MHz band

#### Conformity to Standards

Standards EN 50083-1, EN 50083-4

EMC Directive

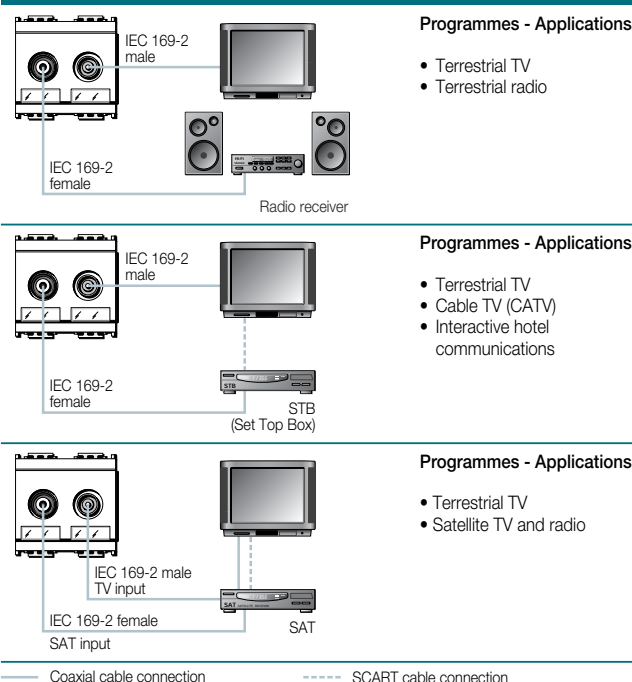
Standard EN 50083-2



#### Some examples of the supported system topologies

- Multiple socket outlets in cascade
- Multiple parallel connected socket outlets
- Combined cascade/parallel
- Multi-switch for satellite signal distribution
- Multi-switch for combined terrestrial and satellite signal distribution
- Combined cascade/parallel with IF-IF conversion unit for single-cable distribution of combined terrestrial and satellite signals
- Combined cascade/parallel with modular unit for feeding terrestrial and satellite programs in the 40-862 MHz band (terrestrial)

#### 2-output TV-RD-SAT socket outlets: how to connect



#### Attenuations

Type of socket	Type of attenuation	Connector	Frequencies (MHz)					
			5-40	40-470	470-862	862-950	950-1750	1750-2400
Single connection 5 dB	Connection attenuation (dB)	IEC 169-2 male	8	5	5	5,5	6	7
		IEC 169-2 female	5	5	5	5,5	5,5	6
	Minimum internal decoupling (dB)*		20	20	20	20	20	20
Through-line 10 dB	Connection attenuation (dB)	IEC 169-2 male	11,5	10	10	10	10	11,5
		IEC 169-2 female						
	Throughpass attenuation (dB)		3,8	3	3	3	3,4	3,4
Through-line 15 dB	Connection attenuation (dB)	IEC 169-2 male	14,5	15	15	15	15	15,5
		IEC 169-2 female						
	Throughpass attenuation (dB)		2,2	2,2	2,2	2,2	2,4	3,2
Through-line 20 dB	Connection attenuation (dB)	IEC 169-2 male	20	20	20	20	20	21
		IEC 169-2 female						
	Throughpass attenuation (dB)		2,2	1,3	1,5	1,6	2,5	3,2
	Minimum internal decoupling (dB)*		20	26	24	22	20	23

\* Internal decoupling: isolation between IEC 169-2 male and IEC 169-2 female output.

# Coaxial TV-RD-SAT 5-2400 MHz socket outlets

## Coaxial TV-RD-SAT 5-2400 MHz socket outlets

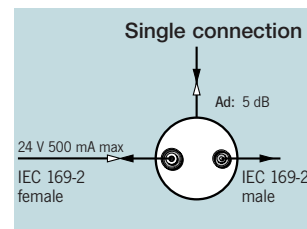
Grey      White

**16310.05 .B** Coaxial TV-RD-SAT 5-2400 MHz socket outlet, single connection, 2 outputs with IEC 169-2 male and female connectors, connection attenuation 5 dB - 2 modules.  
Allows the passage of d.c. current and control signals (24 V 500 mA max) through the female connector.

16310.05



16310.05.B



**16310.10 .B** Coaxial TV-RD-SAT 5-2400 MHz socket outlet, through-line, 2 outputs with IEC 169-2 male and female connectors, connection attenuation 10 dB - 2 modules

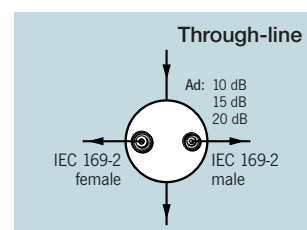
**16310.15 .B** As above, connection attenuation 15 dB

**16310.20 .B** As above, connection attenuation 20 dB

16310.10  
16310.15  
16310.20

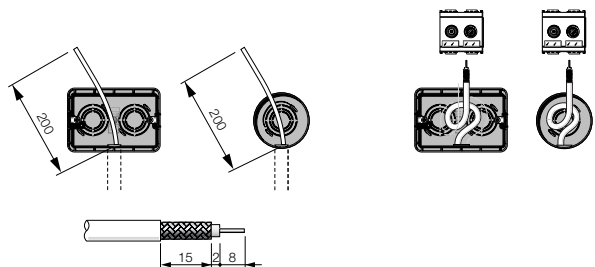


16310.10.B  
16310.15.B  
16310.20.B

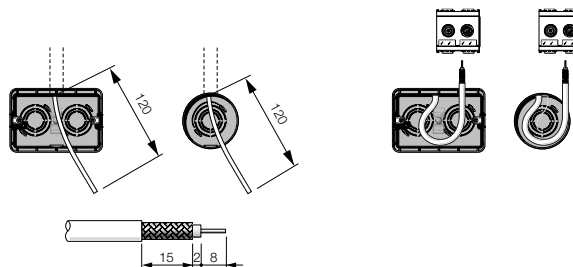


## TV-RD-SAT single connection socket outlet installation

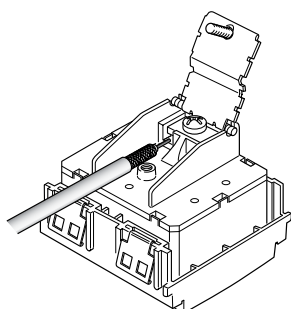
### Cable drop from below



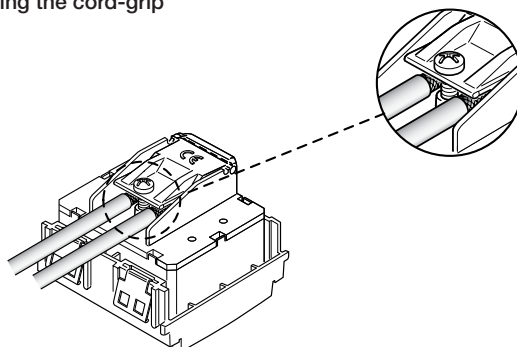
### Cable drop from above



### Cable insertion

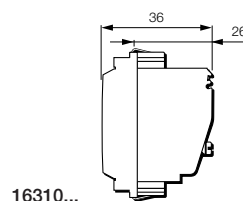


### Closing the cord-grip



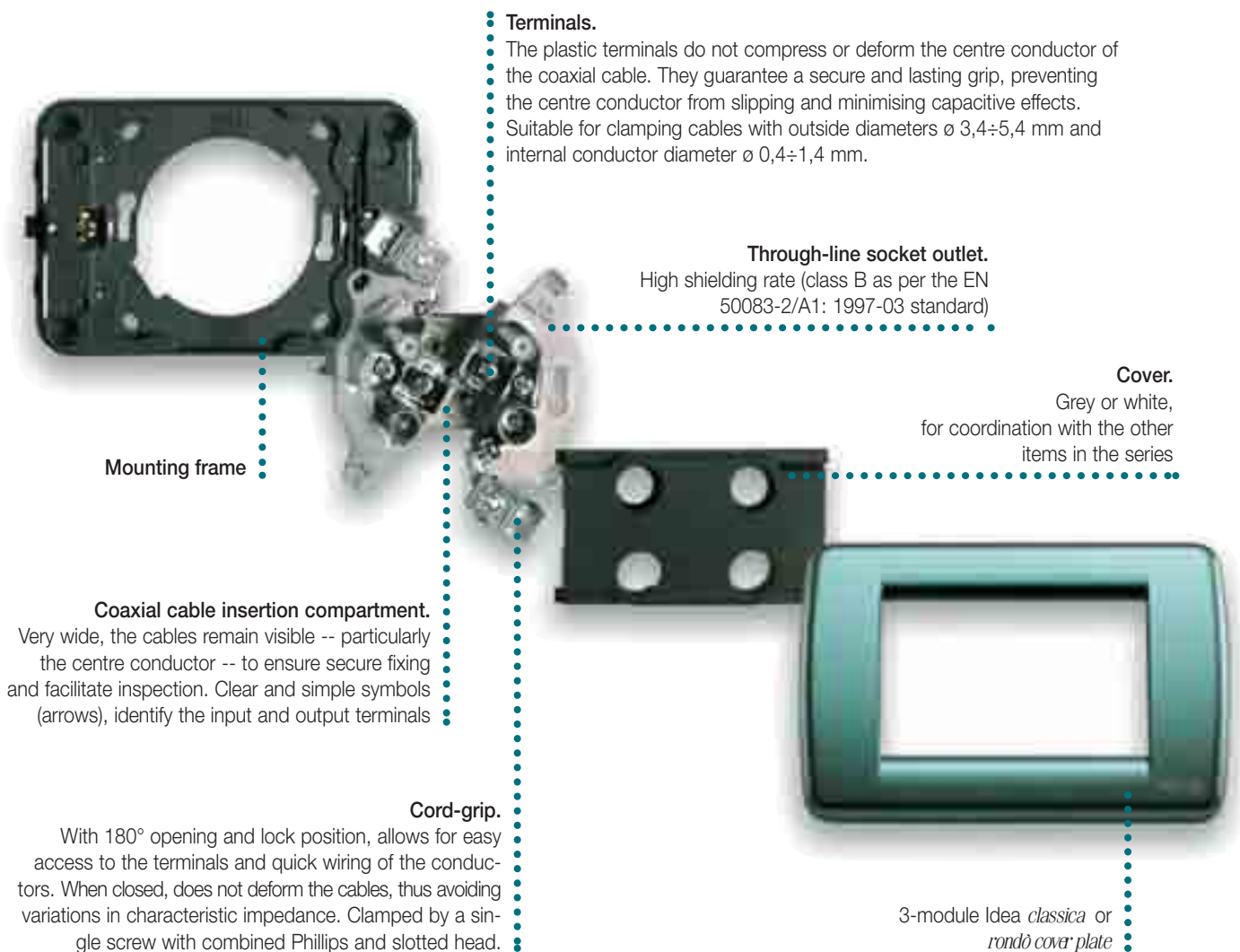
### Dimensions (mm)

Side views show the overall dimensions and flush depth

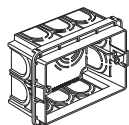


## Coaxial TV-RD-SAT 4-2150 MHz socket outlets

### Technical characteristics



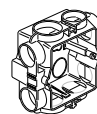
### Possibilities of installation



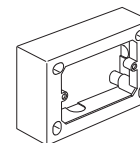
3-module flush mounting box.  
With screws (included)



ø 60 mm round flush mounting box.  
With screws (included)



Square flush mounting box  
60 mm fixing centre.  
With screws (not included)



3-module surface mounting box  
Idea series.  
With screws (included)

# Coaxial TV-RD-SAT 4-2150 MHz socket outlets

Installing through-line socket outlets\*  
16329.V15 - 17059.V15

**1**

Pull the specified cable lengths out of the boxes and strip them.

**2**

Open the cable-grips.

**3**

Back off the terminal screws and insert the inner conductor of the cables\*\*

**4**

Fully lock down the terminal screw

**5**

If it is a end-of-line socket, close the circuit with terminal resistor 75  $\Omega$  16330

**\*\* WARNING!**

- in cascade distributions, observe the direction arrows and the "H" and "V" labels stamped on the front of the cable clamp, which indicate the polarization of the distributed programmes.
- terrestrial signals must be combined with the satellite channels distributed on each of the two drops.

**6**

Replace the cable clamps and secure with their screws provided.

**7**

16329.V15  
classica cover plate  
rondò cover plate

17059.V15  
classica cover plate  
rondò cover plate

Complete the installation

\* The installation procedure is the same for single connection socket outlets equipped with the cable inputs only.

## Coaxial TV-RD-SAT1-SAT2 4-2150 MHz socket outlets

### Technical characteristics

#### Scope

- connect user equipments to systems for the distribution of analogic or digital sound and video signals, from terrestrial, satellite or cable link, in the 4-2150 MHz frequency band
- permit the simultaneous connection of four devices (e.g. TV, analogue SAT receiver, digital SAT receiver and radio)
- can be used for satellite Internet applications and, thanks to the 4-47 MHz return channel, also for interactive functions (hotel communications and cable TV)
- the single connection socket outlet is especially suitable for use in multi-switch installations for the distribution of combined terrestrial and satellite signals. In this case, the two cable entry points are connected to two separate switch outputs: this makes it possible, for example, to connect two satellite receivers (SAT1 and SAT2 outputs) with simultaneous and independent operation, making it possible (for example) to view an analogic channel while at the same time recording digital programme.

#### Conformity to Standards

Standards EN 50083-1, EN 50083-4

EMC Directive

Standard EN 50083-2



#### Technical specifications

- frequency range: 4-2150 MHz
- 2 cable inputs (H/t and V)
- for the operating principle: see block diagram
- outputs:
  - 1 IEC 169-2 male connector (TV output)
  - 1 IEC 169-2 female connector (RD output)
  - 2 IEC 169-24 female connectors type F (SAT1 and SAT2 outputs)
- return channel 4-47 MHz
- passage of d.c. current and control signals (24 V 500 mA max) through the SAT1 output toward the H/t input and through the SAT2 output toward the V input
- complete with mounting frame and grey or white covers, to coordinate with the other items of the series

#### Installation

- with the screws provided on Idea 3-module flush mounting boxes and Idea on 3-module surface mounting boxes
- with the claws provided on  $\varnothing$  60 mm flush mounting boxes
- on square flush mounting boxes with 60 mm distance between centres

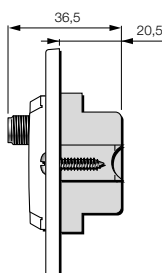
### 16329.V02 - 17059.V02

	Frequency band (MHz)	Connection attenuation between H/t input and RD output	Connection attenuation between H/t input and TV output	Connection attenuation between H/t input and SAT1 output	Connection attenuation V input and SAT2 output	Internal decoupling between the TV output and the SAT1 output
AM/RC (return channel)	4-47	-	5 dB	2,5 dB	0,2 dB	14 dB
VHF I	47-68	-	5 dB	2,2 dB	0,4 dB	20 dB
FM	87,5-108	6,5 dB	-	2,2 dB	0,4 dB	24 dB
VHF III/SC (special channels)/UHF IV/V	125-862	-	6 dB	2,2 dB	0,4 dB	24 dB
SAT IF	950-2050	-	-	2,5 dB	0,5 dB	24 dB
SAT IF	2050-2150	-	-	2,8 dB	0,6 dB	24 dB

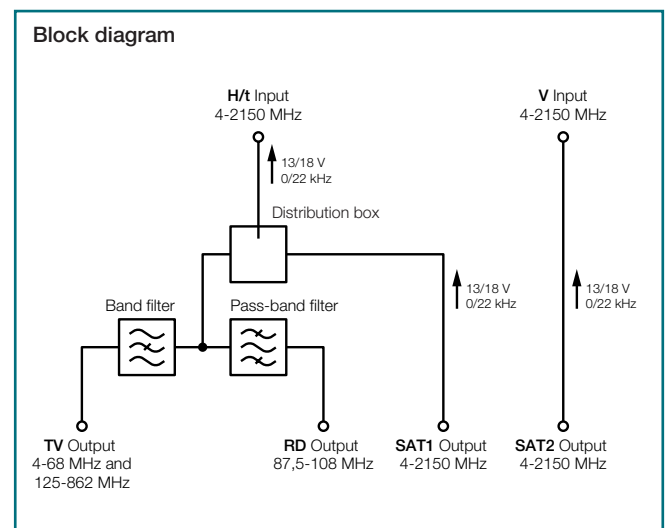
■ Outputs and their corresponding attenuations referred to the distributed frequency bands

#### Dimensions (mm)

Side views show the overall dimensions and the flush depth



16329.V02



# Coaxial TV-RD-SAT1-SAT2 4-2150 MHz socket outlets

## Coaxial TV-RD-SAT1-SAT2 4-2150 MHz socket outlets

Grey      White

**16329.V02 .B** Coaxial TV-RD-SAT1-SAT2 4-2150 MHz socket outlet, single connection, 4 cable outputs: 2 with IEC 169-2 male and female connectors and 2 F type female connectors (IEC 169-24), completed with mounting frame and cover.

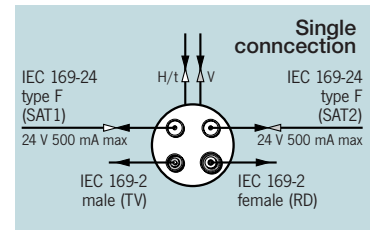
Allows the passage of d.c. current and control signals (24 V 500 mA max) through the SAT1 and SAT2 outputs.



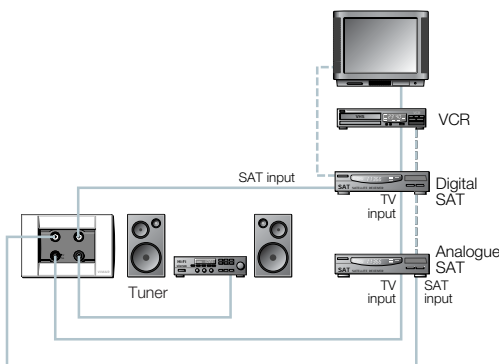
16329.V02



16329.V02.B



## How to connect

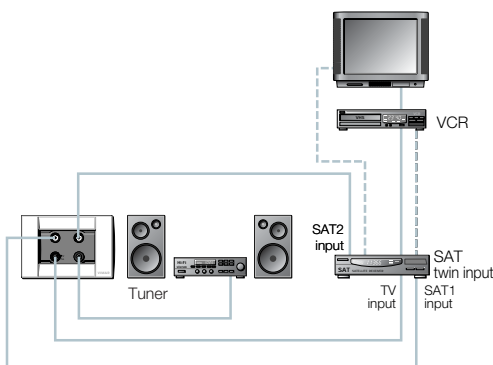


### Programmes

- Terrestrial TV and radio
- Analogic and/or digital satellite TV and radio
- CATV (cable)

### Applications

- Possibility of connecting two SAT receivers (e.g. one analogic and one digital)
- Video recording (e.g. recording of a digital SAT channel and simultaneous viewing of another SAT channel having a different polarisation and frequency band)



### Programmes

- Terrestrial TV and radio
- Analogic and/or digital satellite TV and radio

### Applications

- Possibility of connecting one SAT with double input
- Video recording (e.g. viewing a SAT programme while simultaneously recording a programme having the opposite polarisation)

— Coaxial cable connection  
 - - - SCART cable connection

## Coaxial TV-RD-SAT1-SAT2 4-2150 MHz socket outlets

### Technical characteristics

#### Scope

- connect user equipments to systems for the distribution of analogic or digital sound and video signals, from terrestrial, satellite or cable link, in the 4–2150 MHz frequency band.
- permit the simultaneous connection of four devices (e.g. TV, analogic SAT receiver, digital SAT receiver and radio)
- can be used for satellite Internet applications and, thanks to the 4-47 MHz return channel, also for interactive functions (hotel communications and cable TV)
- thanks to its two built-in switches, the through-line socket outlet is suitable for terrestrial and satellite signal distribution systems in which two-cable drops are used to distribute two satellite polarisations (horizontal and vertical) combined with terrestrial programs; the use of this socket avoids the need for costly external switches.
- the through-line socket outlets can become end-of-line socket outlets if “closed” by the special terminal resistor 16330

#### Conformity to Standards

Standards EN 50083-1, EN 50083-4  
EMC Directive  
Standard EN 50083-2



#### Technical specifications

- frequency range: 4-2150 MHz
- 2 cable inputs (H and V)
- for the operating principle: see block diagram
- outputs:
  - 1 IEC 169-2 male connector
  - 1 IEC 169-2 female connector
  - 2 IEC 169-24 female connectors type F
- return channel 4-47 MHz
- the 2 integrated switches make it possible to feed to each SAT output the two polarizations distributed via 13/18 V voltages from the connected receivers
- complete with mounting frame and grey or white covers, to coordinate with the other items of the series

#### Installation

- with the screws provided on Idea 3-module flush mounting boxes and Idea on 3-module surface mounting boxes
- with the claws provided on  $\varnothing$  60 mm flush mounting boxes
- on square flush mounting boxes with 60 mm distance between centres

### 16329.V15 - 17059.V15

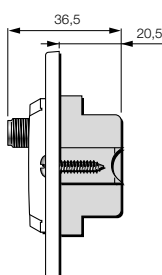
	Frequency band (MHz)	Ap	Ad between H in and RD out and between V in and TV out	Ad between H in and SAT2 out (18 V) and between V in and SAT1 out (13 V)	Ad between H in and SAT1 out (18 V) and between V in and SAT2 out (13 V)	Di between SAT1 out and SAT2 out	Di between TV out and RD out
AM/RC (return channel)	4-47	1 dB	14 dB	-	-	-	60 dB
VHF I/FM VHF III/SC (special channel)	47-470	1 dB	14 dB	-	-	-	60 dB
UHF IV/V	470-862	1,2 dB	14 dB	-	-	-	50 dB
SAT IF	950-2050	1,6 dB	-	16 dB	16 dB	26 dB	-
SAT IF	2050-2150	2,2 dB	-	16 dB	16 dB	26 dB	-

■ Outputs and their corresponding attenuations referred to the distributed frequency bands

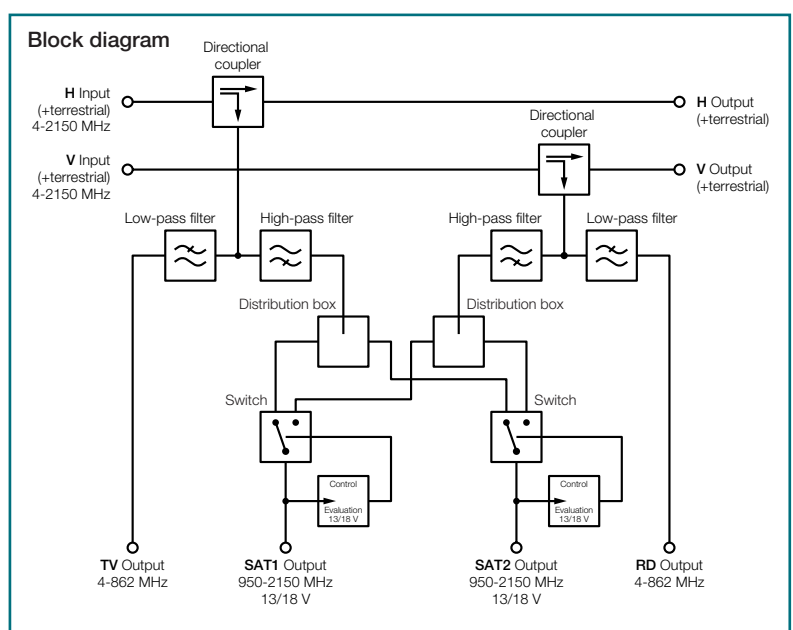
Ap: Throughpass attenuation  
Ad: Connection attenuation  
Di: Internal decoupling  
Ai: Inverse attenuation

#### Dimensions (mm)

Side views show the overall dimensions and the flush depth



16329.V15



# Coaxial TV-RD-SAT1-SAT2 4-2150 MHz socket outlets

## Coaxial 4-2150 MHz TV-RD-SAT1-SAT2 socket outlets (continued)

Grey      White

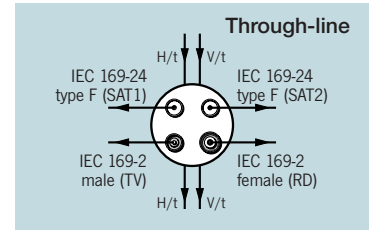
**16329.V15 .B** Coaxial TV-RD-SAT1-SAT2 socket outlet, through-line, 4 cable outputs: 2 with IEC 169-2 male and female connectors and 2 F type female connectors (IEC 169-24), completed with mounting frame and cover.  
Integrated switch for each SAT output (switching between the two polarizations through the voltages 13/18 V from the SAT receiver)



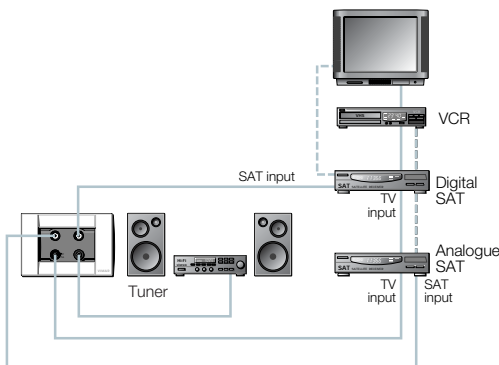
16329.V15



16329.V15.B



## How to connect

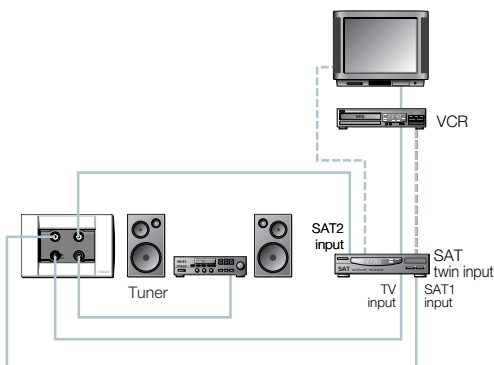


### Programmes

- Terrestrial TV and radio
- Analogic and/or digital satellite TV and radio
- CATV (cable)

### Applications

- Possibility of connecting two SAT receivers (e.g. one analogic and one digital)
- Video recording (e.g. recording of a digital SAT channel and simultaneous viewing of another SAT channel having a different polarisation and frequency band)



### Programmes

- Terrestrial TV and radio
- Analogic and/or digital satellite TV and radio

### Applications

- Possibility of connecting one SAT with double input
- Video recording (e.g. viewing a SAT programme while simultaneously recording a programme having the opposite polarisation)

— Coaxial cable connection  
- - - SCART cable connection



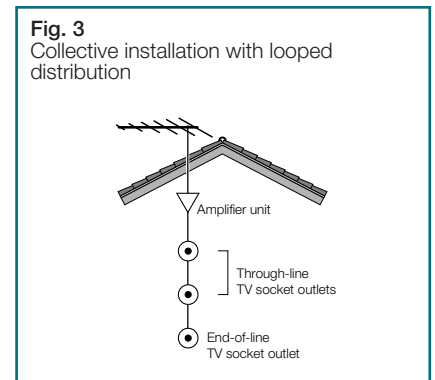
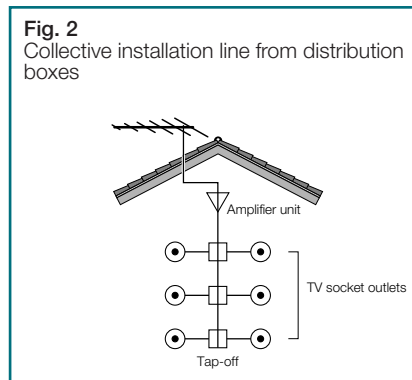
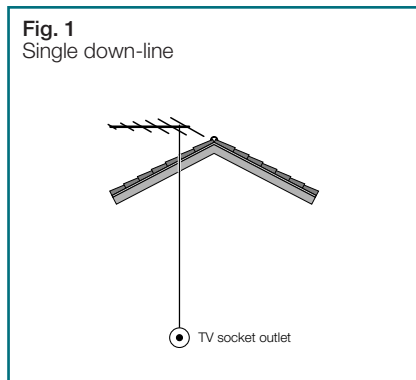
## Coaxial TV 40-862 MHz socket outlets

### Technical characteristics

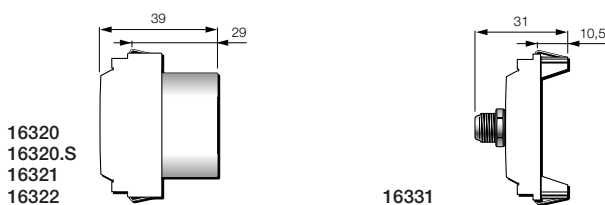
#### Coaxial 40-862 MHz TV socket outlets

##### Technical specifications

- patented cord-grip for easy and reliable connection of the coaxial cable
- captive screw terminals and toothed pressure plate, for the central conductor
- one capacitor series connected directly to the internal terminal, or through an adequate radiofrequency repeater, to protect the installation against dangerous voltages from connected receivers
- TV socket outlet without attenuation: to be used for single down-lines or for collective installation lines from distribution boxes or tap-offs (Fig. 1 and 2)
- through-line TV socket outlet and line-end socket outlet: resistive type with connection attenuation 20 dB for installations with several socket outlets connected in cascade (looped distribution - Fig. 3)



#### Dimensions (mm) Side views show the overall dimensions and the flush depth



## Coaxial TV 40-862 MHz socket outlets

### Coaxial TV 40-862 MHz socket outlets

Grey	White	
*16320	.B	Coaxial TV 40-862 MHz socket outlet, single connection, with IEC 169-2 female connector
*16320.S	.B	Coaxial TV 40-862 MHz socket outlet, single connection, with IEC 169-2 female connector and two cord-grips
*16321	.B	Coaxial TV 40-862 MHz socket outlet, through-line, with IEC 169-2 female connector, throughpass attenuation 3 dB, connection attenuation 20 dB
*16322	.B	Coaxial TV 40-862 MHz socket outlet, line-end, with IEC 169-2 female connector, connection attenuation 20 dB

16320  
16320.S  
16321  
16322



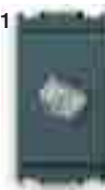
16320.B  
16320.S.B  
16321.B  
16322.B



### Coaxial F type socket outlets

Grey	White	
16331	.B	Coaxial socket outlet with F type female connector (IEC 169-24). For frequencies up to 2400 MHz. In/out connection with F type male connector 01654.

16331



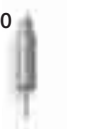
16331.B



### Terminal resistors

16330	Z 75 $\Omega$ terminal resistor for TV-RD-SAT socket outlets line-end, for frequencies up to 2400 MHz
*08175	Z 75 $\Omega$ terminal resistor, for TV socket outlets line-end

16330



08175



\* Only for countries not members of the EU

## Acoustic and optical signalling equipments

### Technical characteristics

#### Bells and buzzers

12 V and 24 V bells and buzzers are to be supplied through safety isolating transformer

#### Conformity to Standards

LV Directive for 16402, 16403, 16407 and 16408

#### Technical specifications

- type D equipments: the sound emission has the same lasting time of the control operation
- intermittent functioning 15/60: the sound emission can last up to max 15 s, followed by period at rest of 60 s

### Three-tone electronic chime

#### Scope

Particularly suitable for residential, commercial and similar applications where a differentiation is necessary between external and internal calls (i.e. building door, entrance door and call from bathroom cord-operated push button).

For three independent call signalling:

- three-tone sequence: one single cycle at a time is performed (even keeping the push button pressed)
- two-tone sequence: up to 8 cycles are performed keeping the push button pressed
- constant-tonality buzz: one cycle lasting up to 20 s is performed keeping the push button pressed

#### Conformity to Standards

EMC Directive

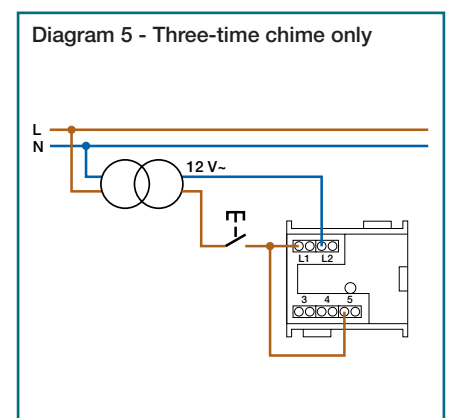
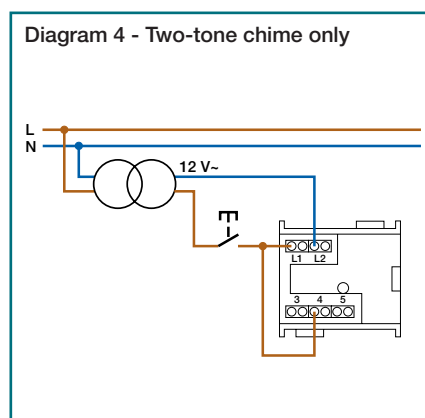
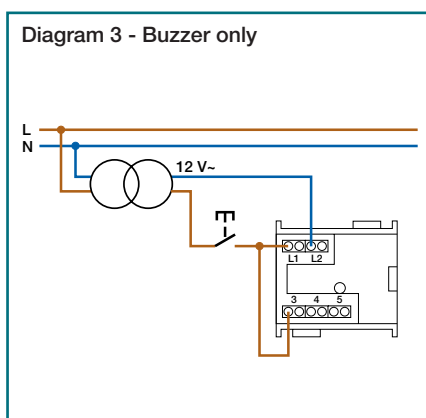
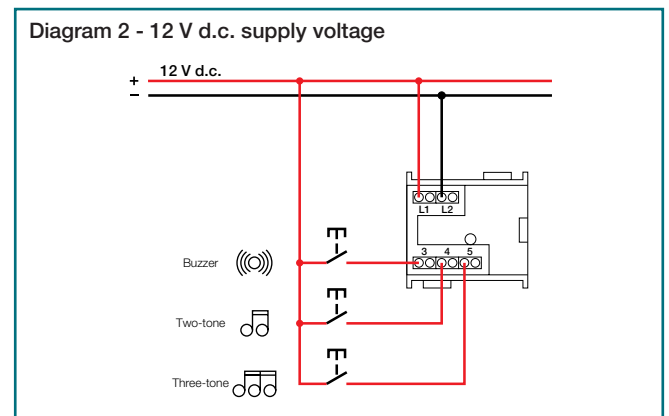
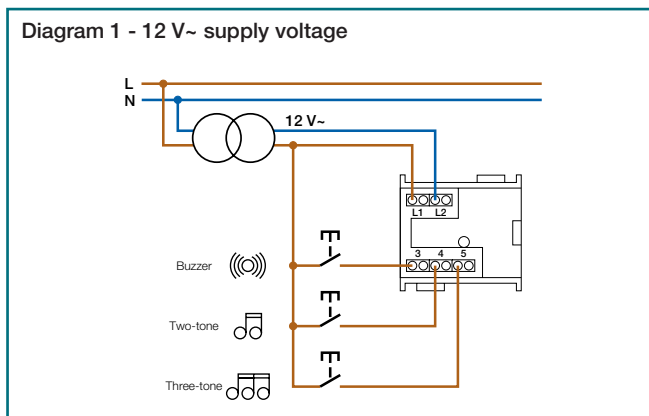
Standards EN 50082-1, EN 55022, EN 61000-3-2, EN 61000-3-3

#### Technical specifications

- to be supplied through safety isolating transformer
- supply voltage:
  - 12 V~ ±10% 50-60 Hz
  - 12 V d.c. ±10%
- absorption:
  - 9 VA max during operation calls
  - about 1 VA at rest
- volume settable acting on the trimmer which is on the back of the equipment. Max volume without distortion: 75 dB at 3 m distance for any type of operation
- operations through NO push buttons to be connected as indicated either in diagram 1 or 2

If the electronic chime is used instead of a 2-wire bell, it is possible to realize the connections as indicated in diagrams 3, 4 and 5. If the three-tone or the two-tone function is used, the cycle is completed only keeping the push button pressed till the end of the cycle.

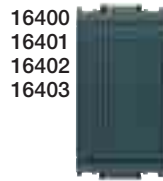
### Three-tone chime wiring diagram



# Acoustic and optical signalling equipments

## Electromechanical bells

Grey	White	
16400	.B	Bell 12 V~ (SELV) 50 Hz 8 VA
16401	.B	Bell 24 V~ (SELV) 50 Hz 8 VA
16402	.B	Bell 110 V~ 50-60 Hz 8 VA
16403	.B	Bell 230 V~ 50 Hz 8 VA



16400.B  
16401.B  
16402.B  
16403.B



## Electronic bells

Grey	White	
16420	.B	3 sound sequence electronic chime (three-tone, two-tone, buzzer), adjustable volume, supply voltage 12 V~ 50-60 Hz or 12 V d.c. (SELV) - 2 modules

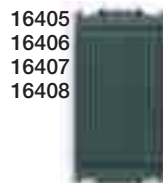


16420.B



## Buzzers

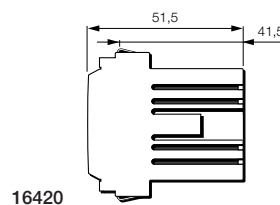
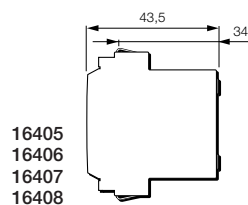
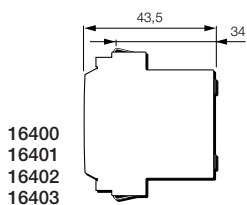
Grey	White	
16405	.B	Buzzer 12 V~ (SELV) 50-60 Hz 8 VA
16406	.B	Buzzer 24 V~ (SELV) 50-60 Hz 8 VA
16407	.B	Buzzer 110 V~ 50-60 Hz 8 VA
16408	.B	Buzzer 230 V~ 50-60 Hz 8 VA



16405.B  
16406.B  
16407.B  
16408.B



## Dimensions (mm) Side views show the overall dimensions and the flush depth



## Acoustic and optical signalling equipments

### Technical characteristics

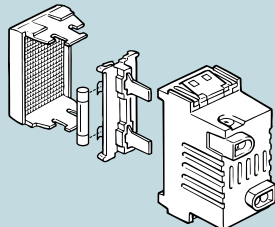
#### Luminous indicator units

Microtube lamps

#### Conformity to Standards

LV Directive

##### Microtube lamp fitting/replacement



A 1.5  $\mu$ F 400 V~ capacitor should be connected in parallel to neon or fluorescent microtube lamps to avoid self-ignition in special circuits

Colour of emitted light	Range and technical specifications of microtube lamps						Diffuser colour
	Article	Type	Supply voltage	W	Dimensions	Colour	
white	07054	incandescent	12 V	3 W	7x29 mm	white	white
white	07055	incandescent	24 V	3 W	7x29 mm	white	white
orange	07054	incandescent	12 V	3 W	7x29 mm	white	orange
orange	07055	incandescent	24 V	3 W	7x29 mm	white	orange
red	07053	neon	110 V~	0,5 W	6,3x28 mm	red	red
red	07052	neon	250 V~	0,5 W	6,3x28 mm	red	red
green	07053.V	fluorescent	110 V~	0,5 W	6,3x28 mm	green	green
green	07052.V	fluorescent	250 V~	0,5 W	6,3x28 mm	green	green
light blue	07053.AZ	fluorescent	110 V~	0,5 W	6,3x28 mm	light blue	white
light blue	07052.AZ	fluorescent	250 V~	0,5 W	6,3x28 mm	light blue	white

**Note:** Colour of emitted light= colour of the microtube lamp + diffuser colour

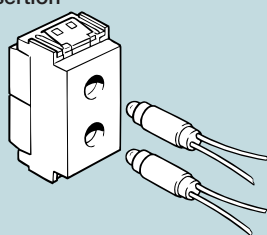
#### Double luminous indicator units

Signalling units

#### Conformity to Standards

LV Directive

##### Signalling unit insertion



A 1.5  $\mu$ F 400 V~ capacitor should be connected in parallel to neon or fluorescent signalling units to avoid self-ignition in special circuits

Colour of emitted light	Range and technical specifications of signalling units					Diffuser colour
	Article	Type	Supply voltage	W max	Colour	
white	10490	incandescent	12 V	0,5 W max	white	white
white	10491	incandescent	24 V	0,5 W max	white	white
orange	10490	incandescent	12 V	0,5 W max	white	orange
orange	10491	incandescent	24 V	0,5 W max	white	orange
red	10492	neon	110 V~	0,5 W max	red	red
red	10493	neon	250 V~	0,5 W max	red	red
green	10492.V	fluorescent	110 V~	0,5 W max	green	green
green	10493.V	fluorescent	250 V~	0,5 W max	green	green
light blue	10492.AZ	fluorescent	110 V~	0,5 W max	light blue	white
light blue	10493.AZ	fluorescent	250 V~	0,5 W max	light blue	white

**Note:** Colour of emitted light = colour of the signalling unit + diffuser colour

# Acoustic and optical signalling equipments

## Luminous indicator units

Grey	White	
16431	.B	Indicator unit for $\varnothing$ 6,3x28 mm or $\varnothing$ 7x29 mm microtube lamp , white diffuser. Lamp is not provided
16431.V	.B	As above, green diffuser
16431.R	.B	As above, red diffuser
16431.A	.B	As above, orange diffuser



## Double indicator units

Grey	White	
16432.AB	.B	Double indicator unit for 2 signalling units, 1 orange + 1 white diffuser. Signalling unit is not provided
16432.AR	.B	As above, 1 orange + 1 red diffuser
16432.AV	.B	As above, 1 orange + 1 green diffuser

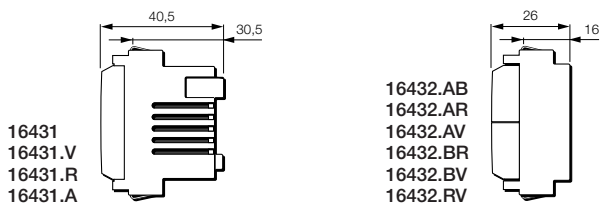


16432.BR	.B	As above, 1 white + 1 red diffuser
16432.BV	.B	As above, 1 white + 1 green diffuser
16432.RV	.B	As above, 1 red + 1 green diffuser



## Dimensions (mm)

Side views show the overall dimensions and the flush depth

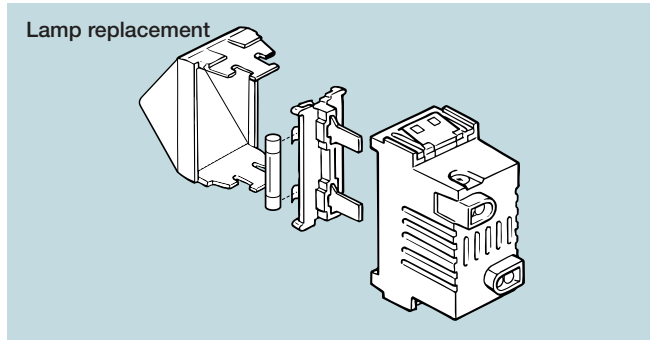


## Acoustic and optical signalling equipments

### Technical characteristics

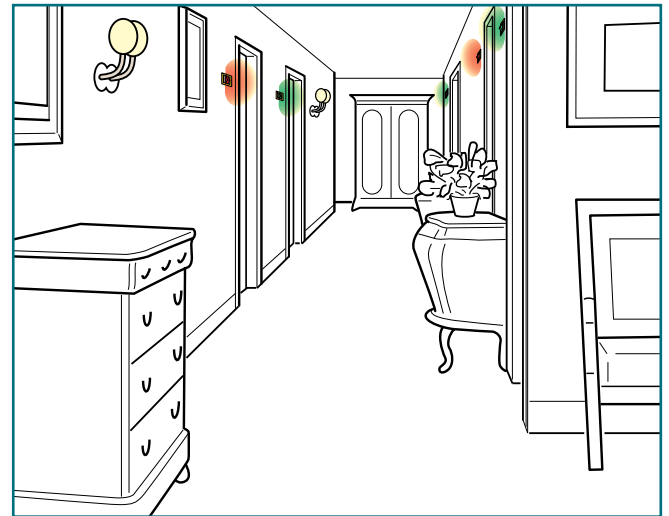
Prismatic indicator unit  
Microtube lamps

Conformity to Standards  
LV Directive



A 1,5 µF 400 V~ capacitor should be connected in parallel to neon or fluorescent microtube lamps to avoid self-ignition in special circuits

Example of use

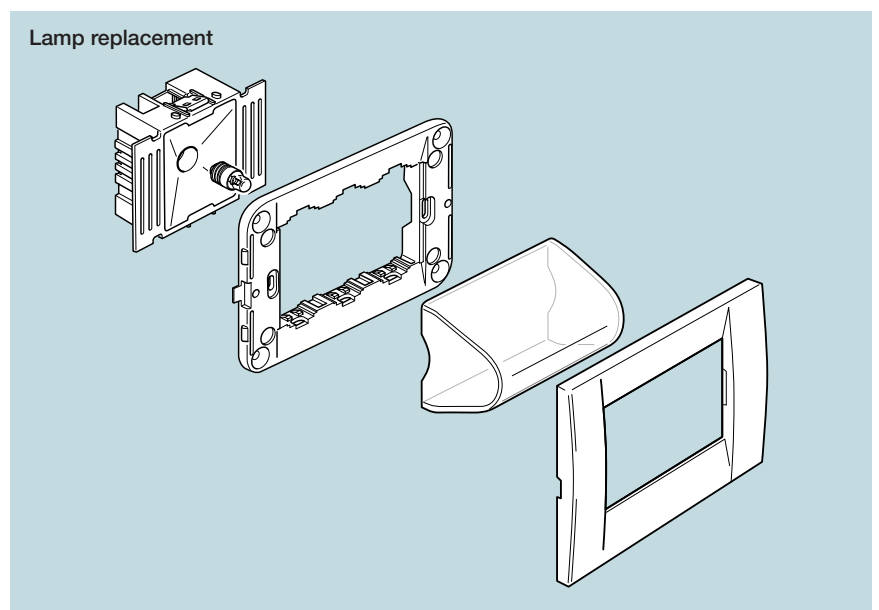


Colour of emitted light	Range and technical specifications of microtube lamps						Diffuser colour
	Article	Type	Supply voltage	W	Dimensions	Colour	
white	07054	incandescent	12 V	3 W	7x29 mm	white	white
white	07055	incandescent	24 V	3 W	7x29 mm	white	white
orange	07054	incandescent	12 V	3 W	7x29 mm	white	orange
orange	07055	incandescent	24 V	3 W	7x29 mm	white	orange
red	07053	neon	110 V~	0,5 W	6,3x28 mm	red	red
red	07052	neon	250 V~	0,5 W	6,3x28 mm	red	red
green	07053.V	fluorescent	110 V~	0,5 W	6,3x28 mm	green	green
green	07052.V	fluorescent	250 V~	0,5 W	6,3x28 mm	green	green
light blue	07053.AZ	fluorescent	110 V~	0,5 W	6,3x28 mm	light blue	white
light blue	07052.AZ	fluorescent	250 V~	0,5 W	6,3x28 mm	light blue	white

**Note:** Colour of emitted light= colour of the microtube lamp + diffuser colour

Prismatic indicator units 16446  
For 14770, 14771, 14776 and 14777 lamps

Conformity to Standards  
LV Directive



# Acoustic and optical signalling equipments

## Prismatic indicator units

Grey	White
16433	.B Prismatic indicator unit for $\varnothing$ 6,3x28 mm or $\varnothing$ 7x29 mm microtube lamp, white diffuser. Lamp is not provided
16433.V	.B As above, green diffuser

16433



16433.V



16433.B



16433.V.B



16433.R	.B As above, red diffuser
16433.A	.B As above, orange diffuser

16433.R



16433.A



16433.R.B



16433.A.B



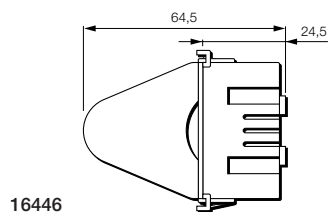
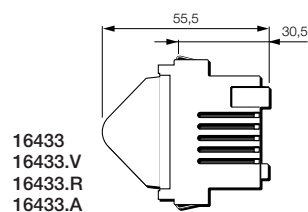
16446	Indicator unit 230 V~ 3 W max, with white prismatic diffuser, for 14770, 14771, 14776 and 14777 lamps - 3 modules. The lamp is not provided
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16446



## Dimensions (mm)

Side views show the overall dimensions and the flush depth





## Acoustic and optical signalling equipments

### Technical characteristics

#### Step marker lamps 16445

##### Scope

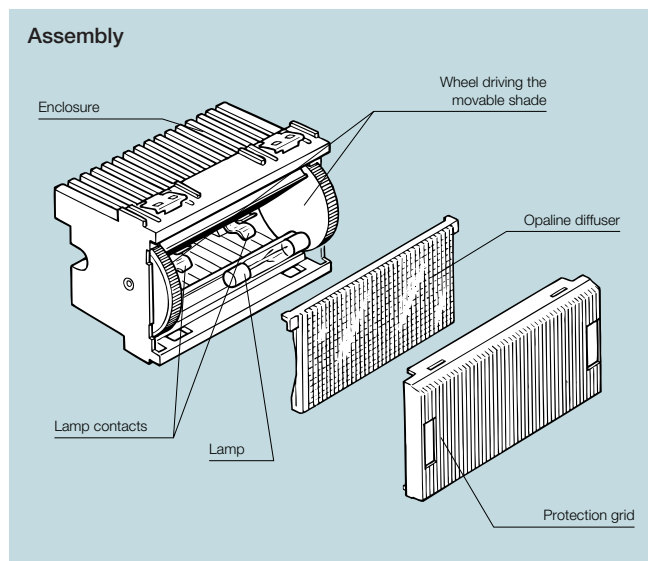
- localized lighting of floors, steps, stairs
- bed-head courtesy light

##### Technical specifications

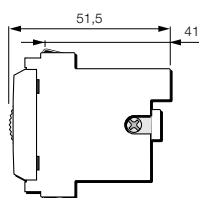
- for  $\varnothing$  7x37 mm 12-24 V 3 W microtube lamps
- internal movable shade to direct the light beam, driven by two front wheels
- uniform light beam
- high resistance to impacts
- to be supplied through safety transformer

#### Range and specifications of acceptable microtube lamps

Article	Type	Voltage	W	Dimensions	Colour
07054.L	incandescent	12 V	3 W	$\varnothing$ 7x37	white
07055.L	incandescent	24 V	3 W	$\varnothing$ 7x37	white



#### Dimensions (mm) Side views show the overall dimensions and the flush depth



16445

## Acoustic and optical signalling equipments

---

### Step marker lamps

Grey	White
16445	.B Step marker lamp with adjustable beam, for 12-24 V (SELV) 3 W ø 7x37 mm microtube lamp - 3 modules. Lamp is not provided

---

16445



16445.B



## Acoustic and optical signalling equipments

### Technical characteristics

#### Lighting fittings

##### Scope

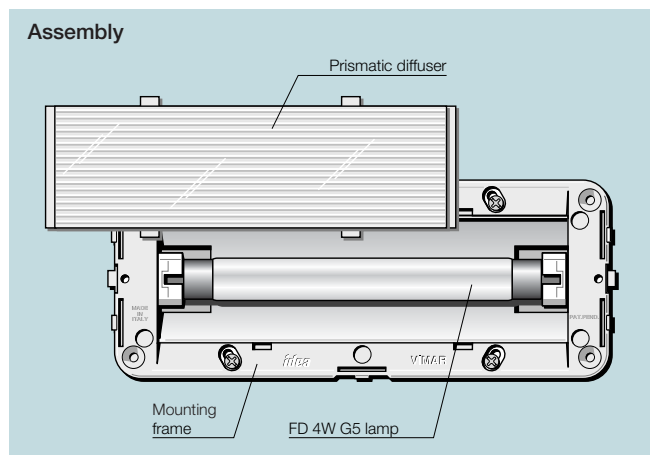
- lighting of residential and service areas, used as step marker lamp, under-shelf lighting, courtesy and night lights, etc.
- lighting of arcades, garages, cellars, containers, etc.

##### Technical specifications

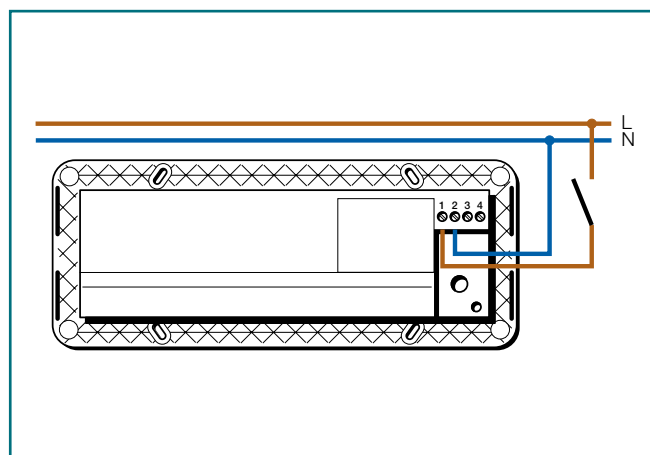
- supply voltage:
  - **16448: 230 V~** 50-60 Hz
  - **16447: 120 V~** 50-60 Hz
- lamp: FD 4W G5
- light flux  $\Phi$ : 82 lumen
- absorption: 6,9 W (16448) / 4 W (16447)
- lamp operating frequency: 30 kHz
- electronic ballast
- integral with 6 module mounting frame for 6-module Idea cover plates *classica* and *rondò*
- enclosure in self-extinguishing material
- resistance to frontal impact: 6,5 J
- installable on 6/7 module flush mounting boxes V71306, V71306.AU and V71606 or on 6-module flush mounting boxes by main manufacturers
- installable at a height of 2,2 m and 20 cm from the floor level
- not controllable by dimmer
- degree of protection IP40
- class II equipment  $\square$
- installable also on normally flammable surfaces  $\nabla$

##### Conformity to Standards

LV Directive  
 Standards EN 60598-1, EN 60598-2-2  
 EMC Directive  
 Standards EN 61547, EN 61000-3-2, EN 61000-3-3,  
 EN 55015



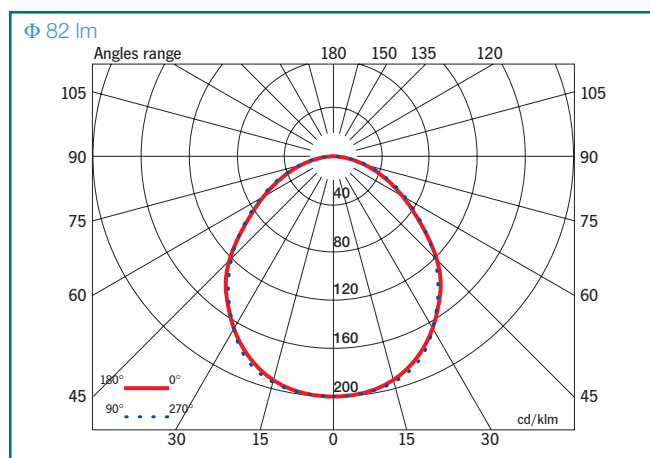
#### Wiring diagram



#### Example of use



#### Photometric diagram



## Acoustic and optical signalling equipments

### Lighting fittings

**16448** Lighting fitting **230 V~** 50-60 Hz, provided with FD 4W G5 fluorescent lamp and with 6-module mounting frame to be mounted on 6/7 module flush mounting boxes.  
To be completed with 6-module Idea *cover plates classica* or *rondo*

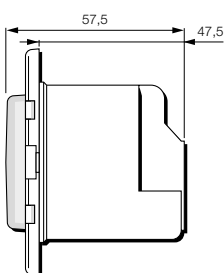


**16447** Lighting fitting **120 V~** 50-60 Hz, provided with FD 4W G5 fluorescent lamp and with 6-module mounting frame to be mounted on 6/7 module flush mounting boxes.  
To be completed with 6-module Idea *cover plates classica* or *rondo*



### Dimensions (mm)

Side views show the overall dimensions and the flush depth



16448  
16447

## Acoustic and optical signalling equipments

### Technical characteristics

#### TORCIA, electronic hand lamps

Miniaturized electronic equipment sized 2 modules, formed by a fixed charge part and a removable part:

- 2P 10 A 250 V~ charging socket (fixed part flush mounted)
- Torcia (removable part)

Two utilization possibilities:

- as auxiliary lighting in case of mains failure, when inserted into the charging socket
- as ordinary rechargeable hand lamp, when removed from the socket outlet

The removable part can be plugged for recharge, beyond the relevant charging socket, also into any Italian standards socket outlets P10, P11, P17/11 - VIMAR patent.

#### Operation

When the electronic TORCIA is inserted into the charging socket, it also operates as auxiliary lighting in case of blackout.

The recharge can be made as follows:

- recharge with auxiliary lighting function excluded: slide switch in position "0" and red LED on; if the supply to the circuit is interrupted the TORCIA will not light on
- recharge with auxiliary lighting function inserted: slide switch in position "I" and green LED on; if the supply to the circuit is interrupted the TORCIA will light on and it will automatically light off when the supply is restored.

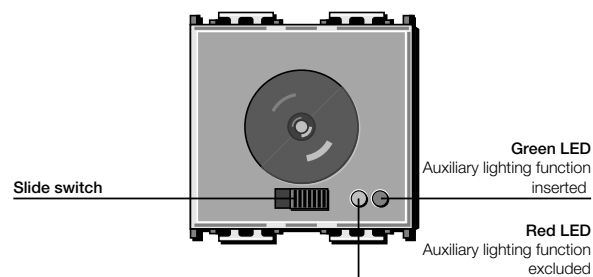
#### Technical specifications

- supply voltage:
  - 16450: 230 V~ 50-60 Hz**
  - 16449: 120 V~ 50-60 Hz**
- batteries recharge time: 36 h
- endurance after recharge: 1 h when used as a portable lamp
- possibility of fixing the equipment against unauthorized removal by means of the screw

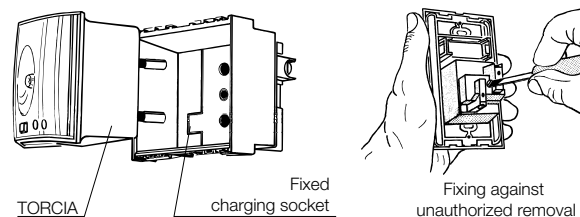
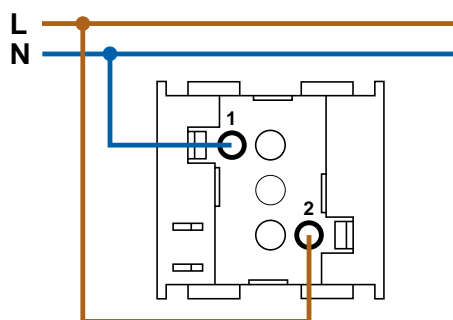
#### Conformity to Standards

LV Directive  
Standards EN 60598-1, EN 60598-2-2  
EMC Directive  
Standards EN 61547, EN 61000-3-2, EN 61000-3-3, EN 55015

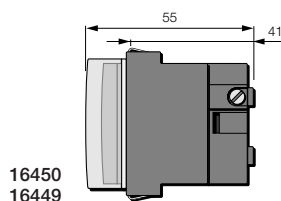
Frontal view



Wiring diagram



#### Dimensions (mm) Side views show the overall dimensions and the flush depth



## Acoustic and optical signalling equipments

### TORCIA, electronic hand lamps

Grey	White
16450	.B TORCIA, electronic hand lamp, 230 V~ 50-60 Hz, with automatic emergency device and rechargeable battery, ø 4 mm pins, 19 mm distance between centres + charging socket - 2 modules



16449	.B TORCIA, electronic hand lamp, 120 V~ 50-60 Hz, with automatic emergency device and rechargeable battery, ø 4 mm pins, 19 mm distance between centres + charging socket - 2 modules
-------	---



## Acoustic and optical signalling equipments

### Technical characteristics

#### Emergency lighting fittings

##### Scope

Independent emergency lighting for residential and service areas; it lights on when the power is cut. In the event of a black-out, it can also be used to light dangerous areas (stairs, angles, etc.) and obstacles.

Suitable for use in:

- homes (entrance, near consumer unit, corridors, stairs)
- offices (meeting rooms, service areas)
- hotels (rooms, corridors, stairs)
- hospitals and clinics (wards, corridors, stairs)

##### Conformity to Standards

LV Directive

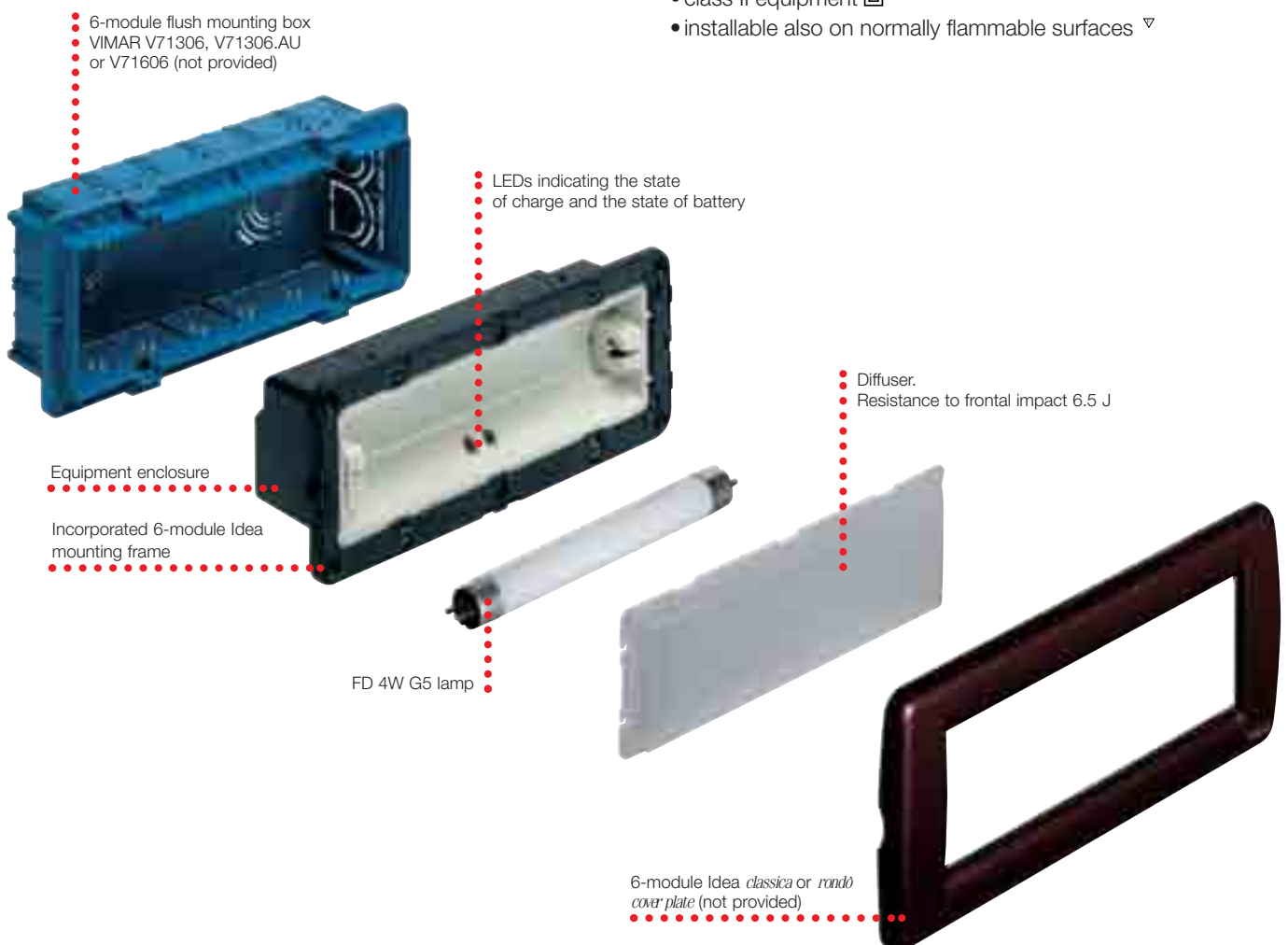
Standards EN 60598-1, EN 60598-2-22

EMC Directive

Standards EN 61547, EN 61000-3-2, EN 61000-3-3, EN 55015

##### Technical specifications

- supply voltage:  
**16440: 230 V~** 50-60 Hz  
**16441: 120 V~** 50-60 Hz
- lamp: FD 4W G5
- rechargeable and replaceable battery NiCd 2,4 V 1,3 Ah
- protection fuse: 2 A delayed (T)  $\varnothing$  5x20 mm
- light flux  $\Phi$ : 29 lumen
- endurance: 1 h
- recharge time: 12 h
- LEDs indicating the state of charge and battery: see table "LEDs state"
- integral with 6-module mounting frame for 6-module Idea *cover plates classica* and *rondò*
- enclosure in self-extinguishing material
- resistance to frontal impact: 6,5 J
- installable on 6/7 module flush mounting boxes V71306, V71306.AU and V71606 or on 6-module flush mounting boxes by main manufacturers
- installable at a height of 2,2 m and 20 cm from the floor level
- degree of protection IP40
- class II equipment
- installable also on normally flammable surfaces



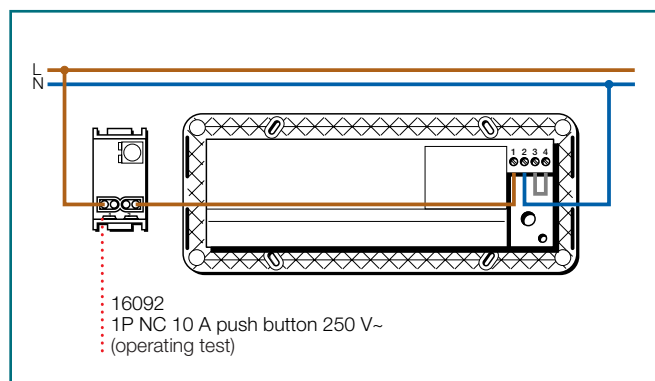
# Acoustic and optical signalling equipments

## Emergency lighting fittings

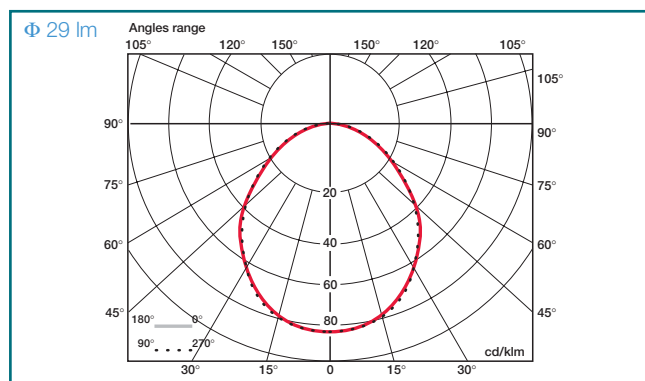
- 16440** Emergency lighting fitting, **230 V~** 50-60 Hz, Ni-Cd rechargeable battery, supplied with FD 4W G5 fluorescent lamp and with 6-module mounting frame for installation on 6/7 module flush mounting boxes.  
To be completed with 6-module Idea *cover plates classica or round*
- 16441** Emergency lighting fitting **120 V~** 50-60 Hz, Ni-Cd rechargeable battery, supplied with FD 4W G5 fluorescent lamp and with 6-module mounting frame for installation on 6/7 module flush mounting boxes.  
To be completed with 6-module Idea *cover plates classica or round*



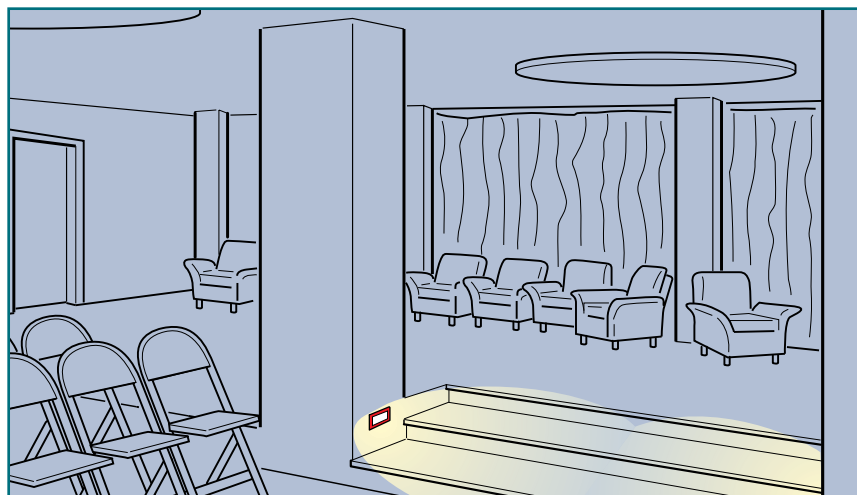
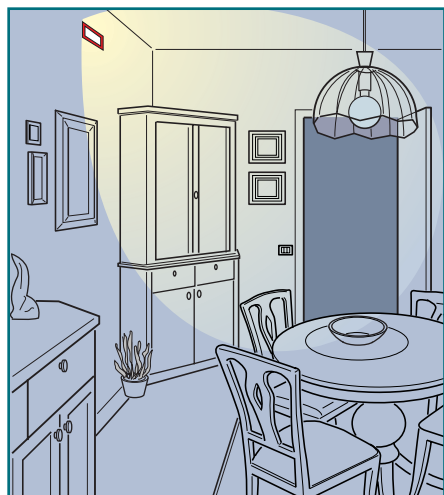
## Wiring diagram



## Photometric diagram

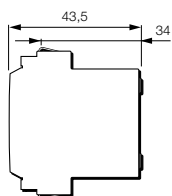


## Example of use



## Dimensions (mm)

Side views show the overall dimensions and the flush depth



16440  
16441

## LEDs state

	Green LED	Red LED
Equipment supply	●	○
Equipment supplied and battery charged	●	○
Battery recharging	⊙	○
Equipment supplied and battery charged	⊙	○
Battery voltage beneath the minimum charging threshold	●	●
Battery disconnected or fuse burn out	○	●
Battery to be replaced	●	⊙

3 minutes every hour

● ● LED on    ⊙ ⊙ Flashing LED    ○ ○ Led off



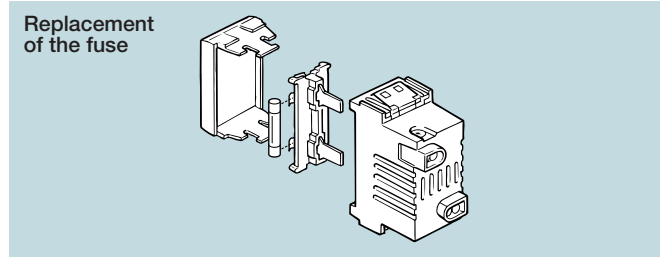
## Protection equipments

### Technical characteristics

Fuse carrier

Conformity to Standards

LV Directive



SCUDO, transient voltage suppressor

Scope

Protection of the socket outlets for the supply of any kind of household electrical appliances, especially those with electronic components (Hi-Fi, TV sets, videocassette recorders, computers etc.) from damages deriving from the presence of transient voltages in supply circuits.

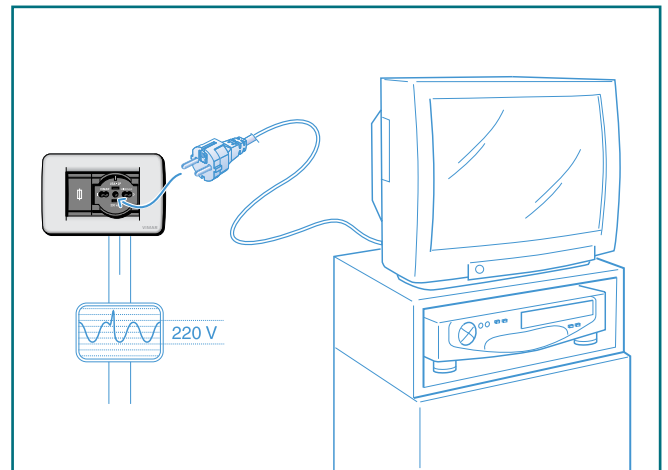
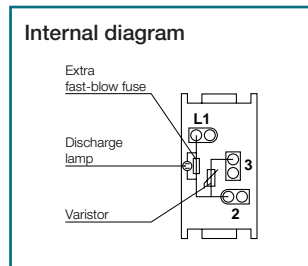
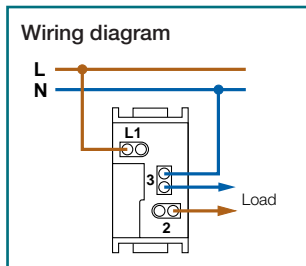
Conformity to Standards

LV Directive

Technical specifications

- supply voltage: 250 V~
- max allowable peak current: 4,5 kA (8/20  $\mu$ s)
- allowable energy: 72 J (10/1000  $\mu$ s)
- FF 16 AH 250 V extra fast-blow fuse, breaking capacity 1500 A, replaceable
- front discharge lamp to indicate the blow out of the fuse
- for wiring diagrams, see diagram below

Example of use



Circuit breakers (CBs)

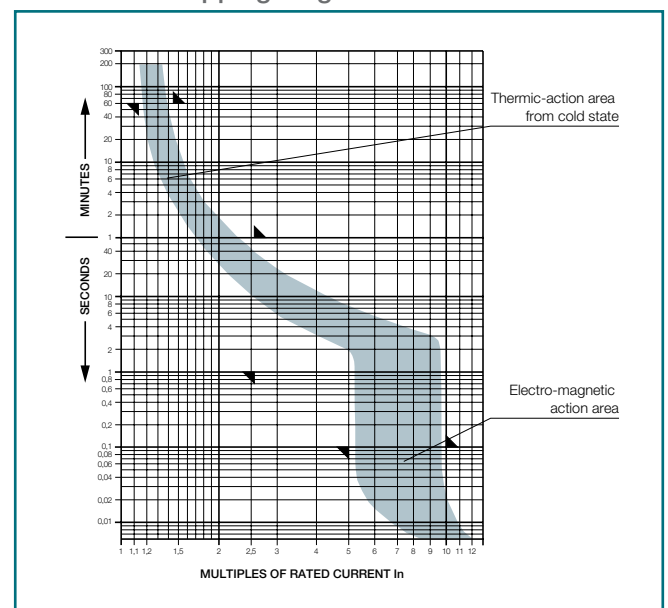
Scope

Protection of the circuits and of the electrical appliances connected against overload and short-circuit.

Technical specifications

- rated voltage: 120-230 V~ -15% +10% 50-60 Hz
- rated current: 6 A, 10 A, 16 A
- C type thermal-magnetic action (see current-time tripping diagram)

Current-time tripping diagram



Conformity to Standards

LV Directive

Standard EN 60898

### Circuit breakers (CBs)

Poles	Breaking capacity 1500 A	Breaking capacity 3000 A
1P (single-pole with 1 protected pole)	6 A, 10 A, 16 A	---
1P+N (two-pole with 1 protected pole)	6 A	10 A, 16 A

# Protection equipments

## Protection equipments

Grey	White
16460	.B 1P 16 A 250 V~ fuse carrier for $\varnothing$ 5x20 mm and $\varnothing$ 6,3x32 mm miniature fuses. Fuse is not supplied
16481	.B SCUDO, transient voltage suppressor with fuse protection and blow-out indicator



## 1P circuit-breakers (CBs)



Grey	White
16504.06	.B 1P C 6 circuit-breaker, supply voltage 120-230 V~ 50-60 Hz, breaking capacity 1500 A, dissipated power 1,2 W
16504.10	.B 1P C 10 circuit-breaker, supply voltage 120-230 V~ 50-60 Hz, breaking capacity 1500 A, dissipated power 1 W
16504.16	.B 1P C 16 circuit-breaker, supply voltage 120-230 V~ 50-60 Hz, breaking capacity 1500 A, dissipated power 2,1 W



## 1P+N circuit-breakers (CBs)

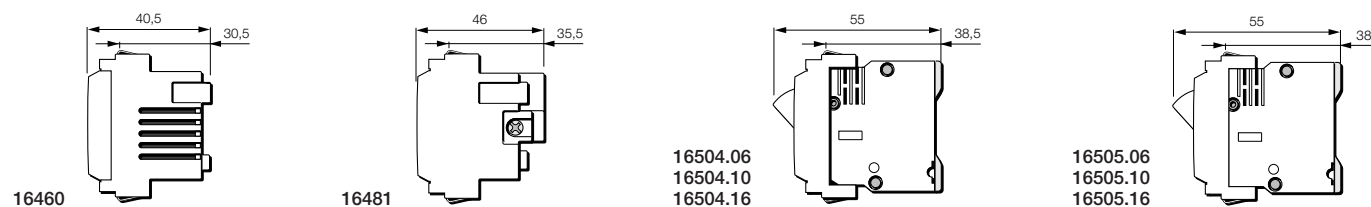


Grey	White
16505.06	.B 1P+N C 6 circuit-breaker, supply voltage 120-230 V~ 50-60 Hz, breaking capacity 1500 A, dissipated power 1,2 W
16505.10	.B 1P+N C 10 circuit-breaker, supply voltage 120-230 V~ 50-60 Hz, breaking capacity 3000 A, dissipated power 1 W
16505.16	.B 1P+N C 16 circuit-breaker, supply voltage 120-230 V~ 50-60 Hz, breaking capacity 3000 A, dissipated power 2,1 W



## Dimensions (mm)

Side views show the overall dimensions and the flush depth



## Protection equipments

### Technical characteristics

#### Scope

Equipments suitable to be installed at the end of a system for the protection of the load connected after them directly or through a socket outlet, against overload and short-circuit, and for the protection of the user against electrocution.

The protection against overload and against short-circuit is granted by the electromagnetic part of the equipment; the protection of the user against electrocution is given by the residual current breaker with overcurrent protection, for a value of 10 mA (sensitivity).

It is available also in the version with sensitivity  $I_{\Delta n}$  of only 6 mA.

The equipments are also equipped with the following functions:

- **internal temperature monitoring function:** an internal device monitors the temperature and, when the safety threshold is exceeded, automatically opens the switch
- **function which monitors the electrical continuity of the residual current sensor secondary, and which opens the switch if the continuity fails:** this is a useful self-test function of the residual current switch
- **over-voltage protection function:** if the voltage at the switch inputs exceeds an established threshold, the contact is opened. This function also assists the installer in three-phase systems 380 V~, by preventing the erroneous “phase-phase” connection instead of “phase-neutral”.

A green LED on the front illuminates to indicate normal operation, i.e. mains voltage present and contacts closed.

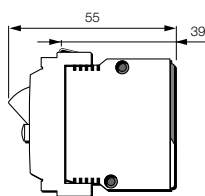
The residual current function is also tripped by non-sinusoidal fault currents (alternating currents with unidirectional pulsating currents).

They are particularly suitable for the protection of:

- appliances at the end of the line in locations with high risk of electrocution (bathrooms, shower-baths, etc.)
- socket outlets for the supply of class I appliances with electronic circuits
- socket outlets for the supply of portable appliances in residential and similar applications (electric irons, electrical tools, etc.)

#### Dimensions (mm)

Side views show the overall dimensions and the flush depth



- 16511.06
- 16511.10
- 16511.16
- 16511.16.6

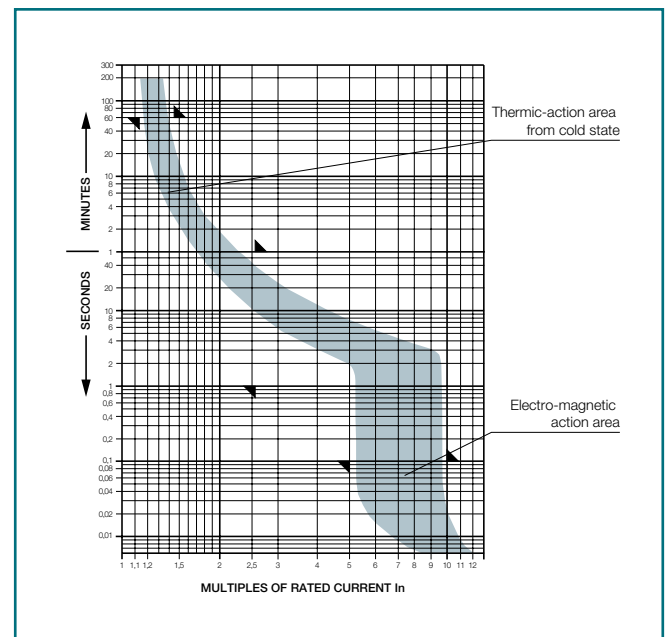
#### Technical specifications

- supply voltage: 120-230 V~ -15% +10% 50-60 Hz
- residual current (sensitivity):  $I_{\Delta n}$  10 mA and 6 mA
- operation depending on the mains voltage (standards EN 61009-1 § 4.1.2): to be connected after a master RCBO
- rated current: 6 A, 10 A, 16 A
- two-pole with 1 protected pole
- breaking capacity:
  - 1500 A (6 A)
  - 3000 A (10 A and 16 A)
- residual making and breaking capacity: 1500 A
- C type thermal-magnetic action (see current-time tripping diagram)
- A type equipment for alternating and unidirectional pulsating fault currents  $I_{\Delta n}$ .

#### Conformity to Standards

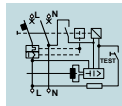
- LV Directive
- EMC Directive
- Standard EN 61009-1

#### Current-time tripping diagram



# Protection equipments

## Residual current breakers with overcurrent protection (RCBOs)



Grey      White

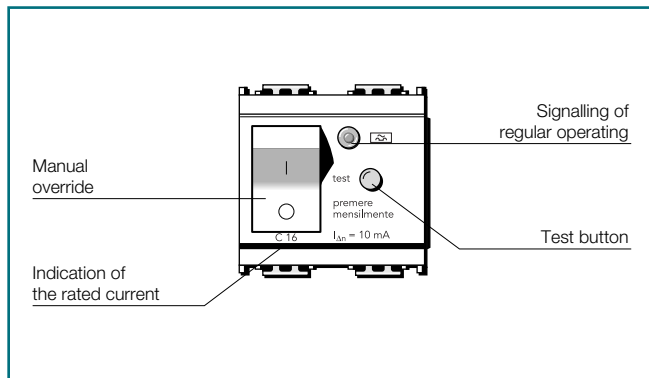
- |                 |           |  |
|-----------------|-----------|--|
| <b>16511.06</b> | <b>.B</b> | 1P+N C 6 residual current breaker with overcurrent protection, supply voltage 120-230 V~ 50-60 Hz, $I_{\Delta n}$ 10 mA, breaking capacity 1500 A, dissipated power 1,3 W - 2 modules  |
| <b>16511.10</b> | <b>.B</b> | 1P+N C 10 residual current breaker with overcurrent protection, supply voltage 120-230 V~ 50-60 Hz, $I_{\Delta n}$ 10 mA, breaking capacity 3000 A, dissipated power 1,1 W - 2 modules |



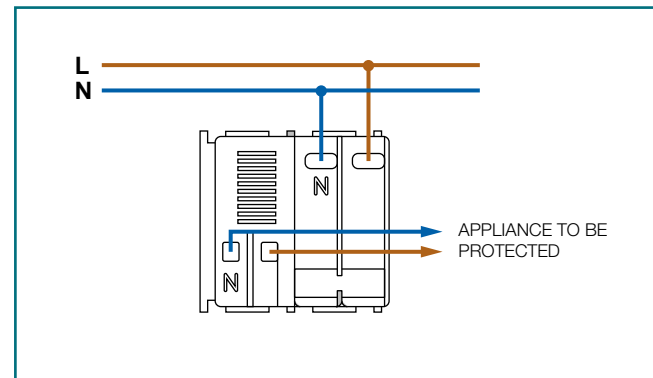
- |                   |           |   |
|-------------------|-----------|---|
| <b>16511.16</b>   | <b>.B</b> | 1P+N C 16 residual current breaker with overcurrent protection, supply voltage 120-230 V~ 50-60 Hz, $I_{\Delta n}$ 10 mA breaking capacity 3000 A, dissipated power 2,5 W - 2 modules |
| <b>16511.16.6</b> | <b>.B</b> | 1P+N C 16 residual current breaker with overcurrent protection, supply voltage 120-230 V~ 50-60 Hz, $I_{\Delta n}$ 6 mA breaking capacity 3000 A, dissipated power 2,5 W - 2 modules  |



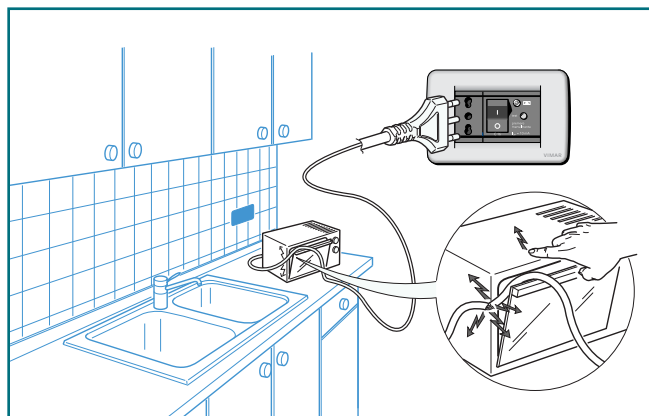
### Frontal view



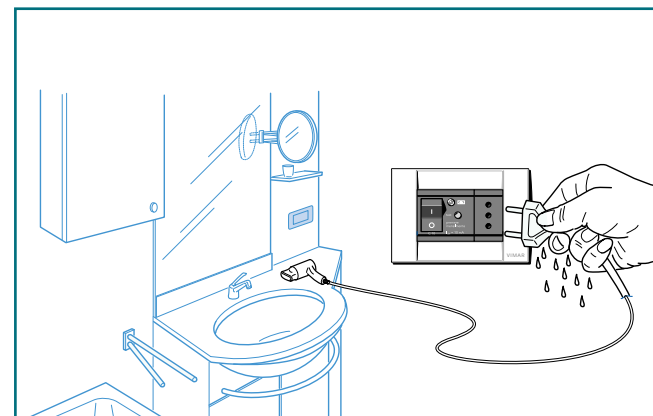
### Wiring diagram



### Example of use in the kitchen



### Example of use in the bathroom



## Detection equipments

### Technical characteristics

#### Gas detectors

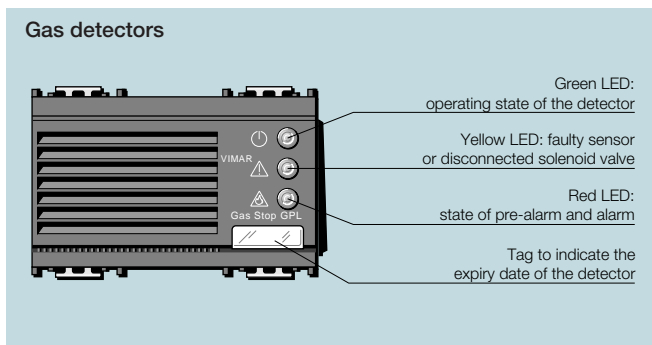
##### Scope

Suitable for the detection in the environment of an abnormal concentration of LPG and liquified gases (16591) or of methane gas (16592) in quantities much lower than those generally accepted as the danger threshold. It operates on a solenoid cut-off valve and switches off the gas supply. At the same time, it signals that a leak has been detected and that the gas has been switched off, by means of optical (LED) and acoustic (buzzer) warning devices.

##### Technical specifications

- supply voltage: 230 V~ ±10% 50-60 Hz
- sensor: tin dioxide semiconductor
- sealed calibration with thermal compensation
- “Gas Stop GPL” operating threshold:
  - pre-alarm: 6% L.I.E.<sup>1</sup> (iso-butane)
  - alarm: 12% L.I.E.<sup>1</sup> (iso-butane)
- “Gas Stop Metano” operating threshold:
  - pre-alarm: 5% L.I.E.<sup>1</sup> (methane)
  - alarm: 10% L.I.E.<sup>1</sup> (methane)
- control on the solenoid valve: electronic
- protection against short-circuits: electronic without fuse
- terminals **L - N**: supply voltage 230 V~ ±10% 50-60 Hz
- terminals **6 - 7**: connection VIMAR 16590 solenoid valve or manually resettable solenoid valve NO 12 V d.c. 13 W with maximum excitation of 0,4 Joule after removing the load resistor
- terminals **3-4-5**: output relay with change-over contact for connecting extra alarm signals or different types of solenoid valves from the one indicated above (terminals 3-4 if NC; terminals 4-5 if NO)

1: Lower Explosive Limit



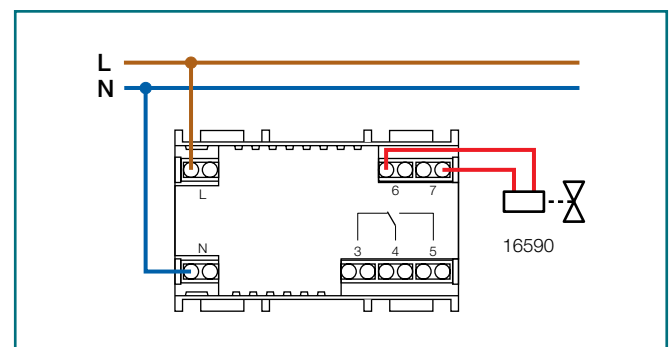
##### Conformity to Standards

- LV Directive
- Standard UNI CEI 70028
- EMC Directive
- Standard EN 50270

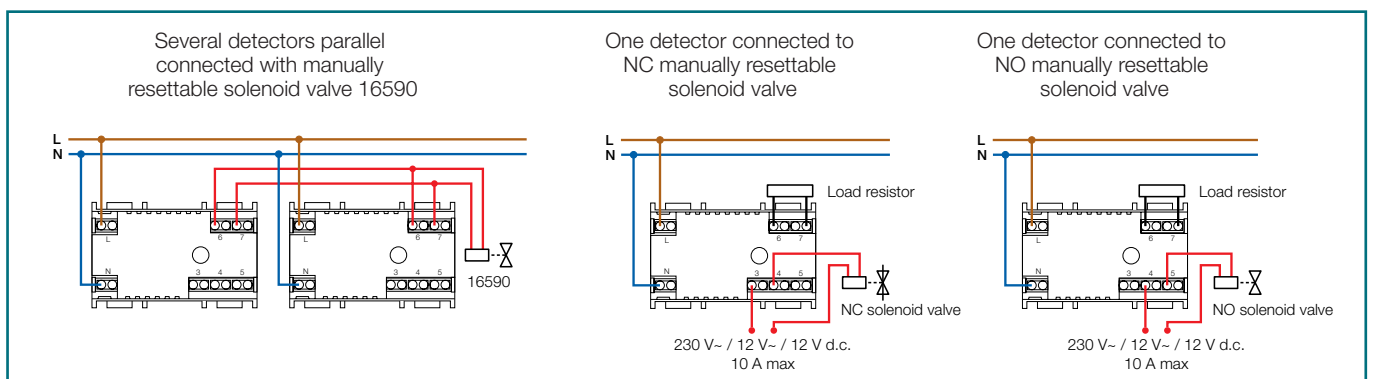
- operating signals:
  - acoustic through piezoelectric (buzzer) 85 dB at 1 m
  - optical, through frontal LEDs (green ◯, yellow △, red ▲)
- useful life of the detector to indicate on the signalling tag: 5 years from the date of installation
- degree of protection: IP40
- operating temperature: 0 °C - +40 °C
- allowed relative humidity: max 80% (DIN 40040, D class)
- self-extinguishing, poly-carbonate enclosure
- supplied with Gas test cylinder for testing the installation and for periodical inspection

Thanks to the use of a safety transformer and the insulating distances between circuits, the 230 V~ power supply circuit, the 12 V d.c. solenoid valve output and the relay output are separated by double isolation. This means that the relay can be connected to either a mains-voltage or SELV solenoid valve, and that the output is a SELV.

#### Wiring diagram with solenoid valve 16590



#### Diagrams of possible wirings



# Detection equipments

## Gas detectors

Grey	White
<b>16591</b> 	<b>.B</b> Gas Stop GPL, electronic LPG gas detector with acoustic and optical signalling and control on a solenoid valve, supply voltage 230 V~ 50-60 Hz - 3 modules. Supplied with cylinder 01899 for testing the installation
<b>16592</b> 	<b>.B</b> Gas Stop Metano, electronic methane gas detector with acoustic and optical signalling and control on a solenoid valve, supply voltage 230 V~ 50-60 Hz - 3 modules Supplied with cylinder 01899 for testing the installation



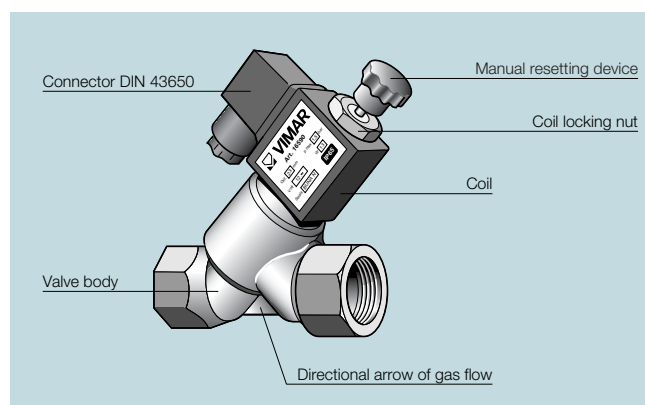
<b>16590</b>	NO manually resettable solenoid valve 3/4", brass body, supply voltage 12 V d.c., absorption 13 W
<b>01899</b>	Gas test cylinder for testing the installation and for periodical inspection of the correct operation of the gas detectors It contains 4 g of test gas, releasing about 400 calibrated single doses 10 mg each



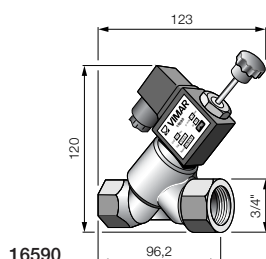
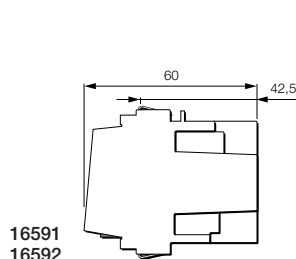
## Solenoid valve

### Technical specifications

- max rated pressure: 10 bar
- max differential pressure: 1,5 bar
- flow diameter: 23 mm
- operating temperature: -10 °C - +55 °C
- fluid temperature: -10 °C - +70 °C (BUNA N)
- supply voltage: 12 V d.c. ±15% or through capacitive-discharge with minimum voltage and energy ≥0,4 Joule
- rated power: 13 W (500 ms minimum excitation time)
- degree of protection: IP65
- orientation of the coil unit: 0° - 360°
- brass valve body, INOX steel internal parts
- suitable for use as a gas shut-off solenoid valve with manual override



### Dimensions (mm) Side views show the overall dimensions and flush depth



## Detection equipments

### Technical characteristics

#### CO detectors

##### Scope

Equipments suitable for:

- detection in the environment of an abnormal concentration of carbon monoxide (CO) in quantities much lower than those generally accepted as the danger threshold
- operating on the solenoid valve intercepting the gas and/or exhaust fans or ventilators, stopping the abnormal combustion producing CO
- It signals that a leak has been detected and that the gas has been switched off, by means of optical (LED) and acoustic (buzzer) warning devices

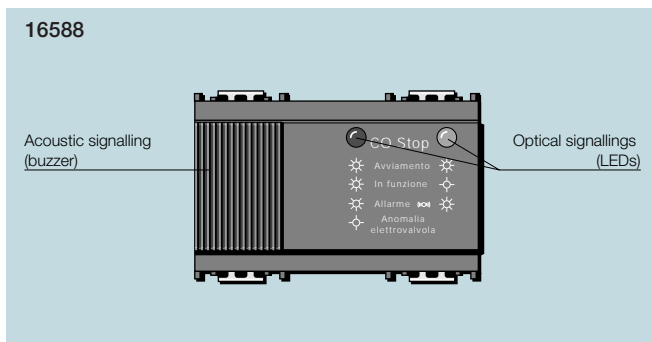
##### Conformity to Standards

EMC Directive

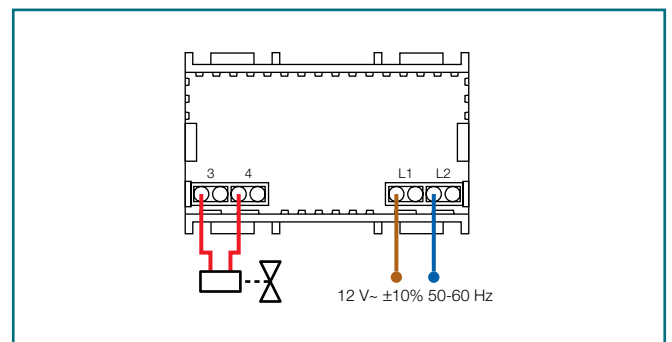
Standard EN 50270

##### 16588 - Technical specifications

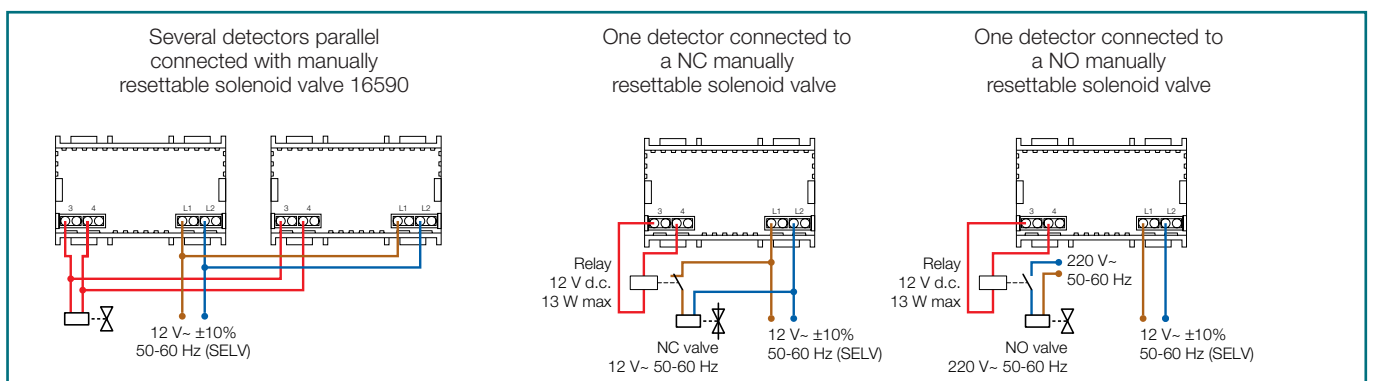
- supply voltage: 12 V~ ±10% 50-60 Hz (SELV)
- to be supplied through safety transformer
- absorption: about 4,5 VA
- sensor: tin dioxide semiconductor
- sealed calibration with temperature compensation
- operating threshold: 200 ppm (0,02%) carbon monoxide (CO)
- electronic control on the solenoid valve
- possibility of connecting to terminals 3 and 4 one monostable relay 12 V d.c. for the control of a solenoid valve other than 16590
- signals of operation:
  - acoustic, through piezoelectric buzzer 85 dB at 1 m
  - optical, through LEDs
- ambient operating temperature: 0 °C - +40 °C
- allowable relative humidity: 80% max (DIN 40040, D class)



#### Wiring diagram with solenoid valve 16590

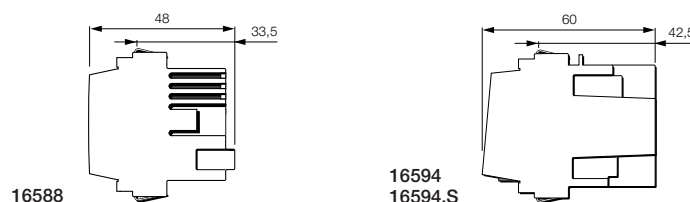


#### Diagram of possible wirings



#### Dimensions (mm)

Side views show the overall dimensions and the flush depth



# Detection equipments

## CO detectors

Grey	White	
16588	.B	CO Stop, electronic carbon monoxide (CO) detector with acoustic and optical signalling and control on a solenoid valve, supply voltage 12 V~ 50-60 Hz (SELV) - 3 modules



16594	.B	CO stop, electronic carbon monoxide (CO) detector with acoustic and optical signalling, 6 A 230 V~ change-over relay output, supply voltage 230 V~ 50-60 Hz - 3 modules
16594.S	.B	CO stop, electronic CO detector with acoustic and optical signalling, 6 A 250 V~ change-over relay output, supply voltage 12-24 V~ 50-60 Hz and 12-24 V d.c. (SELV) 50-60 Hz - 3 modules. For damp and saline ambient



### 16594 and 16594.S technical specifications

- supply voltage
  - 16594:** 230 V~ 50-60 Hz
  - 16594.S:** 12-24 V~ 50-60 Hz and 12-24 V d.c. (SELV)
- sensor: stannic oxide semiconductor
- sealed calibration with temperature compensation
- operating threshold:
  - 100 ppm
  - 300 ppm

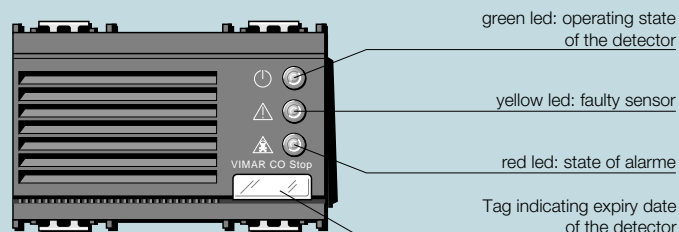
The alarm remains on, in the presence of carbon monoxide (CO) in concentration higher than 100 ppm

- **16594:** terminals **L - N**: supply voltage 230 V~ ±10% 50-60 Hz
- **16594.S:** terminals **+** and **-**: supply voltage 12-24 V~ 50-60 Hz and 12-24 V d.c. (SELV)
- terminals **NC - C - NO**: 6 A 230 V~/250 V~ relay output with change-over for connecting additional alarm signals or different types of solenoid valves (terminals **NC - C** if normally closed; terminals **C - NO** if normally open)
- operating signals:
  - acoustic, through piezoelectric buzzer 85 dB at 1 m
  - optical, through leds (green  $\odot$ , yellow  $\triangle$ , red  $\triangle$ )
- useful life of the detector to indicate on the signalling tag: 5 years from the date of installation
- operating temperature: 0 °C - +40 °C
- allowable relative humidity: 80% max (DIN 40040, D class)
- self-extinguishing, poly-carbonate enclosure

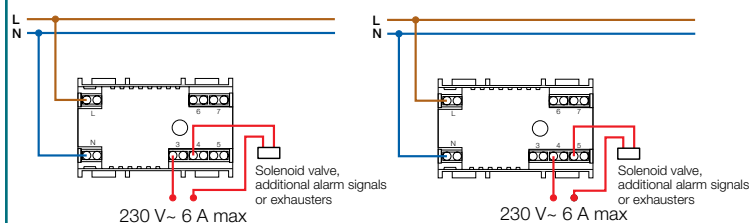
### Conformity to Standards

LV Directive  
EMC Directive  
Standard CEI UNI 70032

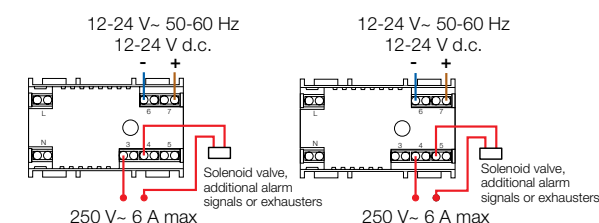
### 16594 and 16594.S



### 16594 - wiring diagrams



### 16594.S - wiring diagrams





## Detection equipments

### Technical characteristics

#### Smoke detectors

##### Scope

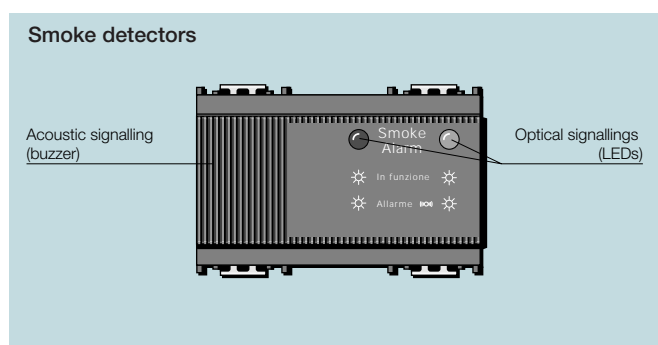
Electronic detector for white smokes presence in the ambient air for residential and commercial applications.

##### Technical specifications

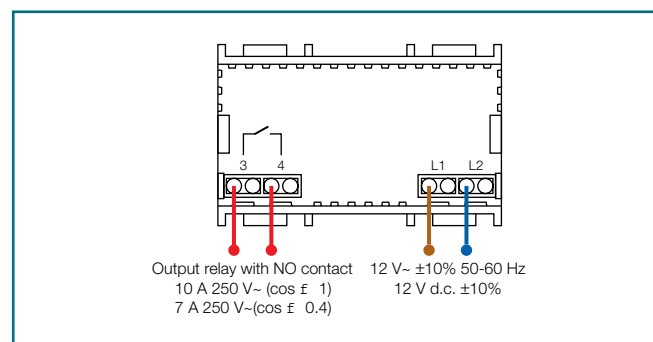
- supply voltage: 12 V d.c.  $\pm 10\%$  or 12 V~  $\pm 10\%$  50-60 Hz (SELV)
- to be supplied through safety transformer
- absorption: at rest 10 mA with 12 V d.c. and 20 mA 12 V~; during alarm 80 mA with 12 V d.c.; 160 mA with 12 V~
- infrared optical sensor
- signalings of operation: acoustic through built-in buzzer, optical through frontal LEDs
- output relay with NO contact rated 10 A 250 V~  $\cos \phi 1$  (7 A 250 V~  $\cos \phi 0,4$ ) closing when smokes are detected by the sensor. It can be used to drive exhaust fans, motor-driven doors and windows, alarms, etc.

##### Conformity to Standards

LV Directive  
Standard EN 60065  
EMC Directive  
Standards EN 50081-1, EN 50082-1



##### Wiring diagram



## Detection equipments

### Smoke detectors

Grey	White
16589	.B

Smoke Alarm, electronic smoke detector with acoustic and optical signalling, NO 10 A 250 V~ relay output, supply voltage 12 V~ 50-60 Hz (SELV) and 12 V d.c. - 3 modules

16589



16589.B



### Dimensions (mm)

Side views show the overall dimensions and the flush depth



16589

## Detection equipments

### Technical characteristics

#### Presence detector for burglar alarm systems

##### Scope

Peripheral detection unit suitable for any burglar alarm system available on the market

##### Installation

- at 1,1-1,2 m from the floor level, far from heat sources and not exposed to direct sunlight (Fig. 1)
- wiring as indicated in Fig. 3
- surface mounting with orientable support 16835

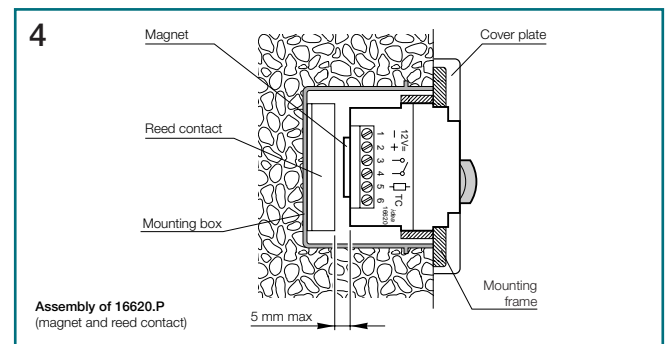
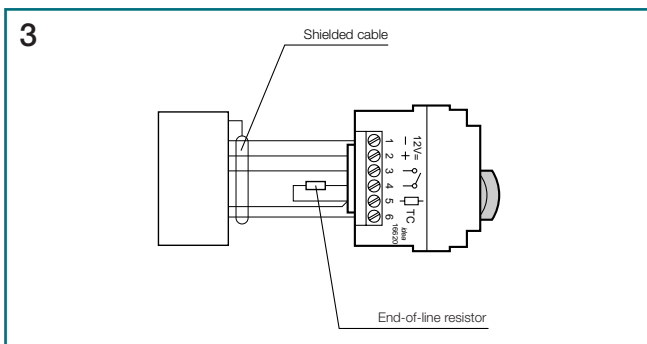
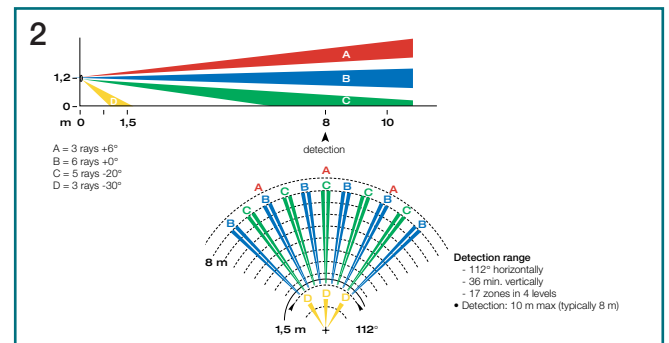
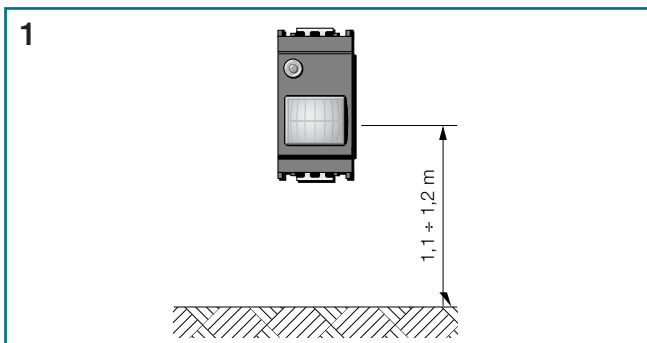
##### Conformity to Standards

EMC Directive

Standards CEI 79-2, EN 50130-4, EN 50081-1

##### Technical specifications

- supply voltage 12 V d.c. (10,5 - 14 V d.c.)
- absorption: < 6,5 mA
- alarm output: NC relay, rating 0,1 at 30 V d.c. max for signal circuits; for dividing d.c. relay coils, include a protection diode.
- pyroelectric sensor and Fresnel lens: detect the movement of persons within the sensor detection range
- detection range, see Fig. 2
- protection against electromagnetic interferences (Italian standard CEI 79-2 1<sup>st</sup> level)
- additional protection tamperproof (16620.P - Fig. 4)

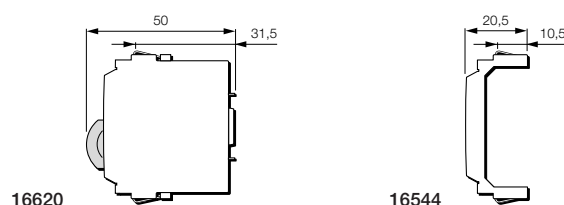


##### Adaptors for electronic keys insertion

For the installation on the mounting frames for Idea series equipments of the electronic keys produced by the most important manufactures of burglar alarm systems (i.e. AT2M ARITECH, PEM2L BRAHMS, DLT50M DOMOTEC, EK20FD ELKRON, 203050 ELSA, CH3/CH4 FRACARRO, I137/I138 LINCE, 11/ICHM RAF, CH/54M SERAI, CHE502/CHE504 SICURIT, ALARMITALIA, CHO1IS STS).

##### Dimensions (mm)

Side views show the overall dimensions and the flush depth



##### Conformity to Standards

LV Directive

## Detection equipments

### Presence detectors for burglar alarm systems

Grey	White	
16620	.B	Passive infrared detector suitable for traditional burglar alarm systems, supply voltage 12 V d.c. (SELV)
16620.P		Tamperproof protection for detector 16620



### Adaptors for electronic keys insertion for burglar alarm systems

Grey	White	
16544	.B	Adaptor for electronic key insertion for burglar alarm systems



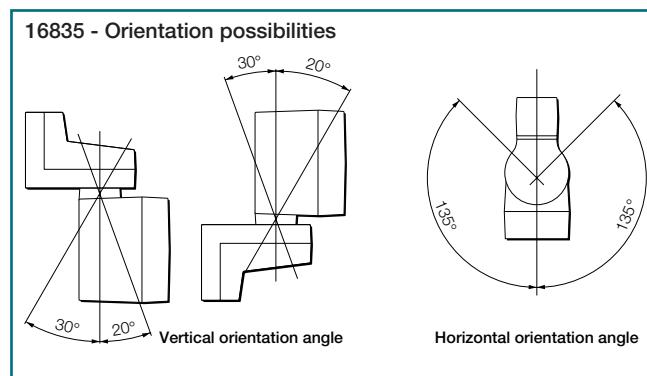
### 1-module orientable supports

Grey	White	
16835	.B	Orientable support for automatic lighting switch with IR motion sensor (16631 and 16632) or for 1-module Idea equipments
16830		Adaptor for flush mounting on Idea mounting frames of orientable support 16835
16831	.B	Frame for the surface mounting of the orientable support 16835



### 16835 - Orientable support

- It allows either the flush mounting in 3-module rectangular boxes or in  $\varnothing$  60 mm round mounting boxes (with adaptor 16830), or the surface mounting (with frame 16831) of passive IR presence detector for burglar alarm system 16620 and of the switch with IR sensor 16631 and 16632
- in burglar alarm systems it guarantees tamperproof use against unauthorized removal (if used together with the kit of tamperproof devices 16897.S, see page 135)
- the support 16835 may be either vertically or horizontally oriented as shown overleaf )



## Regulation and comfort

### Technical characteristics

Dimmers for resistive loads (16560, 16563)

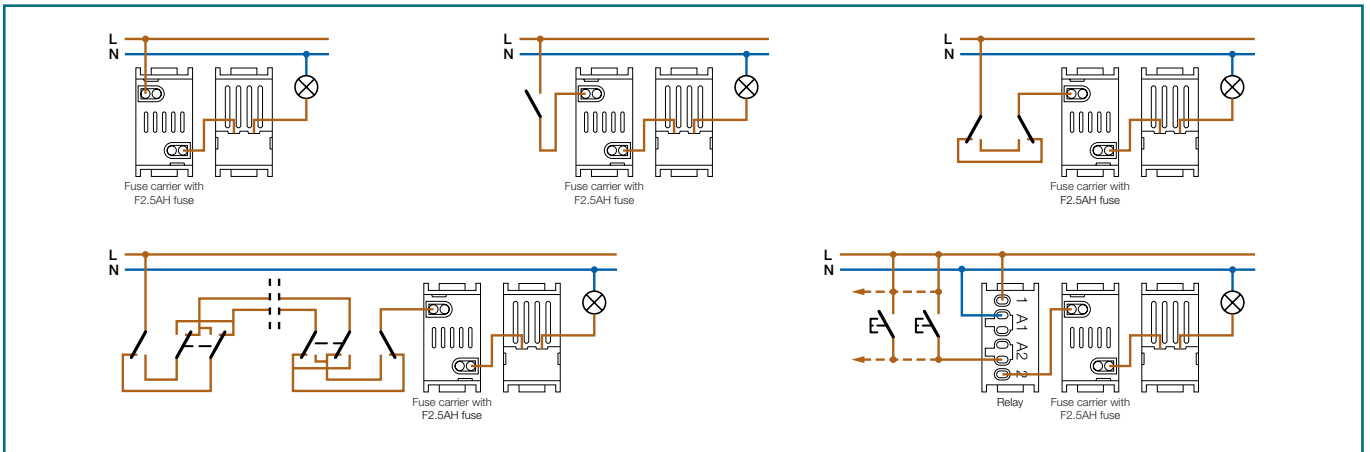
#### Conformity to Standards

LV Directive

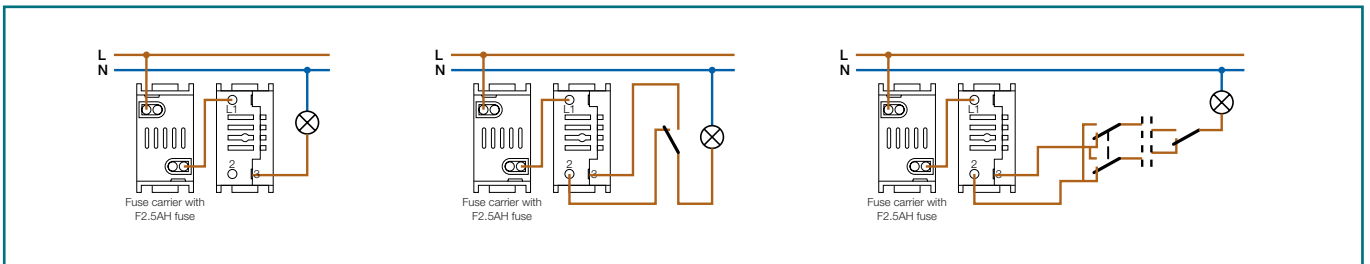
EMC Directive

Standard EN 60669-2-1

#### Wiring diagrams 16560



#### Wiring diagrams 16563



Dimmers for inductive loads (16562)

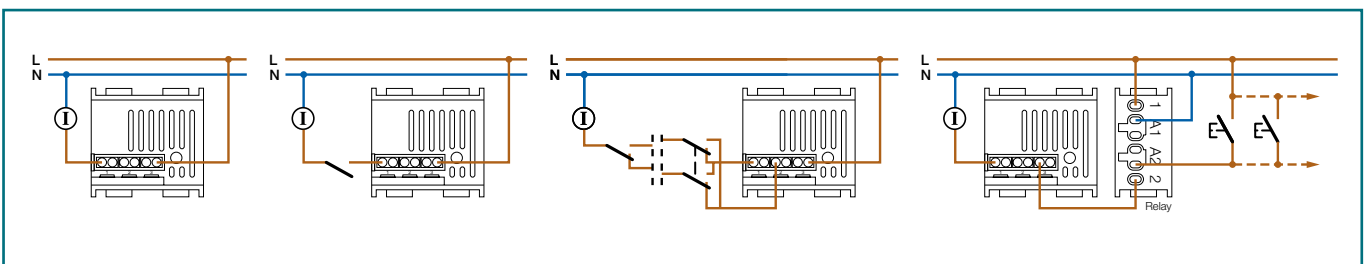
#### Conformity to Standards

LV Directive

EMC Directive

Standard EN 60669-2-1

#### Wiring diagrams



## Regulation and comfort

### Dimmers for resistive loads

Grey	White
16560	.B Dimmer 230 V~ 50-60 Hz for: 100-500 W incandescent lamps, control and regulation by rotary potentiometer, visible in darkness
16563	.B Dimmer 230 V~ 50-60 Hz for: 100-500 W incandescent lamps, control by push-push 2-way switch, regulation by rotary potentiometer, visible in darkness. To be installed in mounting boxes with 48 mm min. depth

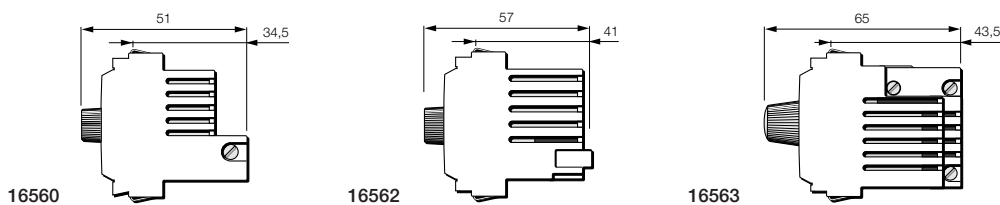


### Dimmers for inductive loads

Grey	White
16562	.B Dimmer 230 V~ 50-60 Hz for: 60-400 VA ferromagnetic transformers, control by push-push 2-way switch, regulation by rotary potentiometer, visible in darkness, protection fuse - 2 modules



### Dimensions (mm) Side views show the overall dimensions and the flush depth



## Regulation and comfort

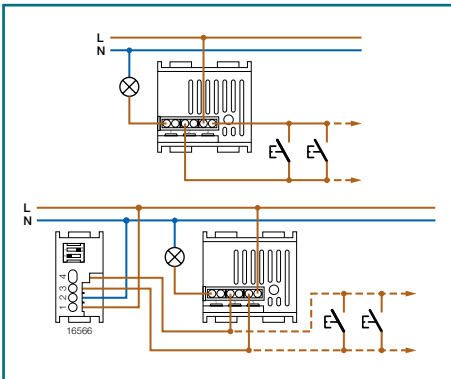
### Technical characteristics

Dimmers for resistive and inductive loads 16561 - 16556 - 16557

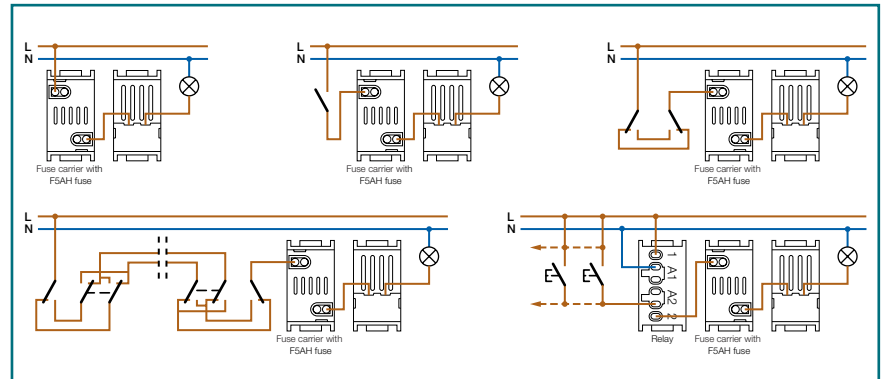
#### 16561 - Conformity to Standards

LV Directive  
EMC Directive  
Standard EN 60669-2-1

#### Wiring diagrams 16561



#### Wiring diagrams 16556 - 16557



#### 16565 - 16567 - Dimmer for inductive loads

- electronic transformers 16550.60 and 16550.105

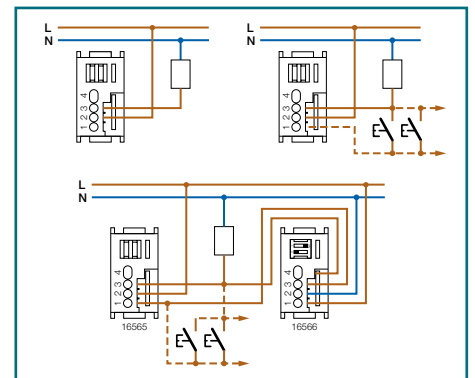
#### Technical specifications

- Soft start: it guarantees a gradual transition from the off state to max brightness, thus increasing the normal life of the lamp, as the stress on the bulb filament during switching on from the cold state is reduced; dazzling effect is also avoided.

#### Conformity to Standards

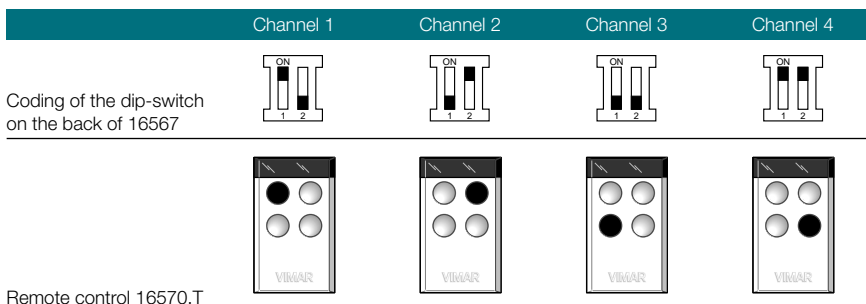
LV Directive  
EMC Directive  
Standard EN 60669-2-1

#### Wiring diagrams 16565

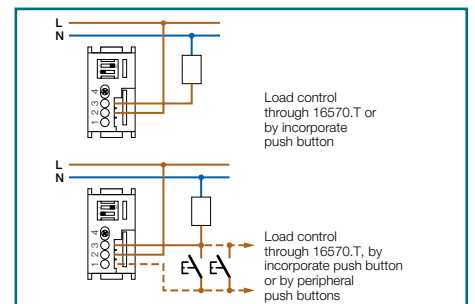


#### Coding of the dip-switch 16567

for use with portable infrared remote control 16570.T



#### Wiring diagrams 16567



# Regulation and comfort

## Dimmers for resistive and inductive loads

Grey	White	
*16556	.B	Dimmer 230 V~ 50-60 Hz for: 60-900 W incandescent lamps, 60-300 VA ferromagnetic transformers, without R.F. interference suppression filter, control and regulation by rotary potentiometer, visible in darkness
*16557	.B	Dimmer 120 V~ 50-60 Hz for: 30-500 W incandescent lamps, 30-300 VA ferromagnetic transformers, control and regulation by rotary potentiometer, visible in darkness

16556  
16557



16556.B  
16557.B



\* Only for Countries not members of the EU

16561	.B	Dimmer 230 V~ 50-60 Hz for: 60-500 W incandescent lamps, 60-500 VA ferromagnetic transformers, control and regulation by incorporated push button or NO peripheral push buttons, visible in darkness, protection fuse - 2 modules. Possibility of use with infrared remote control 16570.T using the receiver 16566
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16561



16561.B



16565	.B	Dimmer 230 V~ 50 Hz for: 25-300 W incandescent lamps 25-300 VA dedicated electronic transformers control and regulation by incorporated push button or NO peripheral push buttons, IGBT technology, visible in darkness. Possibility of use with infrared remote control 16570.T using the receiver 16566
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16565



16567



16567	.B	Dimmer 230 V~ 50 Hz, with infrared receiver and 4-channel dip-switch, for: 25-300 W incandescent lamps 25-300 VA dedicated electronic transformers control and regulation by incorporated push button or NO peripheral push buttons or built-in remote control 16570.T, IGBT technology, visible in darkness
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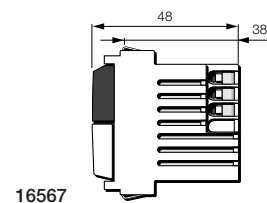
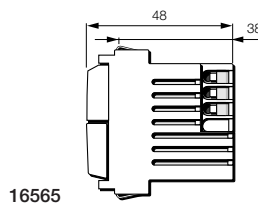
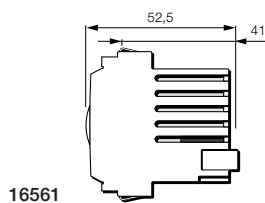
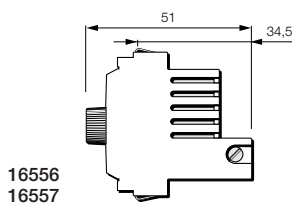
16565.B



16567.B



## Dimensions (mm) Side views show the overall dimensions and the flush depth





## Regulation and comfort






### Technical characteristics

#### Electronic transformers

##### Scope

- Supply of extra low voltage halogen lamps (12 V~).
- Possibility of supply through the mains (230 V~) or, for light adjustment, through dimmers 16565 and 16567.

##### Technical specifications

- Supply voltage: 230 V~ 50 Hz
- Output voltage: 12 V~ (SELV)
- SELV equivalent
- Output power: 10-60 W (16550.60); 20-105 W (16550.105)
- Double isolation - class II 
- Soft start
- Mains overvoltage protection
- Possibility of stand-alone assembly thanks to the terminal covers and cable clamps, for installation in suspended ceilings and accessible areas without any additional protection 
- Thermal protection against overload and short circuit on the secondary; the thermal cut-out is triggered to prevent the enclosure temperature from exceeding 100 °C 
- Suitable for installation on units with a temperature  $\leq 115$  °C at the transformer support base 
- Suitable for installation on normally flammable surfaces 
- Maximum permitted ambient temperature 55 °C ( $t_a$ )
- Dimensions: 38x145x28 mm

##### Conformity to Standards

- LV Directive
- Standard EN 61046
- EMC Directive
- Standards EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547

#### Electronic time delay switches

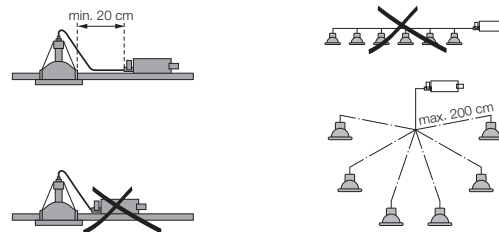
##### Technical specifications

- supply voltage: 230 V~  $\pm 10\%$  50-60 Hz
- output relay with contact rating:
  - 6 A 230 V~ for incandescent lamps
  - 2 A 230 V~ for fluorescent lamps and motor-driven equipments
- delay range 30 s-15 min
- it can be parallel connected with non-luminous NO push buttons

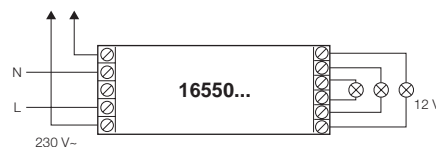
##### Conformity to Standards

- LV Directive
- EMC Directive
- Standard EN 60669-2-1

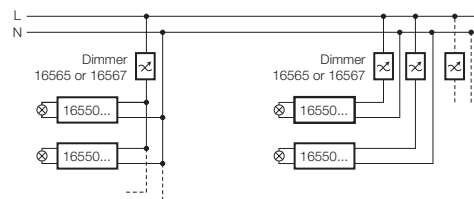
##### Installation



##### Wiring diagram



##### Control through IGBT Vimar dimmers



##### Operation

- control of the load with time delay switching off through built-in push button or through parallel connected non-luminous NO push buttons:
  - diagram 1: the delay time cycle is settable pressing both on the built-in push button and, when lights are off, on the external push buttons
  - diagram 2: the delay time cycle is resettable also when lights are on, pressing either on the built-in push button, or on the external push buttons
- control of lights and households exhaust fans through 2P 1-way switch:
  - diagram 3: simultaneous operation of lights and exhaust fan. The delay time cycle starts at lights switching off and it is resettable pressing on the built-in push button. The exhaust fan will switch off at the end of the delay time cycle.

# Regulation and comfort

## Electronic transformers

<b>16550.60</b>	Regulation electronic transformer for extra low voltage halogen lamps, 10-60 W, output 12 V~ (SELV), supply voltage 230 V~ 50 Hz
<b>16550.105</b>	Regulation electronic transformer for extra low voltage halogen lamps, 20-105 W, output 12 V~ (SELV), supply voltage 230 V~ 50 Hz

16550.60



16550.105



## Electronic time delay switches

Grey	White	
<b>16572</b>	<b>.B</b>	Electronic time delay switch for the control of staircases and utility rooms lighting, of exhaust fans, NO 6 A 230 V~ relay output, visible in darkness, supply voltage 230 V~ 50-60 Hz - 2 modules

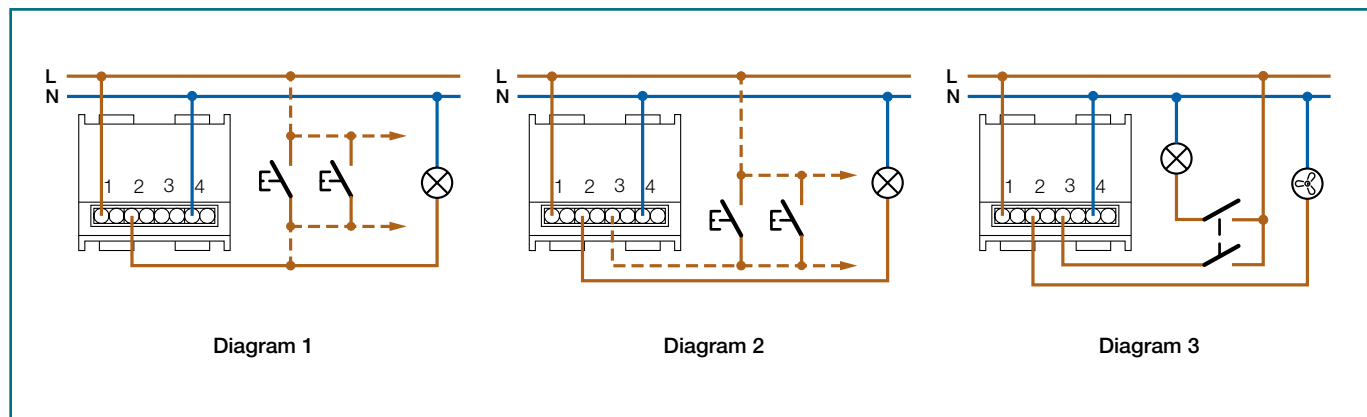
16572



16572.B

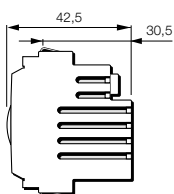


## 16572 - Wiring diagrams

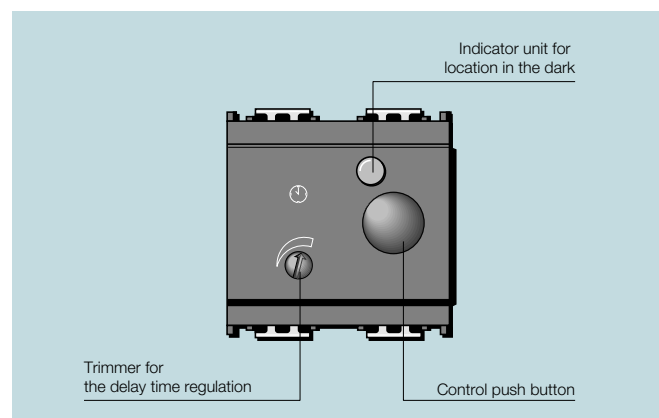


## Dimensions (mm)

Side views show the overall dimensions and the flush depth



16572



## Regulation and comfort

### Technical characteristics

#### Scope

- 16580: control of the ambient air temperature (heating), with possibility of a fixed temperature reduction cycle
- 16581: control of the ambient air temperature (heating and air-conditioning), with possibility of a settable temperature reduction cycle

#### Conformity to Standards 16580

LV Directive  
Standards EN 60730-2-9, EN 60730-1  
EMC Directive  
Standards EN 50081-1, EN 50082-1

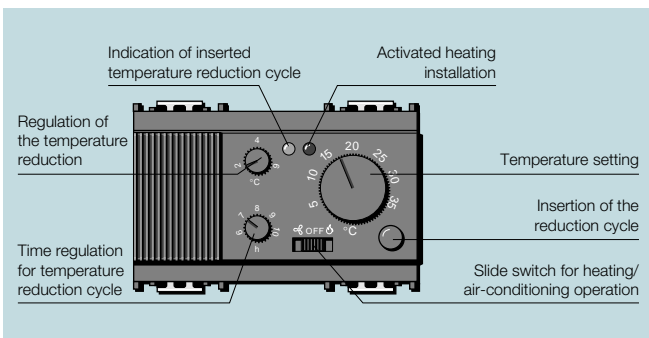
#### Conformity to Standards 16581

LV Directive  
Standards EN 60730-2-7, EN 60730-2-9, EN 60730-1  
EMC Directive  
Standards EN 50081-1, EN 50082-1

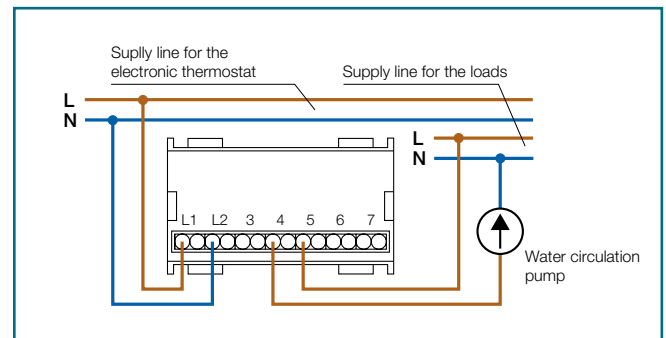
#### Technical specifications

- supply voltage: 230 V~ 50-60 Hz
- absorption: 5 VA
- temperature setting range: +5 °C to +35 °C
- hysteresis:  $\pm 0,5$  °C
- temperature reduction cycle:
  - 16580: fixed temperature reduction 4 °C
  - 16581: temperature reduction adjustable 2 °C to 6 °C
- 16581: adjustable timing of the automatic reduction cycle 6 h to 10 h
- output relay with change-over contact without potential rating 5 A 250 V~  $\cos \phi 1$  (4 A  $\cos \phi 0.7$ )
- recommended installation height: at 1,5 m above the floor level, far from heat sources and in a draught-free emplacement

#### Electronic thermostat 16581



#### Wiring diagrams for 16580 and 16581

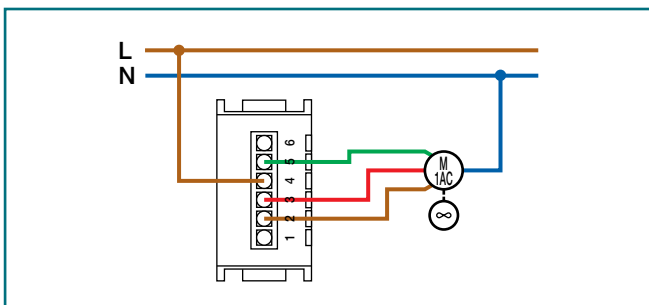


#### Switches for fan-coil regulation

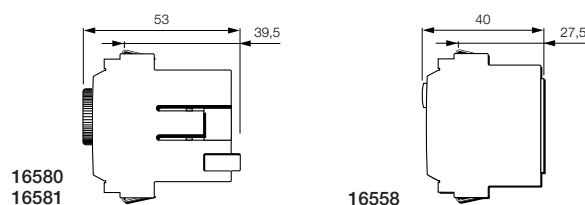
#### Conformity to Standards

LV Directive  
Standards EN 60669-1

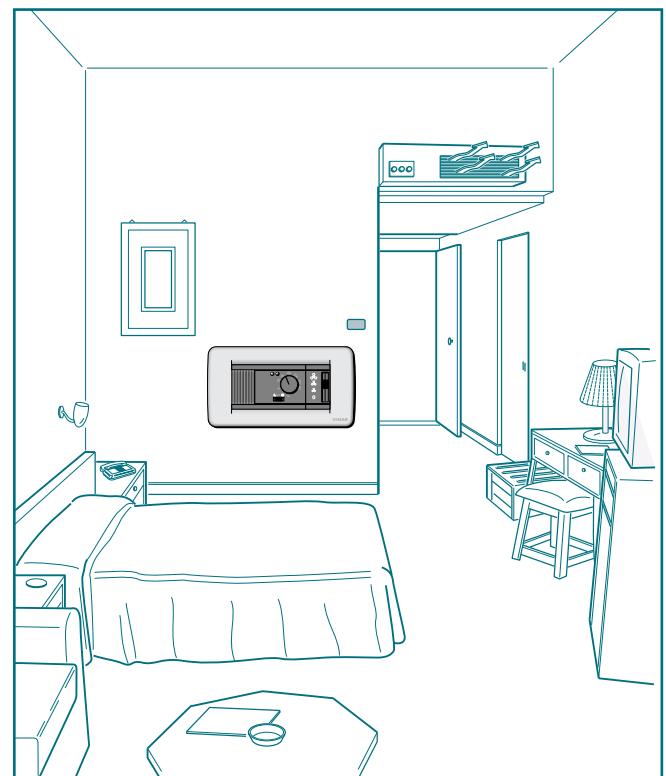
#### 16558 - Wiring diagrams



Dimensions (mm) Side views show the overall dimensions and the flush depth



#### 16558 - Example of use



## Regulation and comfort

### Electronic thermostats

Grey	White
16580	.B Electronic thermostat for ambient air temperature control (heating), fixed temperature reduction cycle, 5 A 250 V~ change-over relay output, supply voltage 230 V~ 50-60 Hz - 3 modules



16581	.B Electronic thermostat for ambient air temperature control (heating and air conditioning), settable temperature reduction cycle, 5 A 250 V~ change-over relay output, supply voltage 230 V~ 50-60 Hz - 3 modules
-------	--



### Switches for fan-coil regulation

Grey	White
16558	.B 1P 6(2) A 250 V~ slide switch, 4 positions, for fan-coil speed adjustment



## Regulation and comfort

### Technical characteristics

#### Electronic chronothermostats

##### Scope

Control of the ambient air temperature (heating and air conditioning) with 24 hour/7 day programs.

Action on the supply circuit of burners or of water circulation pumps (heating) or on the supply circuit of air conditioners (air conditioning).

All parameters may be simply and intuitively programmed through a guided system of interactive menus (all instructions are shown on the display), using the 4 push-buttons on the front of the device.

##### Technical specifications

- Supply voltage:
  - **16575-16575.B:** 120-230 V~ 50-60 Hz
  - **16576-16576.B:** 3 V d.c. with two 1,5 V AA LR6 alkaline batteries (not supplied)
- Average absorption: 1 VA
- Charge reserve for clock:
  - 16575-16575.B: about 10 days, by CR2032 battery (not supplied)
- Output:
  - 16575-16575.B: 6(2) A 230 V~ clean-contact change-over relay
  - 16576-16576.B: 5(2) A 250 V~ clean-contact change-over relay
- Temperature setting range: 0 °C - +40 °C
- Software settings: possibility of compensating the temperature reading with a software offset ( $\pm 3$  °C max) to adapt the measurement to the specific installation conditions
- Regulation range:
  - +4 °C - +15 °C in antifreeze mode
  - +5 °C - +35 °C in heating or air-conditioning modes

##### Operating possibilities:

- hourly temperature settings in 20-minute steps
- 3 temperature levels for heating + 3 temperature levels for air-conditioning
- weekly programming
- 2 fixed programs and 2 user configurable programs (for both heating and air-conditioning)
- possibility of overriding the program to change the temperature
- programs retained even in case of black-out
- antifreeze function
- possibility of timed switch-off
- button lockout function with 3-digit PIN number to prevent unauthorized access to the functions of the equipment and protect its operation and programming (e.g. when installed in a public place)
- Display with timed backlighting feature, activated by pressing one of the four buttons
- Multilingual menu (Italian, English, French, Spanish, German)
- Possibility of fixing the equipment against unauthorized removal by means of the supplied screw
- Possibility of installation in min. 46 mm deep mounting boxes
- Remote activation option by telephone dialler (e.g. 01811) if connected to terminals INPUT, it is possible to switch on the chronothermostat

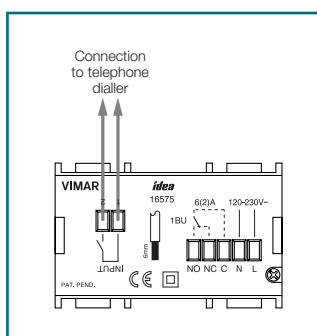
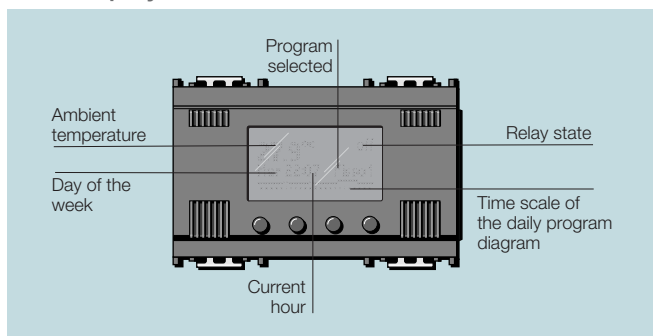
##### Conformity to standards

LV Directive

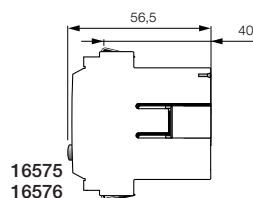
EMC Directive

Standards EN 60730-1, EN 60730-2-7, EN 60730-2-9

#### Data display and front controls



#### Dimensions (mm) Side views show the overall dimensions and the flush depth



# Regulation and comfort

## Electronic chronothermostats



Grey      White

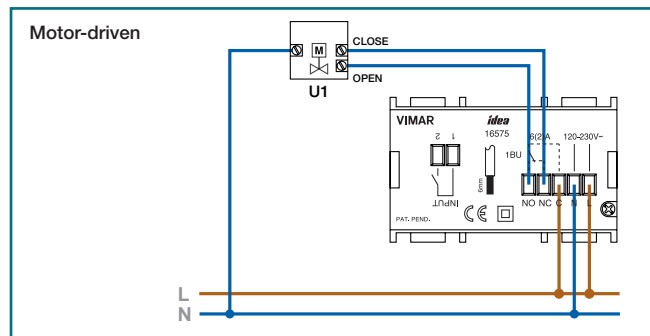
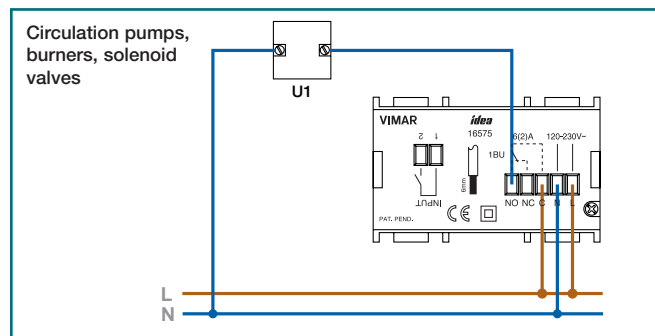
**16575**    **.B**    Electronic chronothermostat for ambient air temperature control (heating and air conditioning), 24 hour/7 days programming, 6(2) A 230 V~ change-over relay output, supply voltage 120-230 V~ 50-60 Hz - 3 modules



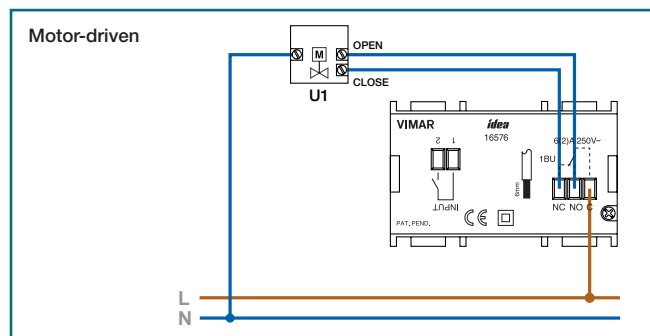
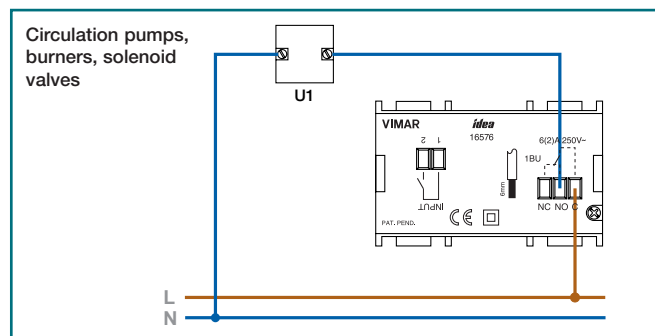
**16576**    **.B**    Electronic chronothermostat for ambient air temperature control (heating and air conditioning), 24 hour/7 days programming, 5(2) A 250 V~ change-over relay output, supply voltage with two 1,5 V AA LR6 batteries (not supplied) - 3 modules



### 16575 - Connections



### 16576 - Connections



## Regulation and comfort

### Technical characteristics

#### 16582 - Programmable timer switches

##### Scope

Automatic switching on and off at preset time, with 24 hour/7 day programs, of electrical loads, suitable or heating and air-conditioning installations, sprinkling systems indoor and outdoor lighting, etc.

##### Technical characteristics

- Supply voltage: 120 - 230 V~ 50-60 Hz
- Average absorption: 1 VA
- Charge reserve for clock: 10 days, by CR2032 battery (not supplied)
- Output: 8 A 230 V~ change-over relay
- Controllable loads:
  - purely resistive loads  $\sim$  : 8 A
  - incandescent lamps  $\text{⚡}$  : 800 W
  - magnetic core transformers for extra low voltage incandescent lamps (e.g. halogen lamps)  $\text{⚡}$  : 800 W
- Not suitable to control fluorescent lamps

- Display with timed backlighting feature, activated by pressing one of the four buttons
- Multilingual menu (Italian, English, French, Spanish, German)
- Programs:
  - 2 user configurable programs (24 hour/7 days)
  - 1 cyclic program (one "on" period and one "off" period, continually repeated and 1 reduced program (1 switch event a day))
- Keypad lock function: possibility of setting a password with 3-digit PIN to block access to all equipment functions and protect the data set and programming (for example, if installed in a public place)
- Possibility of installation in min. 46 mm deep mounting boxes
- Operating temperature: 0 °C - +40 °C
- Possibility of fixing the equipment against unauthorized removal by means of the supplied screw

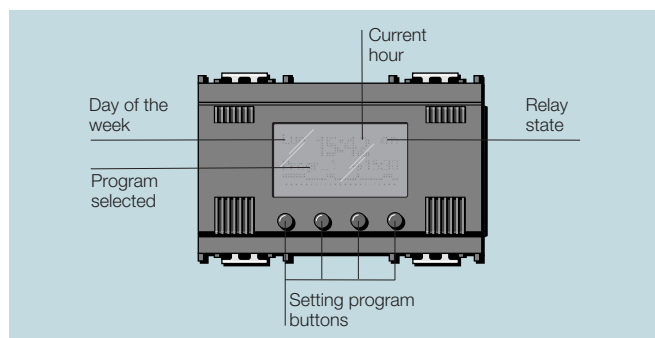
##### Conformity to Standards

LV Directive

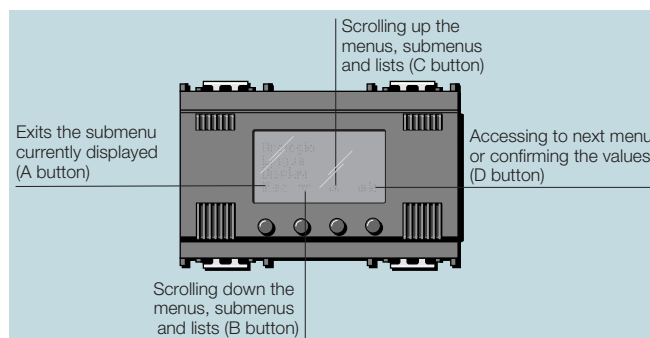
EMC Directive

Standards EN 60730-1, EN 60730-2-7

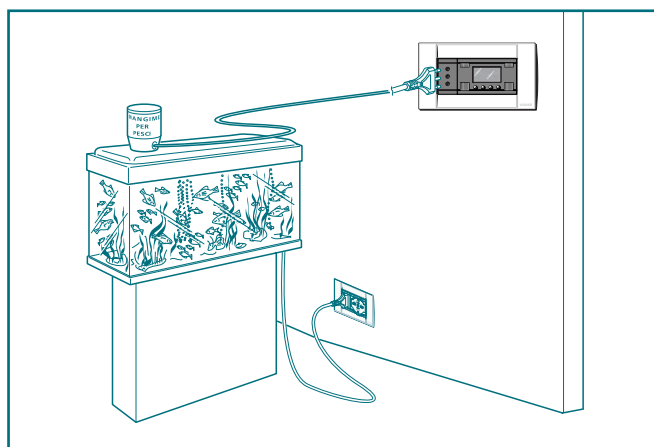
##### Front controls



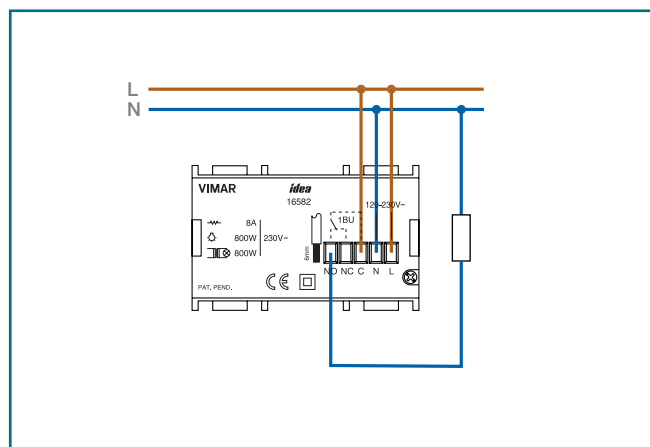
##### Front indications



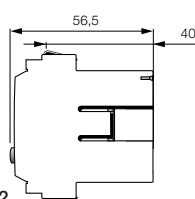
##### Example of use



##### Wiring diagram



##### Dimensions (mm) Side views show the overall dimensions and the flush depth



16582

## Regulation and comfort

### Programmable timer switches



Grey      White

16582	.B	Electronic timer switch 24 hour/7 days, 8 A 230 V~ change-over relay output channel, supply voltage 120-230 V~ 50-60 Hz - 3 modules
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16582



16582.B





## Regulation and comfort

### Technical characteristics

#### Scope

Automatic switching on and off at preset time, with 24 hour/7 day programs, of electrical loads absorbing max 3500 W. Particularly suitable for heating and air-conditioning installations, sprinkling systems, indoor and outdoor lighting, etc.

#### Technical specifications

- supply voltage: 110-230 V~ ±10% 50-60 Hz + 10 years power reserve through the built-in battery
- absorption: about 2 VA
- built-in transient voltage suppressor
- operating accuracy of the time delay switch: error < 15 s monthly
- liquid crystal display
- programming capacity: 30 daily switching sequences (15 ON + 15 OFF with 1 minute time interval min) for max 210 operations a week and possibility of programming for groups of days
- programmable even in absence of supply (i.e. before connecting the equipment to the mains)

- Holiday function: it allows the temporary stop of the set program from 1 to 99 days
- output relay with change over contact without potential rating 16 A 250 V~ cos  $\phi$  1 (8 A cos  $\phi$  0,7)
- operation:
  - according to set program
  - with an ON-OFF non permanent manual operation
  - with an ON or an OFF permanent manual operation with no change on the set program
- independent programming of the two output relays for the type with two output channels

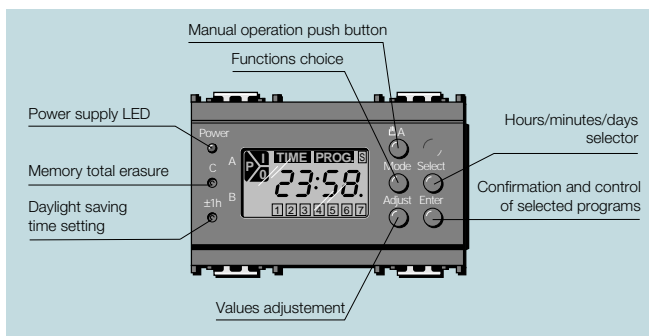
#### Conformity to Standards

LV Directive

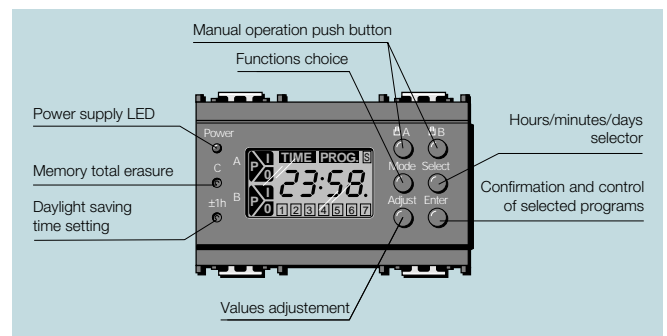
Standards EN 60730-2-7, EN 60730-1

EMC Directive

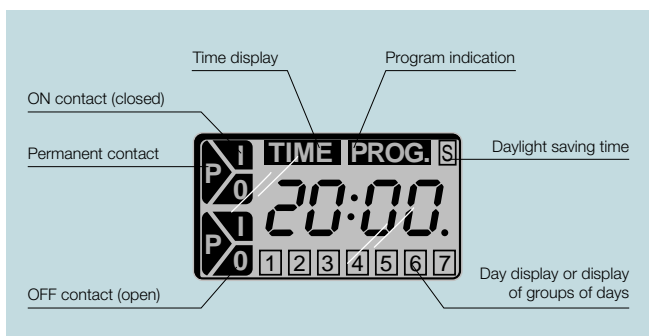
#### 16584 - Programmable timer switch



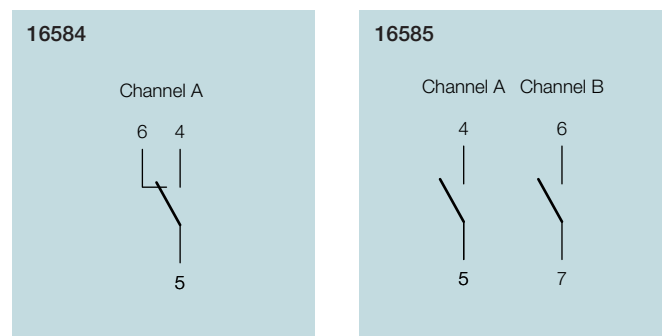
#### 16585 - Programmable timer switch



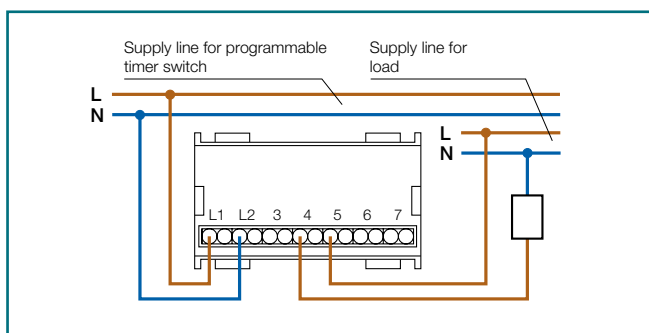
#### Description of indications on the display



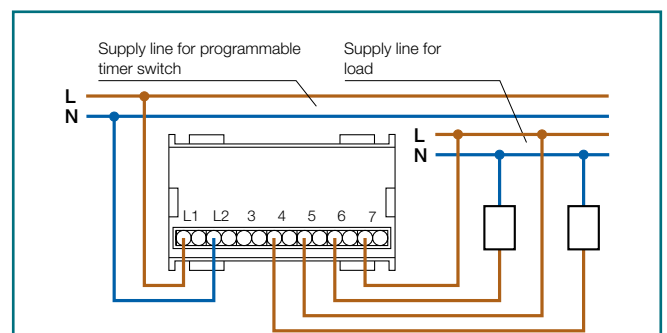
#### Possible connections



#### 16584 - Wiring diagram



#### 16585 - Wiring diagram



## Regulation and comfort

### Programmable timer switches

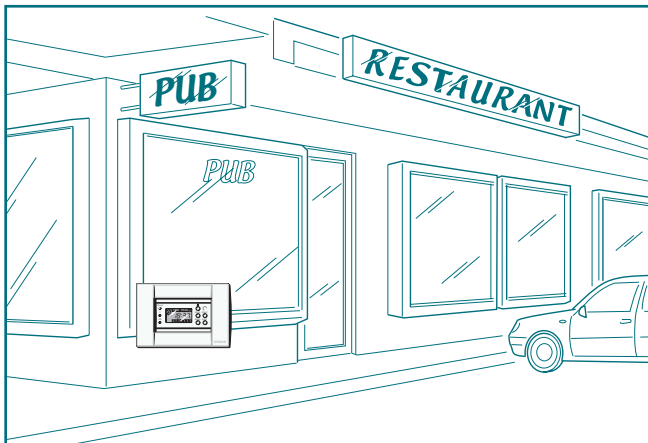
Grey	White	
16584	.B	Electronic programmable timer switch, 1P 16 A 250 V~ change-over relay output channel, supply voltage 110-230 V~ 50-60 Hz - 3 modules



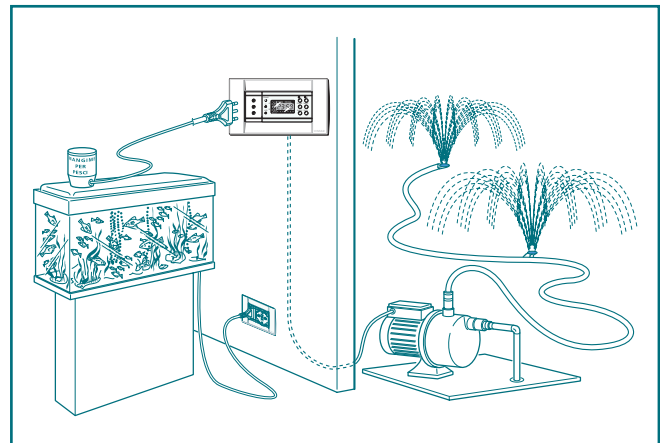
16585	.B	Electronic programmable timer switch, 2 independent NO 16 A 250 V~ relay output channels, supply voltage 110-230 V~ 50-60 Hz - 3 modules
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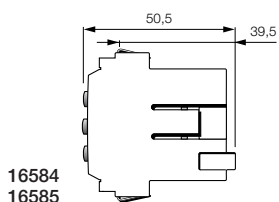
### 16584 - Example of use



### 16585 - Example of use



### Dimensions (mm) Side views show the overall dimensions and the flush depth



## Regulation and comfort

### Technical characteristics

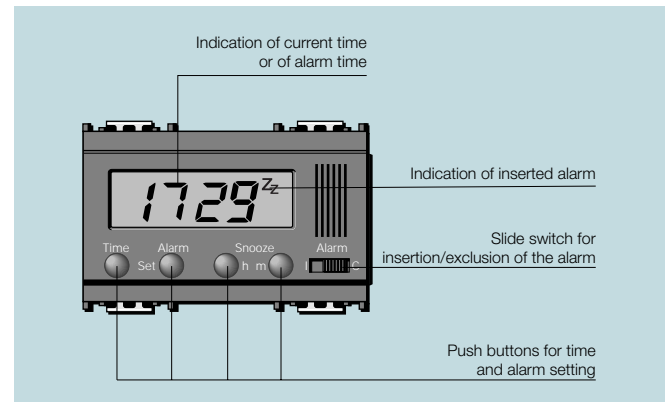
#### 16574 - Electronic alarm clocks

##### Technical specifications

- supply voltage: 110-230 V~ ±10% 50-60 Hz + 24 h power reserve through built-in battery
- backlit liquid crystal display, with figures 13 mm high
- acoustic signal through built-in buzzer, 65 dB at 1 m
- acoustic signal lasting about 1 minute
- snooze function (temporary silencing of the alarm): the alarm restarts after about 8 min

##### Conformity to Standards

LV Directive  
Standards EN 60065  
EMC Directive  
Standards EN 50081-1, EN 50082-1



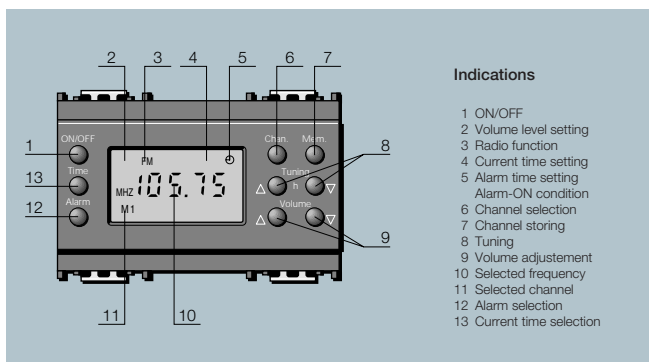
#### 16652 - Electronic clock radios

##### Scope

Suitable for individual independent listening points of FM radio programs. It is provided with alarm function, which suggests mounting near bed-heads. Its miniaturized dimensions and the possibility of mounting in ordinary mounting boxes allow wiring concealment and avoid possible fall damages.

##### Technical specifications

- push button controls
- supply voltage: 12 V~ ±10% 50-60 Hz or 12 V d.c. ±10% (SELV)
- to be supplied through safety isolating transformer
- absorption: max 500 mA
- PLL tuner at frequency modulation (87,5÷108 MHz)
- possibility of memorizing 4 FM stations (channel M1, M2, M3, M4)
- power reserve to maintain the settings even if the supply is interrupted: up to 1 hour
- 24 hour clock with alarm function
- liquid crystal display sized 37x21 mm
- data display: frequency of the tuned station, memorized channel, level of the volume, current time, alarm time, alarm-on indication
- aerial feeder: insulated conductor with cross sectional area < 1,5 mm<sup>2</sup> and length 37,5 cm



#### 16656 - Amplified speakers of clock radios

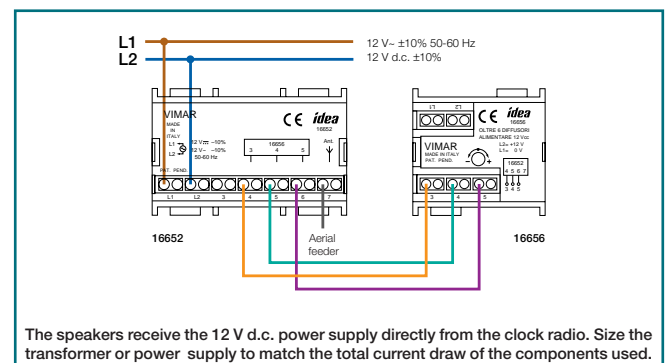
##### Technical specifications

- supply voltage: 12 V d.c.
- absorption: max 200 mA
- max sound power: 2 W rms
- bandwidth 150÷15.000 Hz
- trimmer for the setting of the max sound level

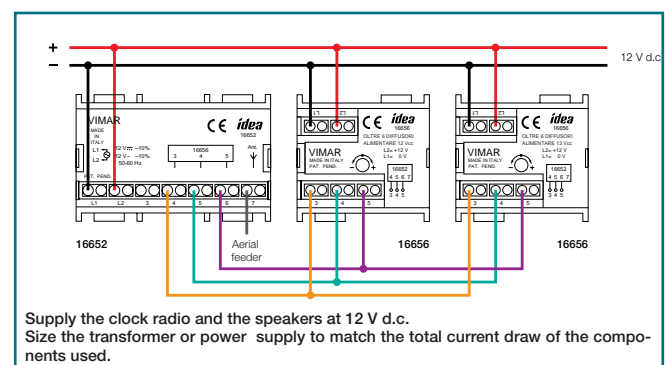
##### Conformity to Standards

EMC Directive  
Standards EN 61000-3-2, EN 61000-3-3, EN 55013, EN 55020

##### Wiring diagram from 1 to 6 amplified speakers



##### Wiring diagram from 6 to 15 amplified speakers



## Regulation and comfort

### Electronic alarm clocks

Grey	White	
16574	.B	Electronic alarm clock, supply voltage 110-230 V~ 50-60 Hz - 3 modules

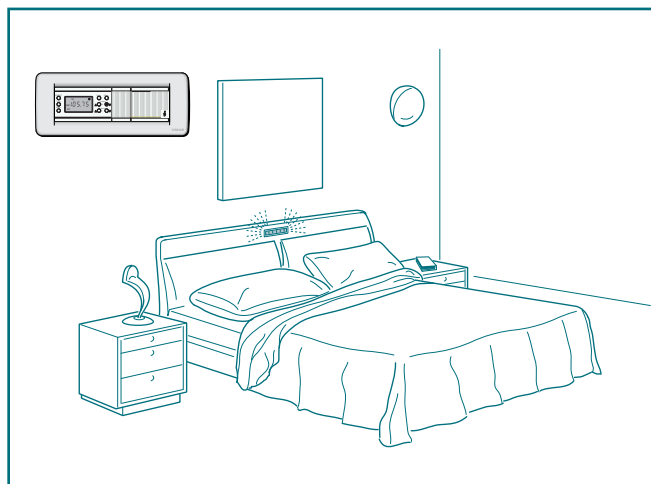


### Electronic clock radios

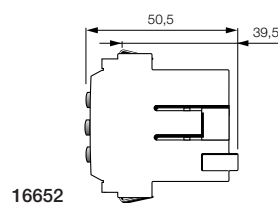
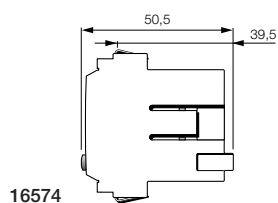
Grey	White	
16652	.B	Electronic clock radio, backlit liquid crystal display supply voltage 12 V~ 50-60 Hz or 12 V d.c. (SELV) - 3 modules
16656	.B	Amplified speaker for clock radio - 2 modules



### 16652 - Example of use



### Dimensions (mm) Side views show the overall dimensions and the flush depth



## Stereophonic sound system

### Technical characteristics

The Idea stereophonic sound system allows the diffusion of the sound signal to up to 10 local control units 16671 controlling up to 10 amplified speakers 16681 each.

The system allows to listen to audio programs coming from an external audio source (see "Technical specifications" for stereophonic central unit 16661, page 114).

It is also provided with an intercommunication system (integrated in the local control units 16671) to send messages to all the equipped rooms with priority to the diffused program.

The system is formed by:

- 16695 230 V~ 50-60 Hz power supply, output voltage 24 V d.c.
- 16661 central control unit
- 16671 local control unit for amplified speaker 16681
- 16681 amplified speaker, 5 W rms

A typical layout of the system is represented in the figure below.

### Installation

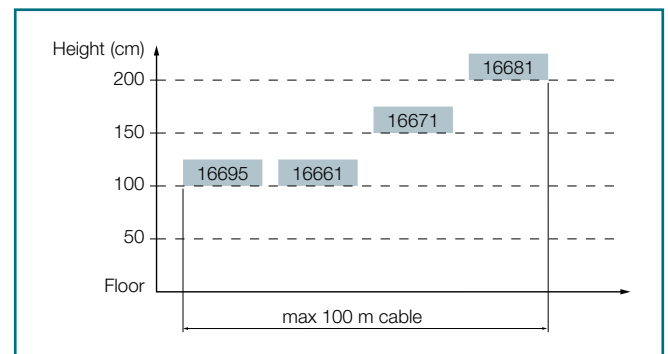
The equipments forming the sound system can be mounted as follows:

- 16661 and 16671 on rectangular flush mounting, or 3-module surface mounting boxes, or on table mounting boxes
- 16681 and 16695 on flush mounting boxes 16895, or on surface mounting boxes 16894.

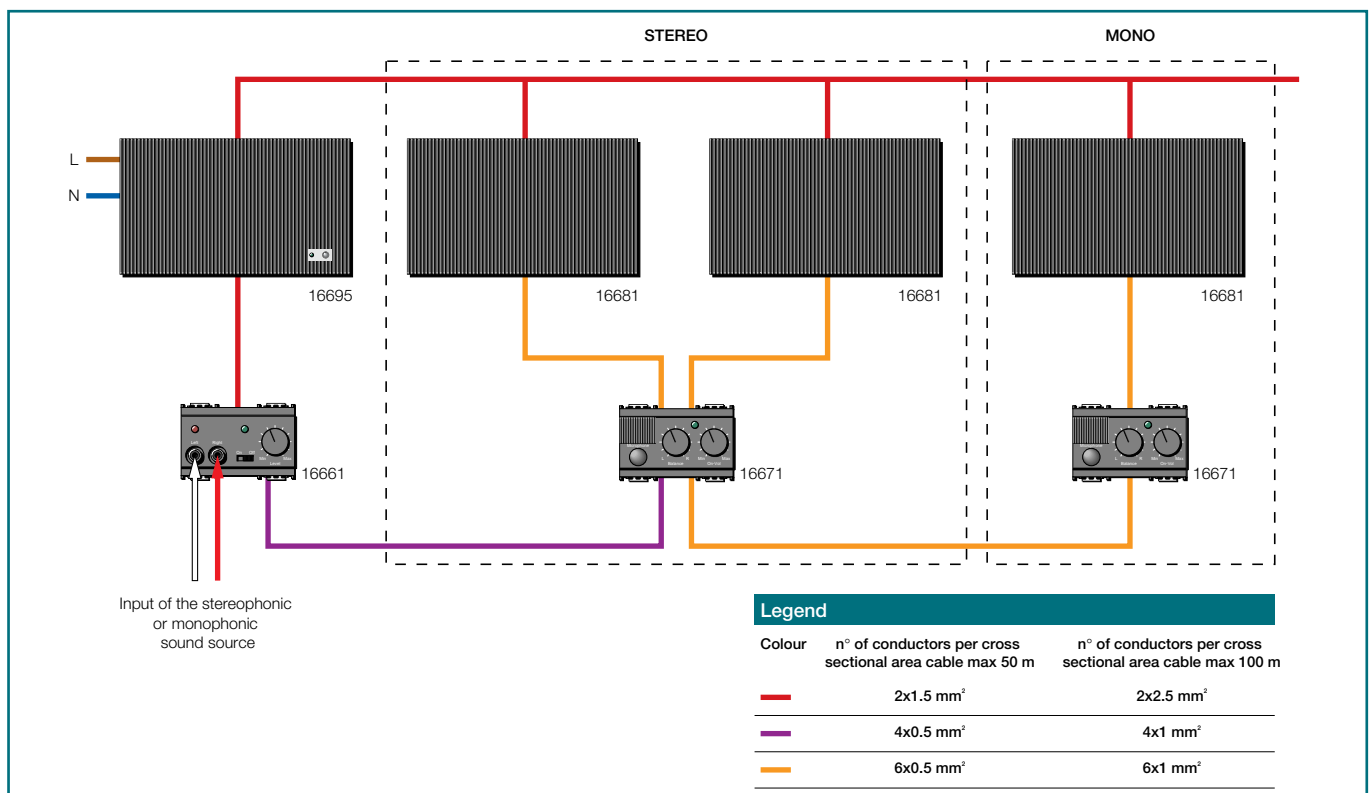
The cross sectional area of the conductors depends on the sound signal and on the length of the connections (no longer than 100 m):

- connection up to 50 m
  - cross sectional area of the conductors for electric supply: 1,5 mm<sup>2</sup>
  - cross sectional area of the conductors for sound signals: 0,5 mm<sup>2</sup>
- connections from 50 m to 100 m:
  - cross sectional area of the conductors for electric supply: 2,5 mm<sup>2</sup>
  - cross sectional area of the conductors for sound signals: 1 mm<sup>2</sup>

The following figure shows the suggested heights of installation.

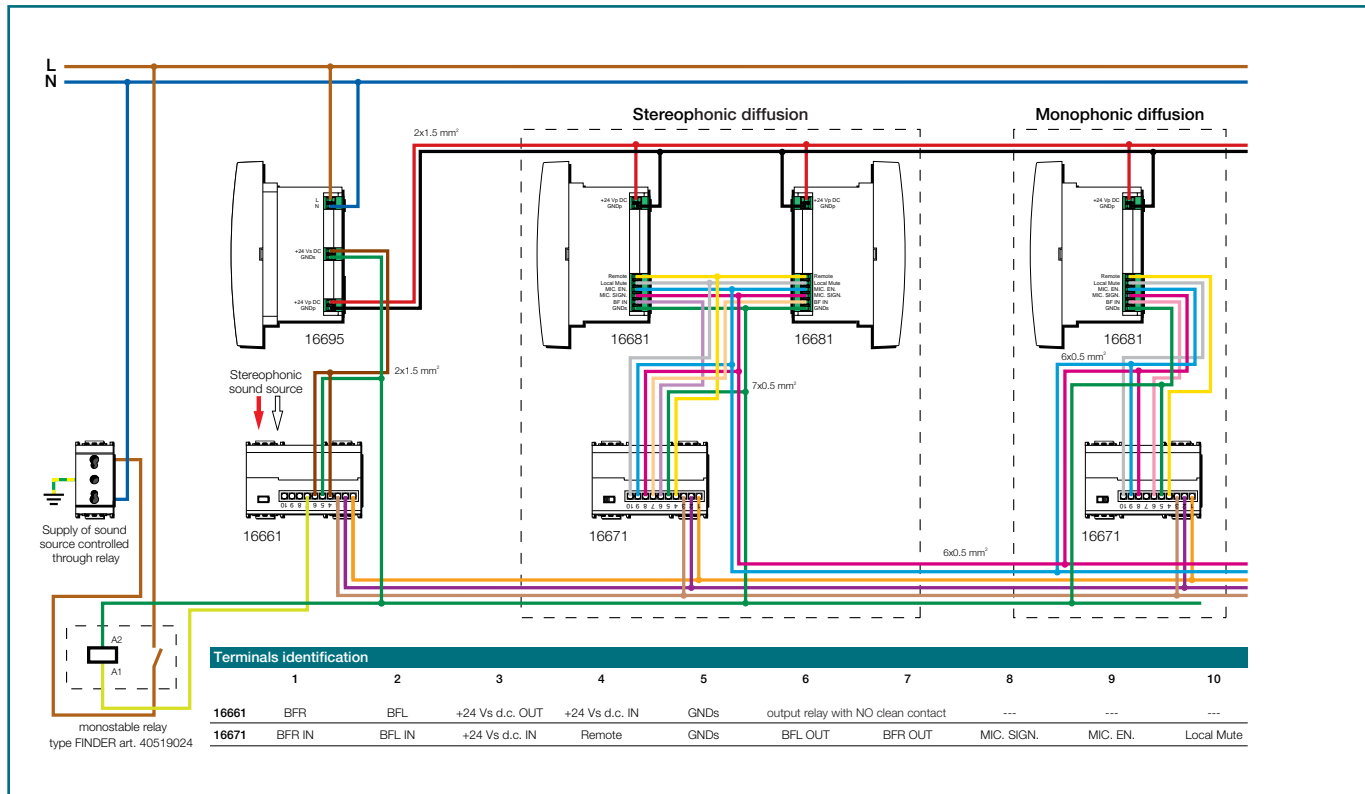


### Typical layout of the system

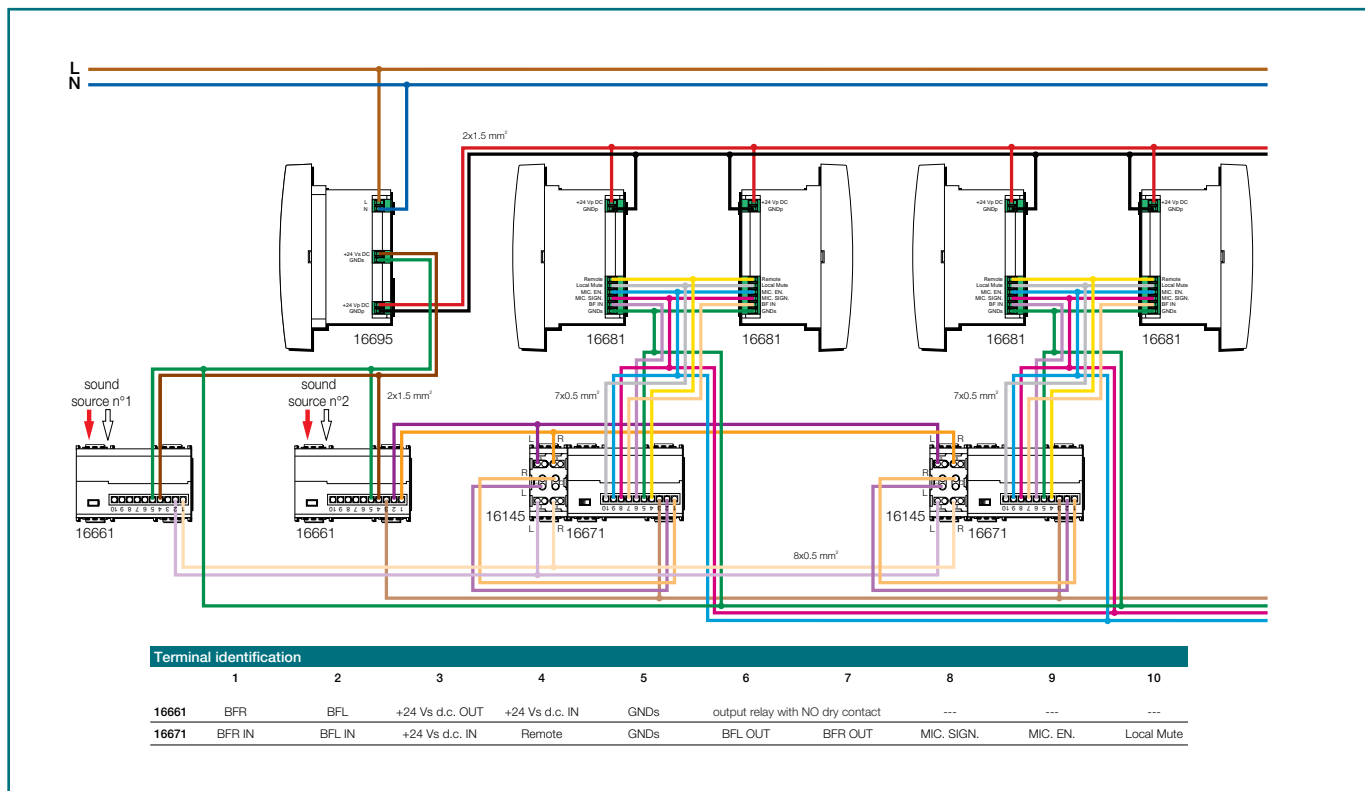


# Stereophonic sound system

Switching on and off of the sound source through local control units 16671



Layout of stereophonic sound system with two sound sources selectable through switches 16145 connected to local control units 16671



# Stereophonic sound system

## Technical characteristics

### Stereophonic central unit 16661

The stereo central unit receives, through two RCA inputs, the signal coming from external stereophonic or monophonic sound sources. The level of the input signal can vary from 60 mV to 1 V and comes from either the preamplified inputs or the headphones inputs.

A **On-Off** slide switch on the front of the equipment switches on and off the central stereophonic unit; the switching on is signalled by a green LED.

The input sensitivity can be adjusted through a rotary dimmer (**Level**) located on the front of the equipment; when the signal peak is reached it is signalled by a red LED.

The equipment is provided with an output relay clean contact driving a monostable relay which allows to switch on and off the external sound source acting on one single local control unit 16671: the external sound source switches on and off when one single local control unit is switched on, and switches off when local control units have been all switched off.

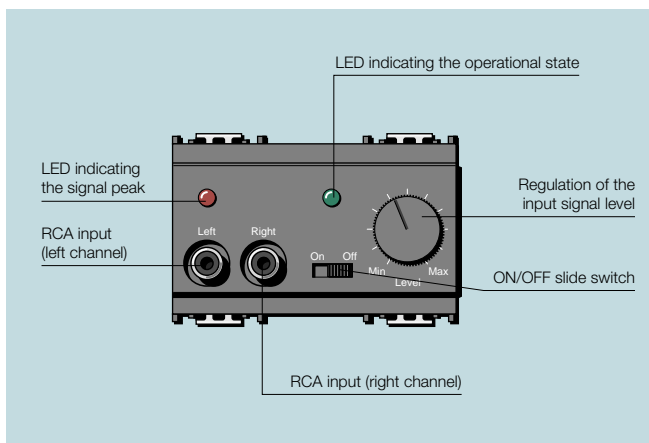
The central stereo unit allows to diffuse the audio signal to up to 10 local control units.

### Technical specifications

- supply voltage: 24 V d.c.
- absorption: 30 mA with max signal
- bandwidth: 50-16000 Hz
- signal/noise ratio: +55 dB
- total harmonic distortion: < 0,3%
- degree of protection: IP30
- ambient operating temperature: 0 °C to +40 °C
- polycarbonate, self-extinguishing enclosure

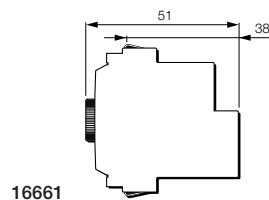
### Conformity to Standards

EMC Directive  
Standards EN 50081-1, EN 50082-1



### Dimensions (mm)

Side views show the overall dimensions and the flush depth



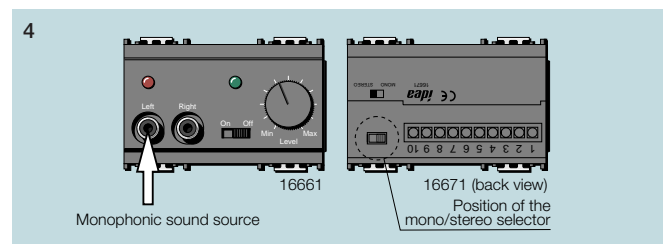
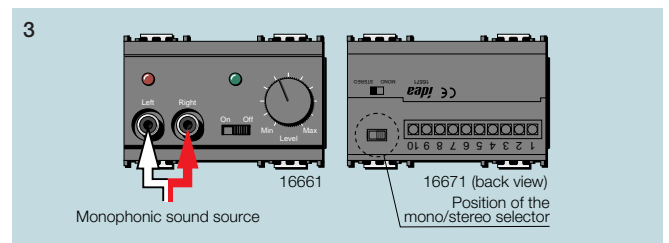
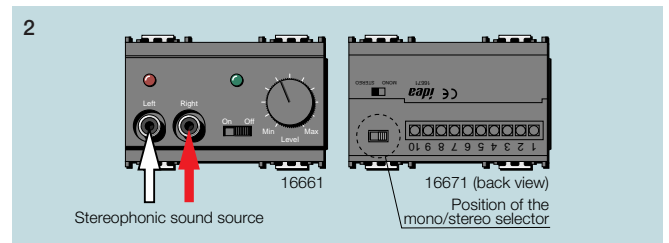
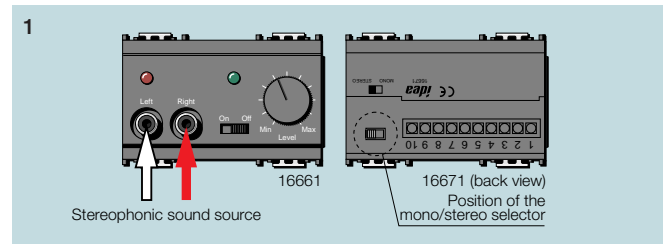
### Operation

Connect the external sound source to the stereo central unit 16661 using a shielded cable with two RCA plugs at one end (for the connection to the stereo central unit) and a plug for the connection to the input of the external sound source at the other.

- It is possible to use one of the following sound sources:
- tuner
  - CD player (preamplified input)
  - cassette recorder (preamplified input)
  - Hi-Fi installation (preamplified or headphones input)
  - portable radio (headphones input)

### Connection between 16661 and external sound source

	Sound source		Sound system	
	Stereo	Mono	Stereo	Mono
Figure 1	●		●	
Figure 2	●			●
Figure 3		●		●
Figure 4		●		●



# Stereophonic sound system

## Central units

Grey	White	
16661	.B	Stereophonic central unit, supply voltage 24 V d.c. - 3 modules



## Local units

Grey	White	
16671	.B	Local control unit for amplified speakers 16681, supply voltage 24 V d.c. - 3 modules



### Local control unit 16671

The local control unit receives the signal from the stereophonic central unit 16661 and diffuses it to the amplified speakers 16681. With the "MONO/STEREO" selector on the back of the equipment it is possible, at the moment of the installation, to set the system either for a stereophonic or monophonic configuration. On the front of the equipment there are:

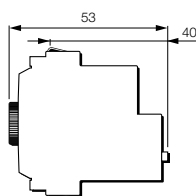
- a rotary dimmer (**On-Vol**) for the switching on and off of the equipment, and for the volume adjustment
- a **Balance** dimmer for the sound balance of the amplified speakers, in case of stereophonic diffusion
- the push button and the microphone for message paging to all the rooms (even when the local units are switched off), with priority over the radio programme

### Conformity to Standards

EMC Directive  
Standards EN 50081-1, EN 50082-1

### Dimensions (mm)

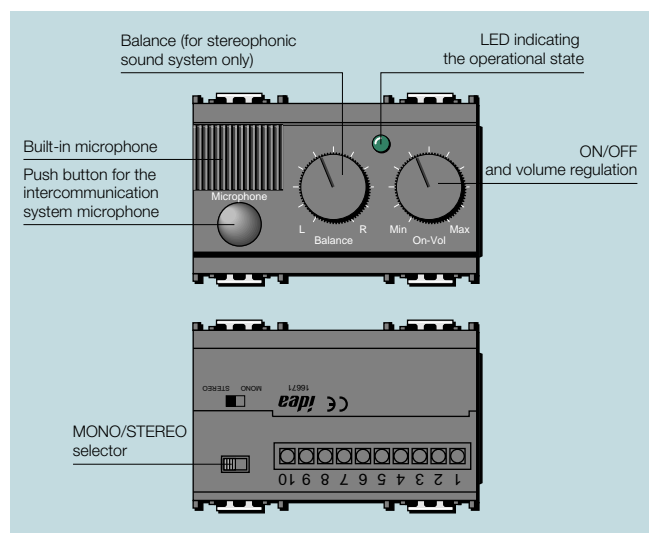
Side views show the overall dimensions and the flush depth



16671

### Technical specifications

- supply voltage: 24 V d.c.
- absorption:
  - 17 mA with audio signal
  - 26 mA with activated microphone
- bandwidth: 50-16000 Hz
- signal/noise ratio: +55 dB
- total harmonic distortion: < 0,23%
- degree of protection: IP40
- operating temperature: da 0 °C to +40 °C
- polycarbonate, self-extinguishing enclosure





## Stereophonic sound system

### Technical characteristics

#### Amplified speaker 16681

The speaker is formed by an amplifier 5 W rms and a biconical speaker  $\varnothing$  100 mm.

Two side trimmers (see figure overleaf) allow the level regulation of the diffused program and of the intercommunication signal: at the moment of the installation, it is possible to choose whether to have louder the level of the intercommunication signal (useful for instance in a hotel) or that of the audio program (for instance at home).

#### Technical specifications

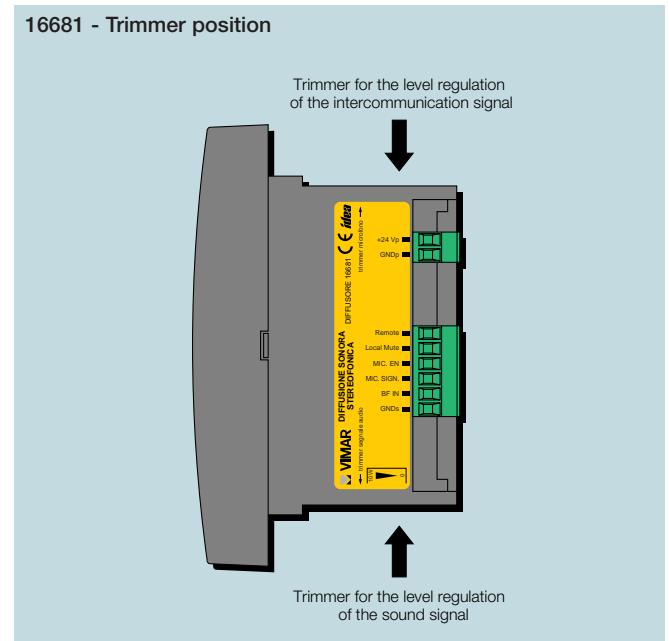
- supply voltage 24 V d.c.
- bandwidth: 50-16000 Hz
- signal/noise ratio: +60 dB
- sound power of the amplifier: 5 W rms
- biconical speaker:  $\varnothing$  100 mm
- trimmer regulating the level of the audio signal
- trimmer regulating the max signal of the intercommunication system
- protection degree: IP40
- ambient operating temperature: 0 °C to +40 °C
- shockproof technopolymer enclosure
- dimensions: 248x146x86 mm
- For the following types of mounting:
  - flush mounting on mounting box 16895
  - surface mounting on mounting box 16894
  - surface mounting, with possibility of orientation on mounting box 16894 with kit 16894.K

#### Conformity to Standards

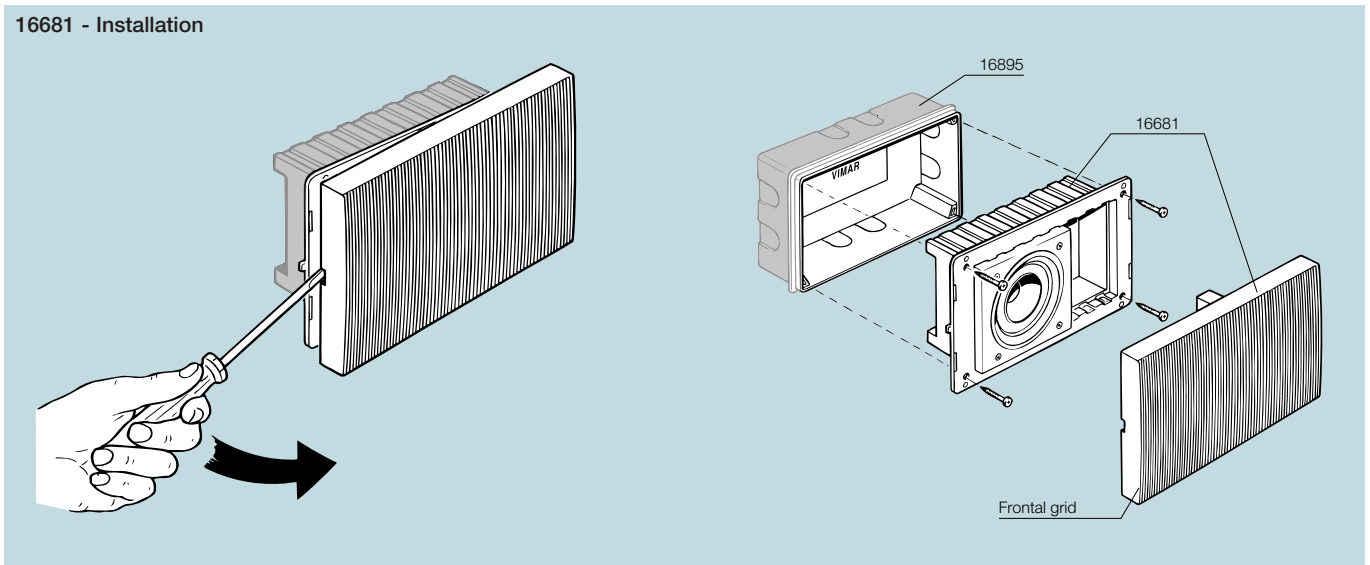
EMC Directive

Standards EN 50081-1, EN 50082-1

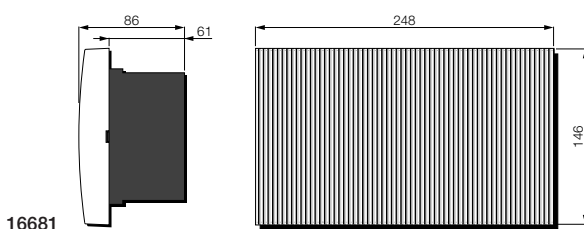
#### 16681 - Trimmer position



#### 16681 - Installation



#### Dimensions (mm) Side views show the overall dimensions and the flush depth



# Stereophonic sound system

## Amplified speakers

Grey	White	
16681	.B	Amplified speaker 5 W rms, supply voltage 24 V d.c.



## Power supply

Grey	White	
16695	.B	Power supply 230 V~ 50-60 Hz, output voltage 24 V d.c. (SELV)



## Power supply 16695

The equipment, which is supplied at 230 V~, has a safety voltage (SELV) of 24 V d.c. which allows the supply of each component of the system.

It allows the supply of up to 10 amplified speakers.

It is supplied with two fuses, one for the fuse protection, the other for the supply protection Vp (+24 V d.c.), which are located as shown on the figure overleaf.

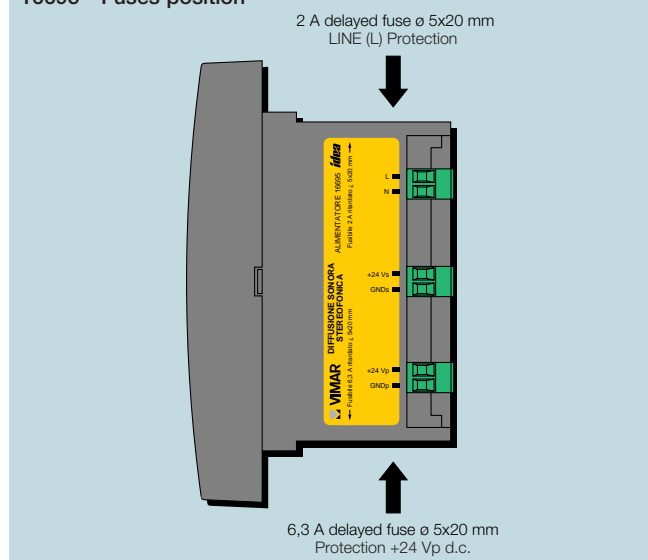
## Technical characteristics

- input voltage: 230 V~ 50-60 Hz
- output voltage: 0-24 V d.c.
- power: 120 VA
- 2 A delayed fuse  $\varnothing$  5x20 mm (LINE protection)
- 6,3 A delayed fuse  $\varnothing$  5x20 mm (protection +24 Vp d.c.)
- max absorption: 1 A
- protection degree: IP40
- ambient operating temperature: from 0 °C to +40 °C
- shockproof, technopolymer enclosure
- dimensions: 248x146x86 mm
- For the following types of mounting:
  - flush mounting on mounting box 16895
  - surface mounting on mounting box 16894

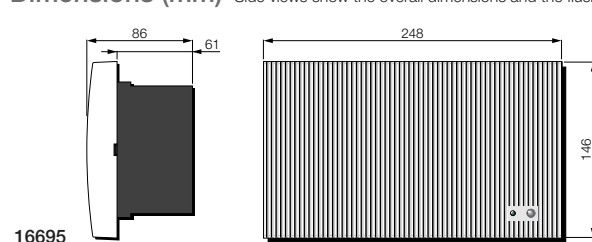
## Conformity to Standards

LV Directive  
 Standard EN 60065  
 EMC Directive  
 Standards EN 50081-1, EN 50082-1

## 16695 - Fuses position



## Dimensions (mm)



# Stereophonic sound system

## Technical characteristics

Flush mounting box 16895

Conformity to Standards

LV Directive

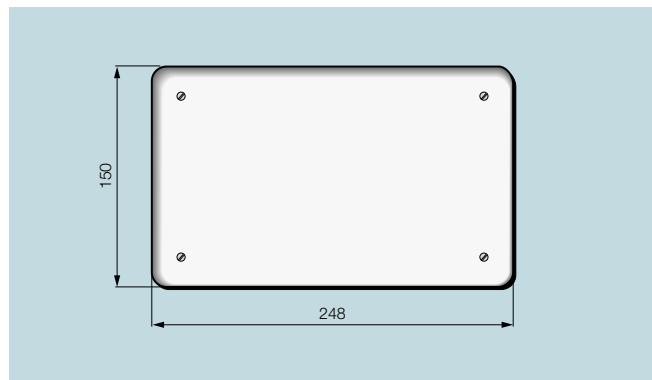
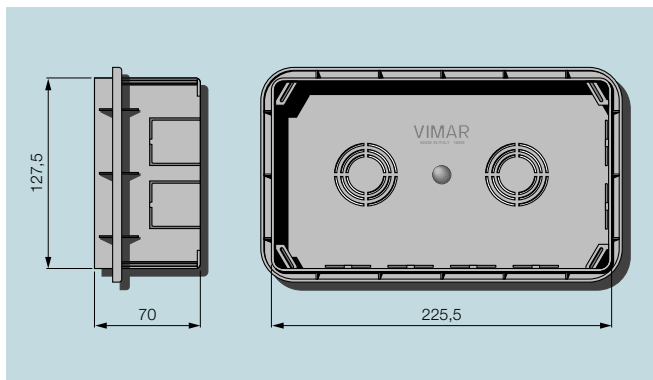
Standard CEI 23-48 (IEC 60670)

Cover 16895.C for mounting box 16895

Conformity to Standards

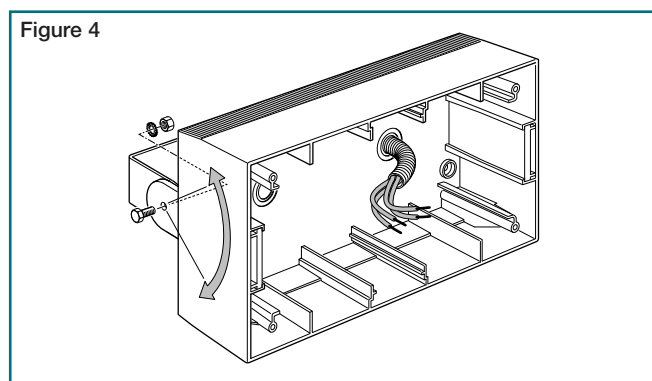
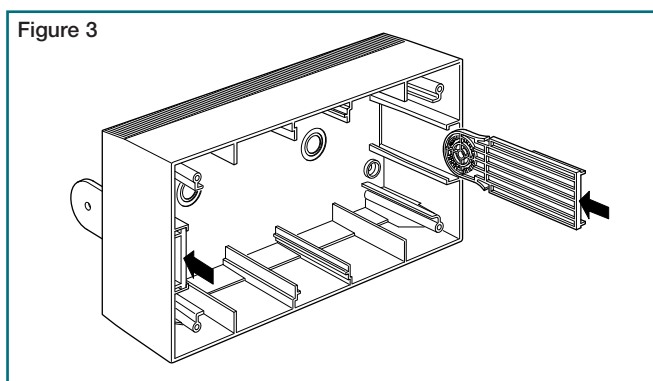
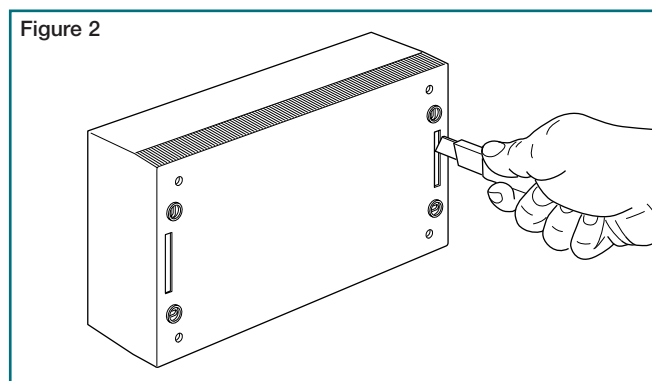
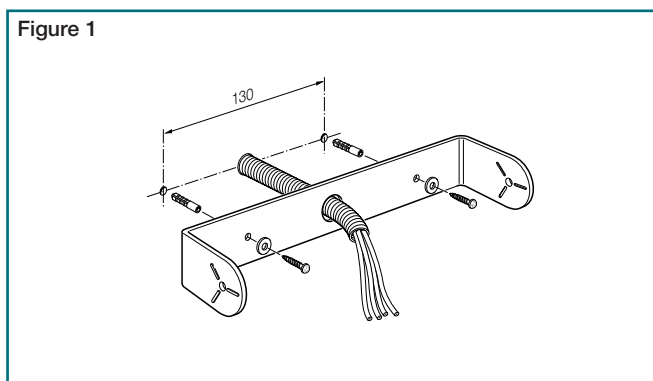
LV Directive

Standard CEI 23-48 (IEC 60670)



Surface mounting 16894

Installation of the kit 16894.K



## Stereophonic sound system

### Flush mounting box for sound system

<b>16895</b>	Flush mounting box for 16695 and 16681, light blue. Dimensions: 225,5x127,5x70 mm
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16895



### Accessories for flush mounting box 16895

<b>16895.C</b>	Cover for flush mounting box 16895, white
<b>16895.A</b>	Plasticized cardboard antimortar cover for flush mounting box 16895

16895.C



### Surface mounting box for sound system

Grey	White
<b>16894</b>	<b>.B</b> Surface mounting box for 16695 and 16681. Dimensions: 248x146x74,5 mm

16894



### Accessories for surface mounting box 16894

<b>16894.K</b>	<b>.B</b> Orientation kit for mounting box 16894
----------------	--

16894.K



## Access control system

### Technical characteristics

#### Admittance request system

##### Scope

The external ringing unit and the internal reply unit forming the admittance request system allow the access control to restricted environments (i.e. executive offices, surgeries, etc.)

##### Technical specifications

- supply voltage: 12 V~  $\pm 10\%$  50-60 Hz or 12 V d.c.  $\pm 10\%$  (SELV). The terminals for the supply are located on the reply unit; the ringing unit is supplied through the connections with the reply unit
- max absorption: 300 mA with activated optical and acoustic signals

##### Conformity to Standards

EMC Directive

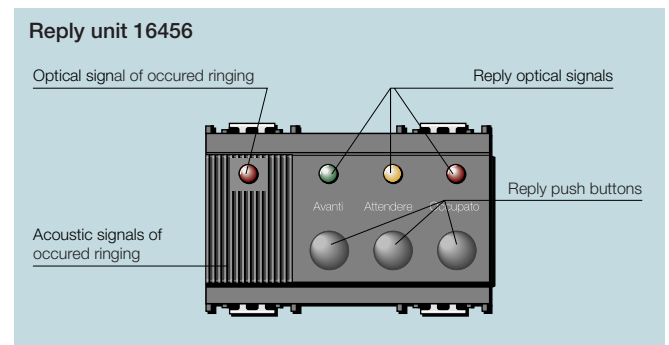
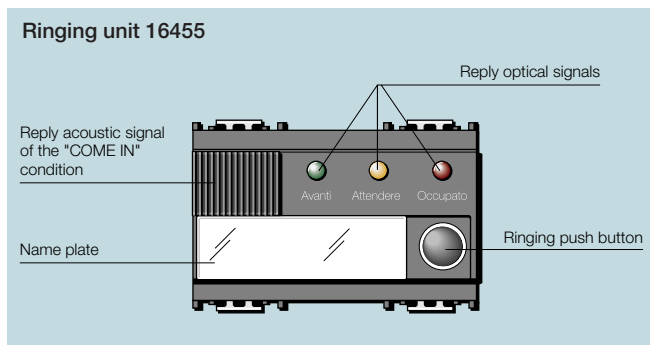
Standards EN 50081-1, EN 50082-1

##### Installation

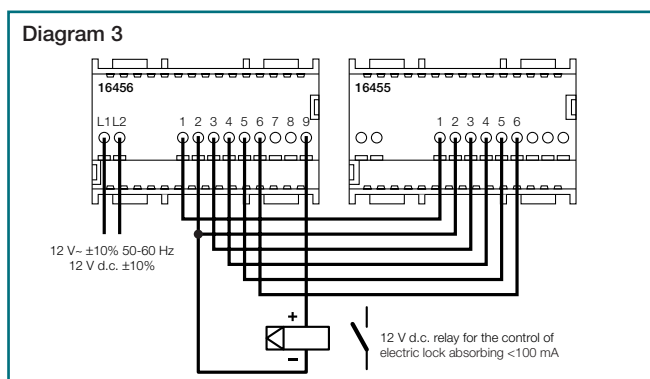
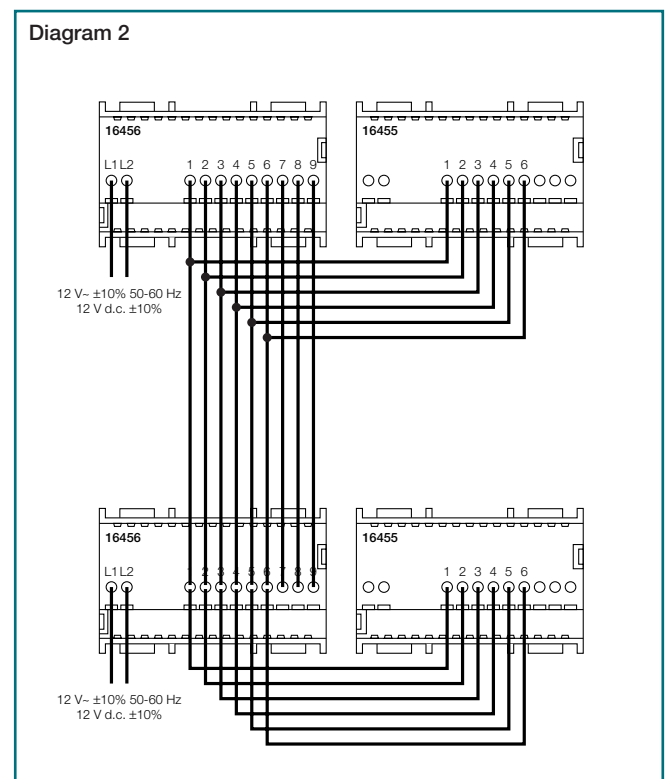
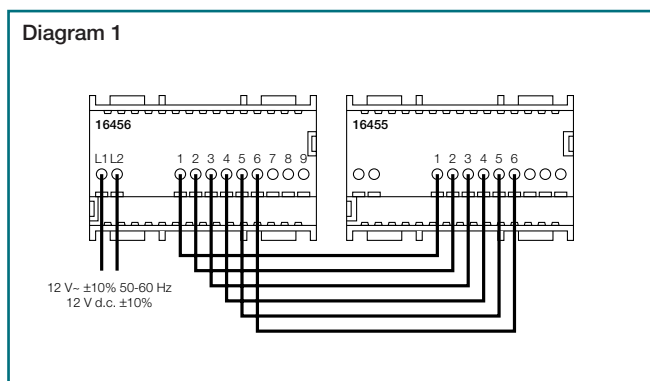
- to be supplied through safety isolating transformer
- for the wiring, use conduits segregated from the 230 V~ mains
- it can be mounted on table, slanting mounting boxes 16803 and 16806

##### Wirings

- wirings: use supply conductors with cross sectional area  $\geq 0.5$  mm<sup>2</sup>; it is possible to connect up to 2 external ringing units and 2 internal reply units (4 equipments max) operating simultaneously
- diagram 1: connection of one ringing unit and one reply unit
- diagram 2: connection of two ringing units and two reply units
- diagram 3: connection of one ringing unit and one reply unit with control on an electric lock



### Wiring diagrams



# Access control system

## Admittance request system

Grey	White
16455	.B External electronic ringing unit - 3 modules

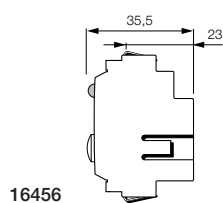
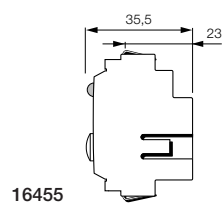


16456	.B Internal electronic reply unit, supply voltage 12 V~ 50-60 Hz or 12 V d.c. (SELV) - 3 modules
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## Dimensions (mm)

Side views show the overall dimensions and the flush depth



## Access control system

### Scope

The product range makes it possible to implement systems for device and access control in the residential, services and hotel sectors that are secure, reliable and versatile.

The system offers a variety of technical solutions of varying degrees of complexity, so as to provide the most appropriate solution for every requirement.

### Access control with smart card reader/programmer with integrated relay

The basic solution is the simplest. Consisting of a smart card reader/programmer which occupies 3 modules, it also functions as an actuator thanks to the on-board relay. Programming of smart cards and device configuration is accomplished by means of dip switches at the rear of the device. The output relay is activated when a smart card previously stored in memory is recognised. The smart card is an electronic key with 15 distinct memory addresses, in which it can store 15 codes randomly generated at the time of programming, out of a total of 4.29 billion possible combinations. The desired address is selected using the 4 dip switches. This allows the smart card to be associated with 15 separate addresses (and hence as many access points). It is also possible for several readers to share the same address and code, in which case several access points are enabled using a single address. The number of cards that can be associated with each address/access point is unlimited.

The system can be configured to operate either with or without a "master" card. In the latter case, only those in possession of the master card can carry out operations for encoding, duplicating, cancelling or changing the code of the smart cards.

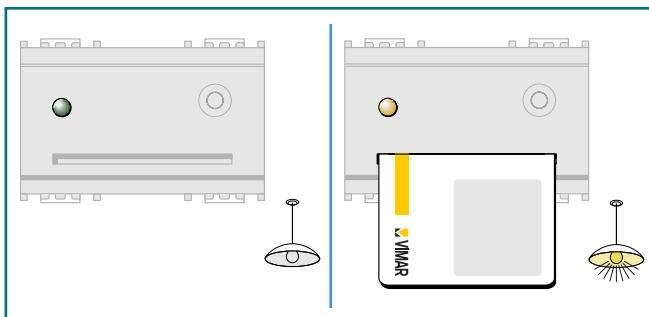
For applications of the reader/programmer in the hotel sector, there are special dip switch combinations that simplify certain functions and facilitate use of the device in those settings.

Another type of device configuration, known as the "smart switch", makes it possible to implement a secure device control system. The output relay remains energised for as long as the previously programmed smart card is left inside the reader/programmer.

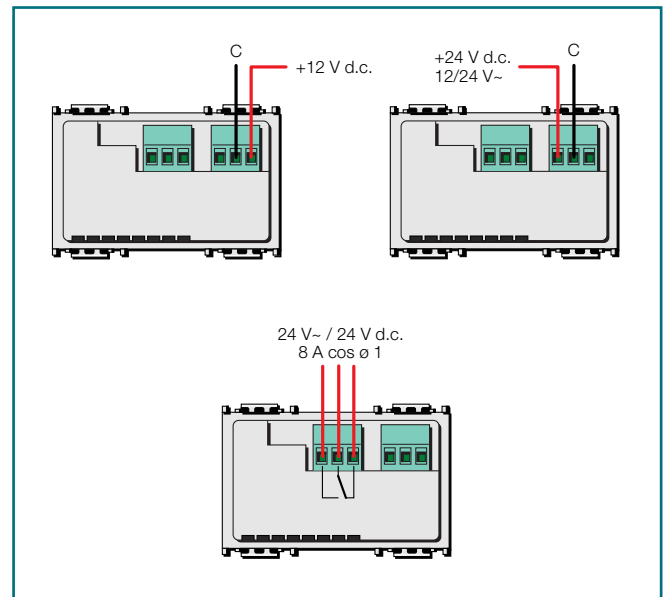
### Device activation

Device activation can also be cost-effectively controlled through use of an electronic badge switch. Insertion of an ISO card into the reader (either the same one, or a different one from that used to access the room) energises the output relay, which is able to drive loads up to 16 A 250 V~.

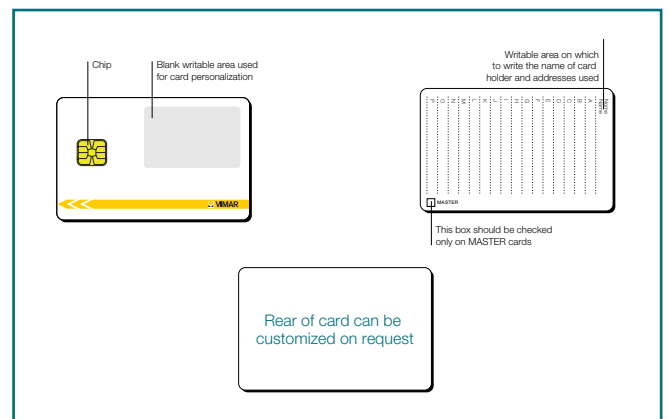
### Badge switch operating with smart card



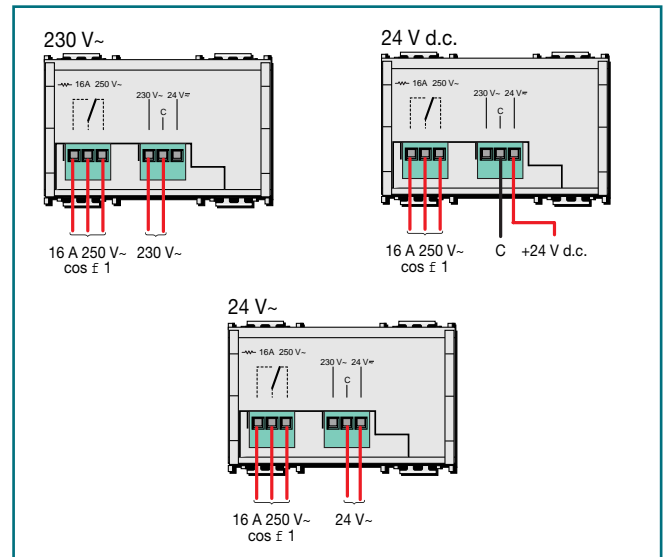
### Reader/programmer connections



### Example of use of smart card

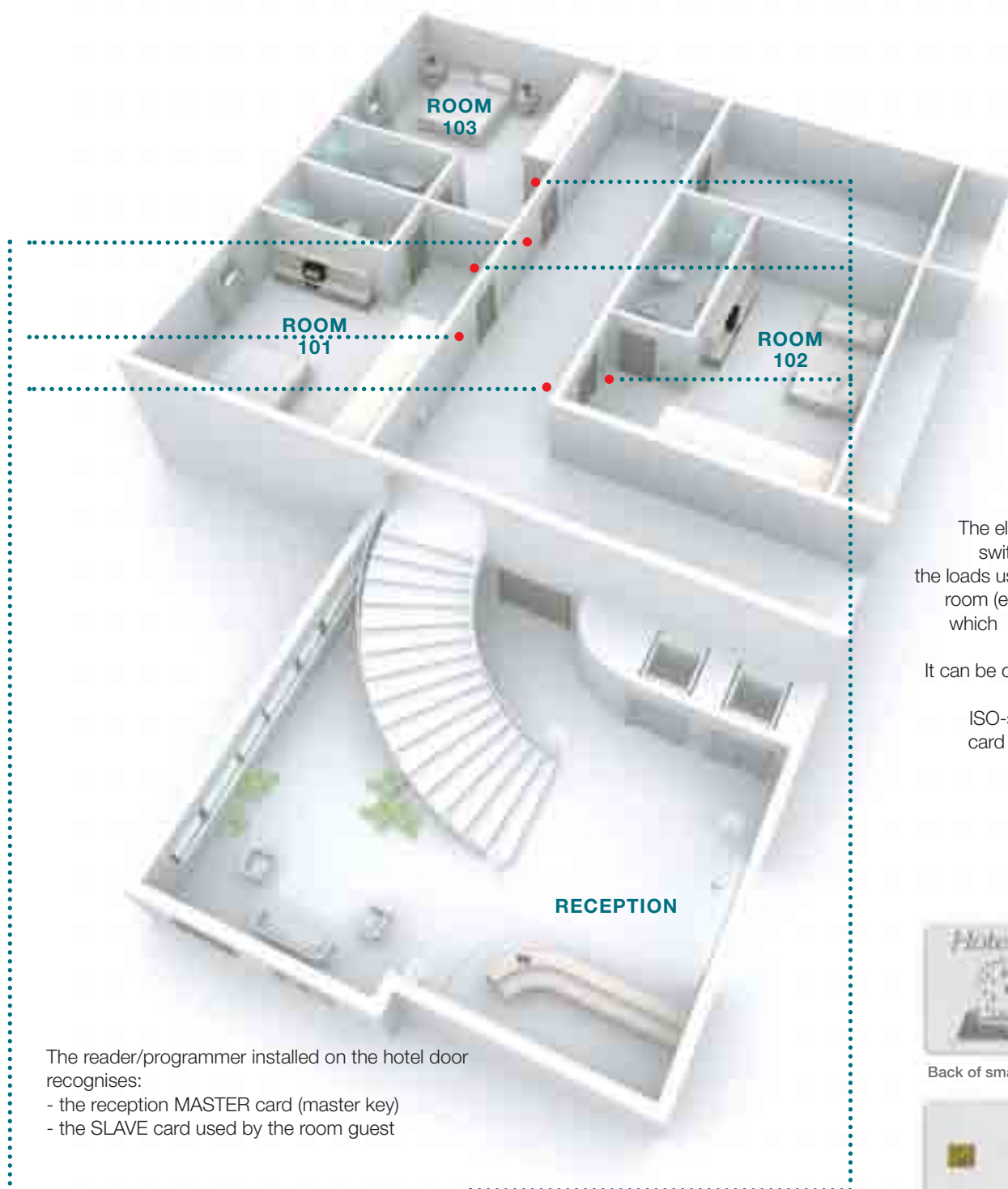


### Badge switch connections



## Access control system

Example of installation:  
hotel with access control system



The electronic badge switch activates all the loads used in the hotel room (except for those which need to remain on at all times). It can be controlled using any type of ISO-standard smart card (e.g.: 16452.S)

The reader/programmer installed on the hotel door recognises:

- the reception MASTER card (master key)
- the SLAVE card used by the room guest



16461 - Reader/programmer



16464 - Badge switch



Back of smart card- room 103



16452.H - Customizable smart card - front side



## Access control system

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### Scope

Suitable for access control in homes, offices, hotel and similar premises.

### Reader/programmer

#### Technical specifications

This operating mode relies on the use of 2 devices.

- The reader/programmer which:
  - handles access control
  - assigns a security code to the selected address and allows it to be copied to the smart cards
  - reads the smart cards and activates the output relay if one is recognised.
- **The smart card is:**
  - able to store 15 different codes in 15 different memory addresses
  - also available in a customisable version

#### Conformity to Standards

EMC Directive

Standards EN 61000-6-1, EN 61000-6-3

#### Operating mode

##### • Standard

- operation with or without master card
- insertion of a recognised card activates the output relay in either pulse (approx. 3 seconds) or latching mode.
- selection of the 15 addresses active

##### • Hotel

- operation with a master card
- insertion of a recognised card activates the output relay in either pulse (approx. 3 seconds) or latching mode.
- address selection function disabled

##### • Electronic switch

- Operation with a master card
- Insertion of a previously enabled card activates the output relay. The relay remains energised either until the card is removed (dip switch 8 OFF) or for an additional 50 seconds after removal of the card (dip 8 ON).

#### Technical specifications

##### 16461 - Reader/programmer

- Unlimited number of memorizable smart card.
- Supply voltage
  - 12 V~ 50-60 Hz
  - 12 V d.c. +10%
  - 24 V~ 50-60 Hz
  - 24 V d.c.
- Absorption:
  - 12 V~ 50-60 Hz: 55 mA
  - 12 V d.c.: 45 mA
  - 24 V~ 50-60 Hz: 80 mA
  - 24 V d.c.: 35 mA
- 24 V a.c./24 V d.c. 8 A cos  $\phi$  1 relay output with change-over contact without potential rating
- Operating temperature: -5 - +45 °C
- Protection degree: IP30
- Size: 2 modules

##### 16452 - Smart card

- Storing of 15 different codes in 15 different memory addresses
- 4.29 billion of combinations
- writable area for the customization

##### Smart card 16452.H

- As 16452, back of the smart card is customizable on request in black colour

## Badge switch

### Scope

Suitable for access control in hotels, offices and similar premises.

#### Conformity to Law

LV Directive

Standard 60065

EMC Directive

Standards EN 61000-6-1, EN 61000-6-3

#### Technical specifications

Insertion of any ISO smart card (e.g. Vimar 16452, 16452.H and 1645.S) activates the output relay; upon removal of the smart card, the relay reverts to its resting state after approximately 50 seconds.

#### Technical specifications

##### 16464 - Electronic badge switch

- Supply voltage
  - 230 V~ 50-60 Hz
  - 24 V~ 50-60 Hz
  - 24 V d.c.
- relay output with change-over contact without potential rating 16 A 250 V~ cos  $\phi$  1
- Frontal led indicating "supplied device" and charge "ON"
- Frontal test push button

# Access control system

## Reader/programmer

Grey	White
<b>16461</b>	<b>.B</b>
Smart card reader/programmer, 8 A 24 V change-over relay output, supply voltage 12/24 V~ 50-60 Hz and 12/24 V d.c. (SELV) - 3 modules. (Supplied without smart card)	



## Badge switches

Grey	White
<b>16464</b>	<b>.B</b>
Electronic badge switch, 16 A 250 V~ change-over relay output, supply voltage 230 V~ 50-60 Hz, 24 V~ 50-60 Hz and 24 V d.c. (SELV) - 3 modules. Supplied without ISO card (badge)	



## Smart cards

<b>16452</b>	Programmable smart card
<b>16452.H</b>	Programmable and customizable smart card
<b>16452.S</b>	ISO card. Back of the smart card is customizable

16452  
(Front side)



16452.S  
(Front side)

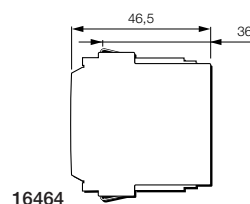
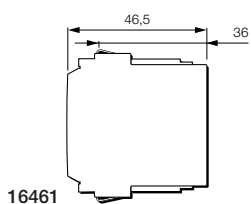


16452.H  
(Customized rear side)



## Dimensions (mm)

Side views show the overall dimensions and the flush depth



## Infrared control system

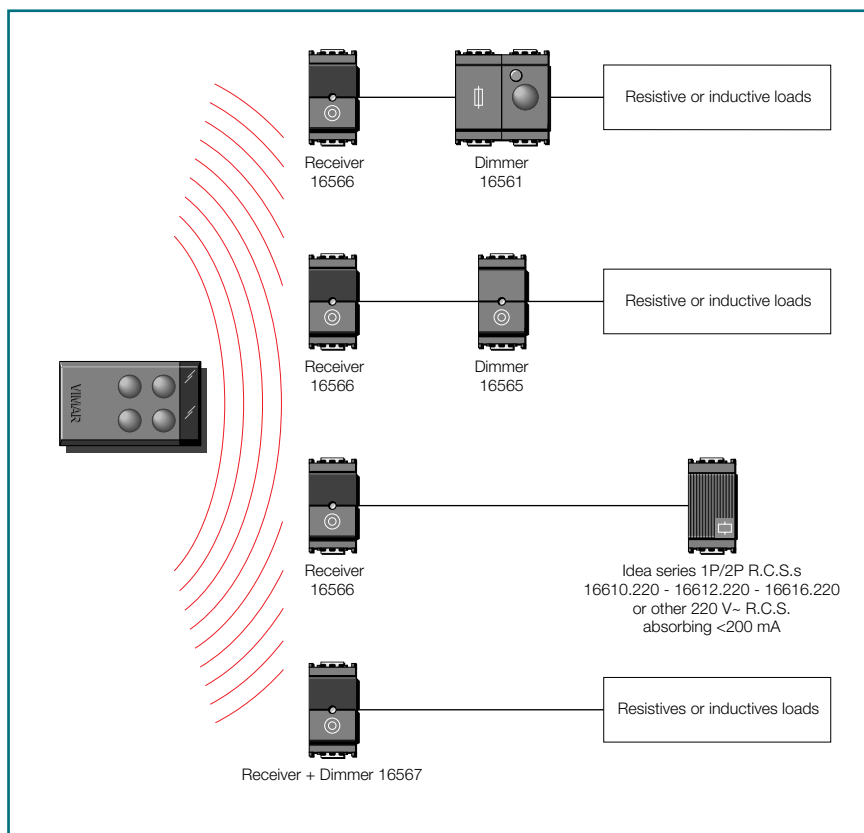
### Technical characteristics

#### Infrared control equipments

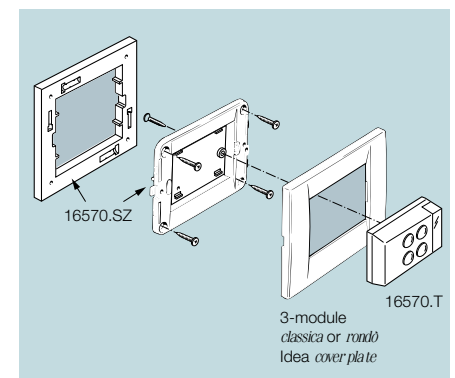
#### Technical specifications for remote control 16570.T

- switching on-and-off and regulation of resistive or inductive loads connected to receiver 16566 and to receiver+dimmer 16567
- switching on or off is obtained through a short pressing on the push button of the remote control, regulation keeping the push button pressed; to invert the regulation, stop and restart pressing on the push button
- supply through 9 V 6LR61 alkaline battery (not supplied)
- surface or flush mounting with mounting frame 16570.SZ
- ambient operating temperature: -5 °C to +40 °C
- operating distance: 10 m
- receivers can be set to be controlled by one of the four channels of the infrared remote control, acting on the built-in dip-switches, according to the coding diagram indicated below.

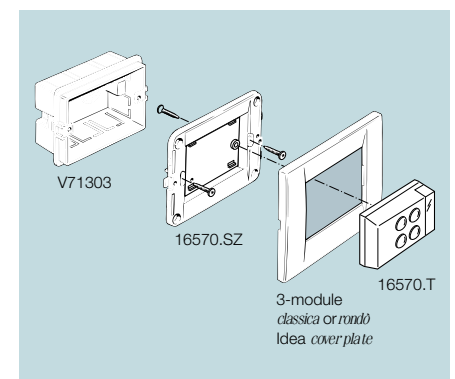
#### Possible uses of the remote control 16570.T



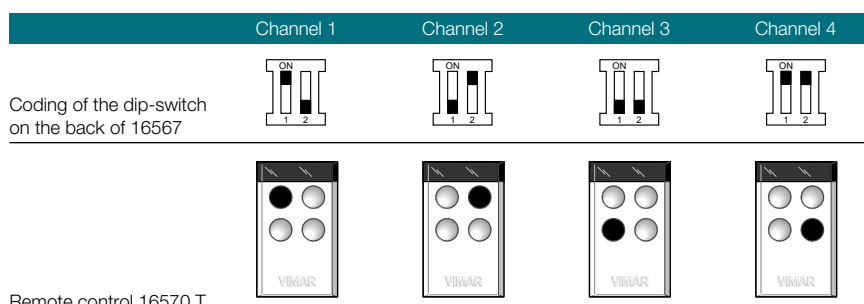
#### Surface mounting



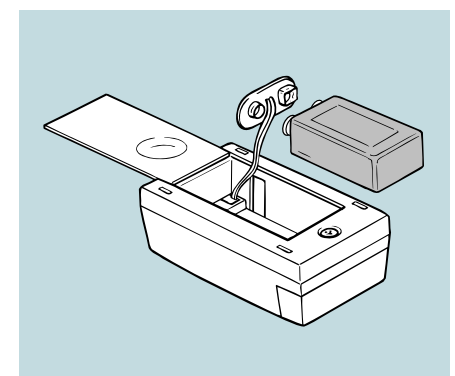
#### Flush mounting



#### Coding of the dip-switch of 16566 and 16567 for use with remote control 16570.T



#### Battery replacement



## Infrared control system

### Infrared control equipments

Grey	White
16570.T	.B

4-channel portable infrared remote control for receiver 16566 and for receiver+dimmer 16567, operating distance 10 m.  
For surface mounting use 16570.SZ

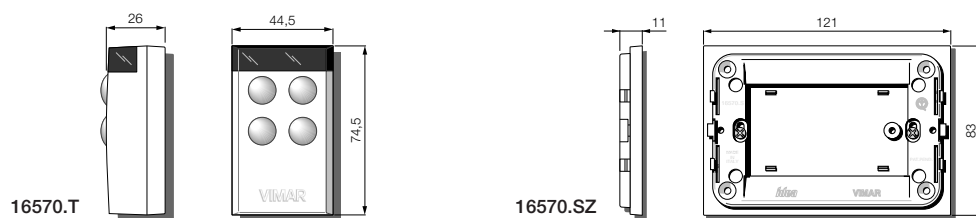


16570.SZ	.B
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Special mounting frame and spacing base for surface mounting of remote control 16570.T.  
No need mounting box; but it can be mounted on 3-module flush or surface mounting boxes



### Dimensions (mm)



## Infrared control systems

### Technical characteristics

#### Receiver + dimmer 16567

##### Controllable inductive loads

- control of electronic transformers 16550.60 and 16550.105

##### Technical specifications

- Soft start: it guarantees a gradual transition from the off state to max brightness, thus increasing the normal life of the lamp, as the stress on the bulb filament during switching on from the cold state is reduced; dazzling effect is also avoided

##### Conformity to Standards

LV Directive

EMC Directive

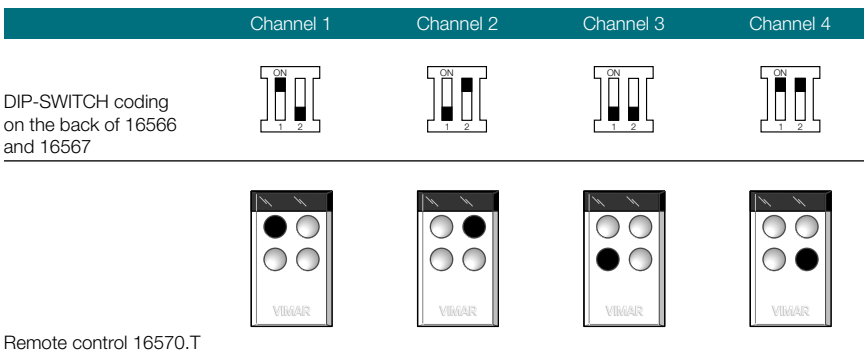
Standards EN 60669-2-1

#### Receiver 16566

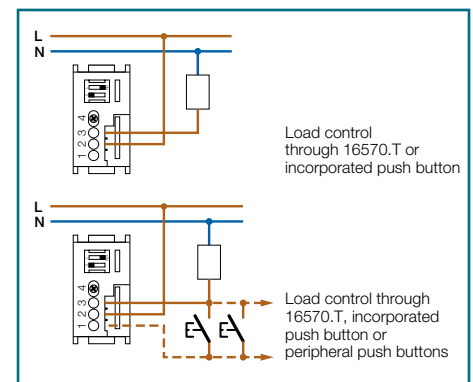
##### Technical specifications

- control of dimmers 16561 and 16565, Idea R.C.S.s 16610.220, 16612.220, 16616.220 or any other R.C.S. absorbing less than 200 mA, through remote control 16570.T or built-in push button
- if connected to R.C.S., it must be used with 275 V electromagnetic interference suppression filter:
  - class: X2
  - capacity: 0,25  $\mu$ F
  - resistance: 470  $\Omega$

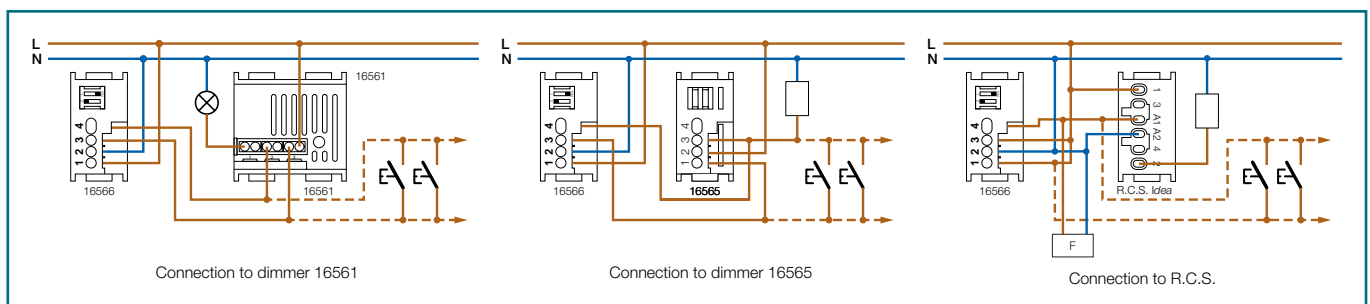
### Dip-switch coding of 16566 and 16567 for use with remote control 16570.T



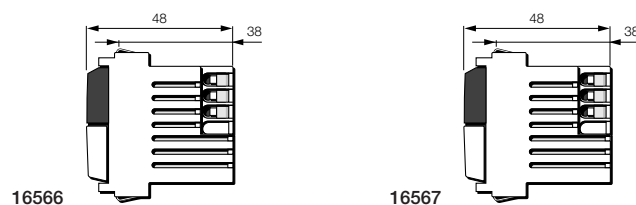
### Wiring diagrams for 16567



### Wiring diagrams for 16566



### Dimensions (mm) Side views show the overall dimensions and the flush depth



## Infrared control systems

### Infrared control equipments (continued)

Grey	White
16566	.B

Electronic infrared receiver with 4-channel dip-switch and incorporated push button, supply voltage 230 V~

16566



16566.B



16567	.B
-------	----

Dimmer 230 V~ 50 Hz, with infrared receiver and 4-channel dip-switch, for:  
 25-300 W incandescent lamps  
 25-300 VA dedicated electronic transformers  
 control and regulation by incorporated push button or NO peripheral push buttons or built-in remote control 16570.T  
 IGBT technology, visible in darkness

16567



16567.B



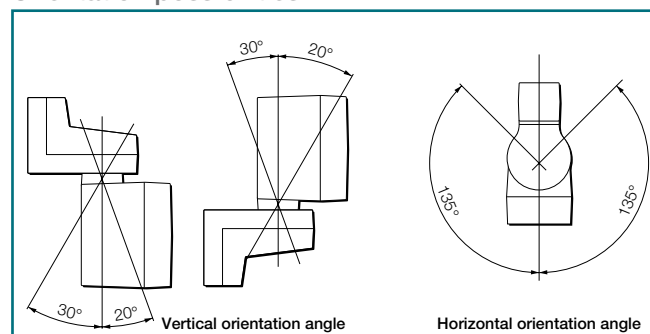
## Accessories

### Technical characteristics

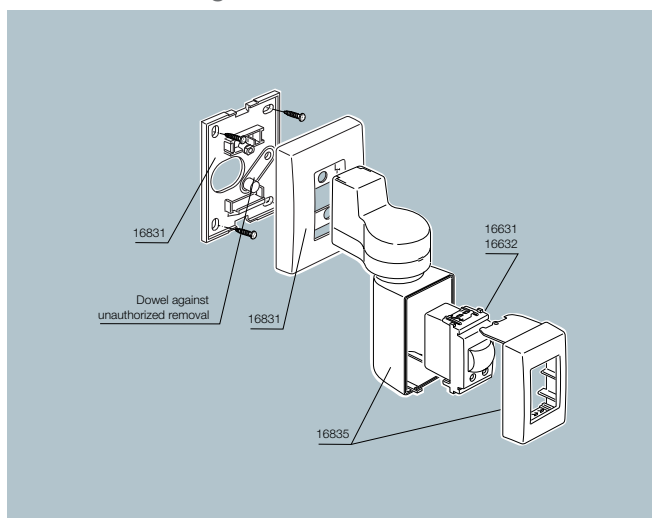
#### 16835 - 16836 Orientable supports

- suitable for 1 or 2-module equipment, allow either the flush mounting on 3-module rectangular mounting boxes or on  $\varnothing$  60 mm round mounting boxes (with adaptor 16830) or on the surface mounting (with 16831 and 16831.B) of passive infrared presence detector for burglar alarm system 16620 or of the automatic lighting switches with IR motion sensor 16631 and 16632
- in burglar alarm systems it guarantees the protection against unauthorized removal (if used together with the kit of tamperproof devices 16897.S)
- orientation possibilities as shown overleaf

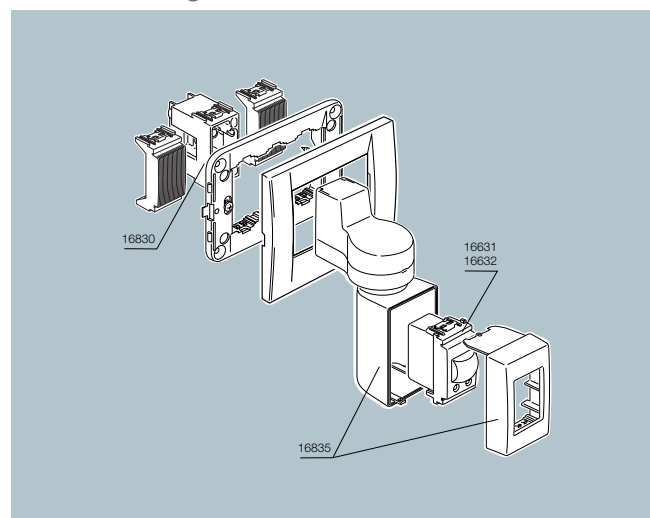
#### Orientation possibilities



#### Surface mounting with 16831



#### Flush mounting with 16830



## Accessories

### Accessories for 2-wire intrusion detection alarm system (continued)

Grey	White	
16835	.B	Orientable support for the installation of 1-module Idea equipments

16835



16835.B



16836	.B	Orientable support for the installation of 2-module Idea equipments
-------	----	---

16836



16836.B



16831	.B	Frame for the surface mounting of the orientable supports 16835 and 16836
-------	----	---

16831



16831.B



16830		Adaptor for flush mounting of orientable supports 16835 and 16836 on Idea mounting frames
-------	--	---

16830



16897.S		Kit of tamperproof devices for orientable supports 16835 and 16836
---------	--	--

16897.S





## Switches



17000  
17001



17001.G



17000.B  
17001.B



17001.G.B

### 1P 1-way switches 250 V~



Grey	White	
17000	.B	1P 10 AX 250 V~ 1-way switch
17001	.B	1P 16 AX 250 V~ 1-way switch
17001.G	.B	1P 16 AX 250 V~ 1-way switch - 2 reduced modules

Technical characteristics, page 16



17001.F



17001.L



17001.F.B



17001.L.B

17001.F	.B	1P 16 AX 250 V~ 1-way switch, with luminescent indicator
17001.L	.B	1P 16 AX 250 V~ 1-way switch, luminous, for signalling unit. Signalling unit is not provided

Technical characteristics, page 16



17007



17007.B

### 2P 1-way switches 250 V~



Grey	White	
17007	.B	2P 16 AX 250 V~ 1-way switch

Technical characteristics, page 18



17002  
17003



17003.G



17002.B  
17003.B



17003.G.B

### 1P 2-way switches 250 V~



Grey	White	
17002	.B	1P 10 AX 250 V~ 2-way switch
17003	.B	1P 16 AX 250 V~ 2-way switch
17003.G	.B	1P 16 AX 250 V~ 2-way switch - 2 reduced modules

Technical characteristics, page 18

## 1P 2-way switches 250 V~ (continued)



Grey	White	
17003.F	.B	1P 16 AX 250 V~ 2-way switch with luminescent indicator
17003.L	.B	1P 16 AX 250 V~ 2-way switch, luminous, for signalling unit. Signalling unit is not provided

Technical characteristics, page 18

17003.F



17003.L



17003.F.B



17003.L.B



## 1P reversing switches 250 V~



Grey	White	
17005	.B	1P 16 AX 250 V~ reversing switch

Technical characteristics, page 20

17005



17005.B



## 1P NO push buttons



Grey	White	
17010	.B	1P 10 A NO 250 V~ push button, general symbol
17010.G	.B	1P 10 A NO 250 V~ push button, general symbol - 2 reduced modules

Technical characteristics, page 20

17010



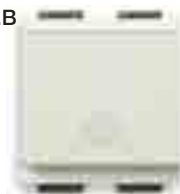
17010.G



17010.B



17010.G.B



17010.F	.B	1P 10 A NO 250 V~ push button, general symbol, with luminescent indicator
17010.L	.B	1P 10 A NO 250 V~, luminous, for signalling unit. Signalling unit is not provided
17020	.B	10 A 1P NO push button 12-24 V~ (SELV), with lightable name plate for microtube lamp 12-24 V 3 W ø 7x37 mm - 2 reduced module. Lamp is not provided

Technical characteristics:

- 17010.F, page 20
- 17010.L, page 20
- 17020, page 22

17010.F



17010.L



17020



17010.F.B



17010.L.B



17020.B



## Socket outlets



### Italian standards socket outlets 250 V~

Grey	White	
17031	.B	2P+E 10 A 250 V~ <b>SICURY</b> socket outlet Italian standard P11
17033	.B	2P+E 16 A 250 V~ <b>SICURY</b> Bpresa socket outlet Italian standard P17/11
17039	.B	2P+E 16 A 250 V~ <b>SICURY</b> socket outlet Italian standard P30 (lateral and central earth contacts) - 2 reduced modules

Technical characteristics, page 34



### Socket outlets 250 V~ for dedicated supply lines

17039.A	2P+E 16 A 250 V~ <b>SICURY</b> socket outlet Italian standard P30 (lateral and central earth contacts), orange - 2 reduced modules
17039.R	As above, red - 2 reduced modules
17039.V	As above, green - 2 reduced modules

Technical characteristics, page 36



### Socket outlets 250 V~ with locking device

17043	2P+E 10-16 A socket outlet French standard, with locking device for the insertion of special purpose plugs, grey - 2 reduced modules Supplied with releasing device 01079
17043.B	As above, white - 2 reduced modules
17043.R	As above, red - 2 reduced modules
01079	Spare releasing device for socket outlets with locking device 16213... and 17043..., red

Technical characteristics, page 38



### Foreign standards socket outlets

Grey	White	
17038	.B	2P+E 16 A 250 V~ <b>SICURY</b> socket outlet German standard - 2 reduced modules
17042	.B	2P+E 10-16 A 250 V socket outlet with shutters, French standard - 2 reduced modules
*17044	.B	2P 15 A socket outlet 250 V~ for 2P plugs American standards (15 A 125 V~ flat blades polarized and non-polarized + 15 A 250 V~ flat blades) and for 2P plugs with $\varnothing$ 4 and $\varnothing$ 4,8 mm pins, 19 mm distance between centres

Technical characteristics, page 44

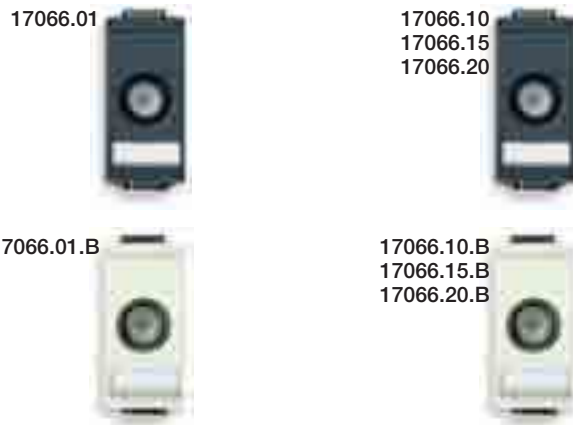
\* Only for Countries not members of the EU

# Coaxial socket outlets

## Coaxial TV-RD-SAT 5-2400 MHz socket outlets

Grey	White	
17066.01	.B	Coaxial TV-RD-SAT 5-2400 MHz socket outlet, single connection, with IEC 169-2 male connector, connection attenuation 1 dB. Allows the passage of d.c. current and control signals (24 V 500 mA max).
17066.10	.B	Coaxial TV-RD-SAT 5-2400 MHz socket outlet through-line, with IEC 169-2 male connector, connection attenuation 10 dB
17066.15	.B	As above, connection attenuation 15 dB
17066.20	.B	As above, connection attenuation 20 dB

Technical characteristics, page 62



17070.05	.B	Coaxial TV-RD-SAT 5-2400 MHz socket outlet single connection, 2 outputs with IEC 169-2 male and female connectors, connection attenuation 5 dB - 2 reduced modules. Allows the passage of d.c. current and control signals (24 V 500 mA max) through the female connector.
17070.10	.B	Coaxial TV-RD-SAT 5-2400 MHz socket outlet, through-line, 2 outputs with IEC 169-2 male and female connectors, connection attenuation 10 dB - 2 reduced modules
17070.15	.B	As above, connection attenuation 15 dB
17070.20	.B	As above, connection attenuation 20 dB

Technical characteristics, page 64



## Coaxial TV-RD-SAT1-SAT2 4-2150 MHz socket outlets

Grey	White	
17059.V02	.B	Coaxial TV-RD-SAT1-SAT2 4-2150 MHz socket outlet single connection, 4 cable outputs: 2 IEC 169-2 male and female connectors and 2 F type female connectors (IEC 169-24), completed with mounting frame and cover. Allows the passage of d.c. current and control signals (24 V 500 mA max) through the SAT1 and SAT2 outputs
17059.V15	.B	Coaxial TV-RD-SAT1-SAT2 4-2150 MHz socket outlet through-line, 4 cable outputs: 2 IEC 169-2 male and female connectors and 2 F type female connectors (IEC 169-24), completed with mounting frame and cover. Integrated switch for each SAT output (switching between the two polarizations through the voltages 13/18 V from the SAT receiver)

Technical characteristics, pages 68-70



## Coaxial TV 40-862 MHz socket outlets

Grey	White	
*17050	.B	Coaxial TV 40-862 MHz socket outlet, single connection, with IEC 169-2 female connector
*17050.S	.B	Coaxial TV 40-862 MHz socket outlet, single connection, with IEC 169-2 female connector, with 2 cord-grips
*17051	.B	Coaxial TV 40-862 MHz socket outlet, through-line, with IEC 169-2 female connector, throughpass attenuation 3 dB, connection attenuation 20 dB
*17052	.B	Coaxial TV 50-862 MHz socket outlet, line-end, with IEC 169-2 female connector, connection attenuation 20 dB

Technical characteristics, page 72



\* Only for countries not members of the EU

## Fuses - Terminal resistors



07050...

Miniature fuses  $\varnothing$  5x20 mm 250 V~

07050.0.6	0,6 A fuse, glass tube
07050.0.8	0,8 A fuse, glass tube
07050.01	1 A fuse, glass tube
07050.02	2 A fuse, glass tube
07050.04	4 A fuse, glass tube
07050.06	6 A fuse, glass tube
07050.08	8 A fuse, glass tube
07050.10	10 A fuse, glass tube
07050.16	16 A fuse, glass tube



07050.HF...

Fast-blow miniature fuses  $\varnothing$  5x20 mm 250 V~

07050.HF.2	F2AH fast-blow fuse with high breaking capacity, breaking capacity 1500 A, steatite tube
07050.HF.2.5	F2,5AH fast-blow fuse with high breaking capacity, breaking capacity 1500 A, steatite tube
07050.HF.5	F5AH fast-blow fuse with high breaking capacity, breaking capacity 1500 A, steatite tube



07050.HFF.16 Extra fast-blow miniature fuses 250 V~

$\varnothing$  5x20 mm

07050.HFF.16	FF16AH extra fast-blow fuse with high breaking capacity, breaking capacity 1500 A, steatite tube
--------------	--

$\varnothing$  6,3x32 mm

07051.HF.16	FF16AH extra fast-blow fuse with high breaking capacity, steatite tube
-------------	--



07051.HF.16



08175



16330



16356

Terminal resistors

*08175	75 $\Omega$ line-end terminal resistor for TV socket outlets
16330	75 $\Omega$ line-end terminal resistor for TV socket outlets, for frequencies up to 2400 MHz
16356	50 $\Omega$ line-end terminal resistor for TV socket outlets, Thinnet Tap system

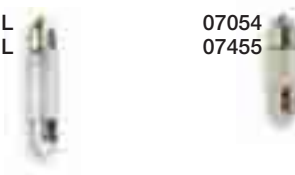
\* Only for Countries not members of the UE

# Microtube lamps

## Incandescent microtube lamps

07054.L  
07055.L

07054  
07455



<b>07054.L</b>	Incandescent lamp ø 7x37 mm, 12 V 3 W, white light
<b>07055.L</b>	Incandescent lamp ø 7x37 mm, 24 V 3 W, white light
<b>07054</b>	Incandescent lamp ø 7x29 mm, 12 V 3 W, white light
<b>07055</b>	Incandescent lamp ø 7x29 mm, 24 V 3 W, white light

## Technical specifications

Incandescent lamp life: 200 hours.

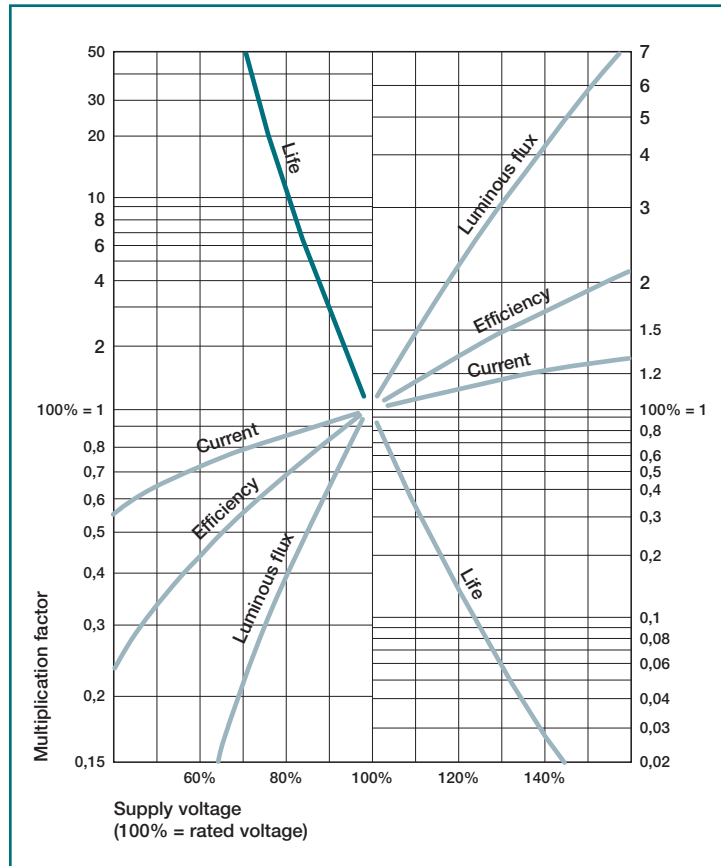
### Note

Lamp life can be considerably increased by lowering the power supply voltage: for example, a 20% reduction in supply voltage increases lamp life by approximately a factor of 10.

The table overleaf shows the variations in:

- lamp life
- current
- efficiency
- luminous flux

obtained by varying the supply voltage.



## Neon and fluorescent microtube lamps

07053...  
07052...



<b>07053</b>	Neon lamp ø 6,3x28 mm 110 V~ 0,5 W, red. Lamp life: 15000 hours (with rated voltage)
<b>07053.V</b>	Fluorescent lamp ø 6,3x28 mm 110 V~ 0,5 W, green. Lamp life: 10000 hours (with rated voltage)
<b>07053.AZ</b>	Fluorescent lamp ø 6,3x28 mm 110 V~ 0,5 W, blue. Lamp life: 5000 hours (with rated voltage)

<b>07052</b>	Neon lamp ø 6,3x28 mm 250 V~ 0,5 W, red. Lamp life: 15000 hours (with rated voltage)
<b>07052.V</b>	Fluorescent lamp ø 6,3x28 mm 250 V~ 0,5 W, green. Lamp life: 10000 hours (with rated voltage)
<b>07052.AZ</b>	Fluorescent lamp ø 6,3x28 mm 250 V~ 0,5 W, blue. Lamp life: 5000 hours (with rated voltage)

The above indicated colour is the colour of emitted light

## Signalling units - Lamps



10490  
10491  
10492..

### Signalling units

<b>10490</b>	Incandescent signalling unit, 12 V~ 0,5 W, white light. Life of the signalling unit: 10000 hours (with rated voltage)
<b>10491</b>	Incandescent signalling unit, 24 V~ 0,5 W, white light. Life of the signalling unit: 10000 hours (with rated voltage)
<b>10492</b>	Neon signalling unit, 110 V~ 0,5 W, red light. Life of the signalling unit: 25000 hours (with rated voltage)
<b>10492.V</b>	Fluorescent signalling unit, 110 V~ 0,5 W, green light. Life of the signalling unit: 10000 hours (with rated voltage)



10493...

<b>10492.AZ</b>	Fluorescent signalling unit, 110 V~ 0,5 W, blue light. Life of the signalling unit: 5000 hours (with rated voltage)
<b>10493</b>	Neon signalling unit, 250 V~ 0,5 W, red light. Life of the signalling unit: 25000 hours (with rated voltage)
<b>10493.V</b>	Fluorescent signalling unit, 250 V~ 0,5 W, green light. Life of the signalling unit: 10000 hours (with rated voltage)
<b>10493.AZ</b>	Fluorescent signalling unit, 250 V~ 0,5 W, blue light. Life of the signalling unit: 5000 hours (with rated voltage)



14778  
14779

### E10 10x28 mm neon lamps

<b>14778</b>	E10 10x28 mm neon lamp, 110 V~ 0,5 W, red. Lamp life: 25000 hours (with rated voltage)
<b>14779</b>	E10 10x28 mm neon lamp, 230 V~ 0,5 W, red. Lamp life: 25000 hours (with rated voltage)



14770  
14771  
14774  
14775

### E10 10x28 mm incandescent lamps

<b>14770</b>	E10 10x28 mm incandescent lamp, 12 V~ 2 W, white. Lamp life: 2000 hours (with rated voltage)
<b>14771</b>	E10 10x28 mm incandescent lamp, 24 V~ 2 W, white. Lamp life: 2000 hours (with rated voltage)
<b>14774</b>	E10 10x28 mm incandescent lamp, 12 V~ 0,6 W, white. Lamp life: 1000 hours (with rated voltage)
<b>14775</b>	E10 10x28 mm incandescent lamp, 24 V~ 1,2 W, white. Lamp life: 1000 hours (with rated voltage)

## E10 10x28 mm incandescent lamps

<b>14776</b>	E10 10x28 mm incandescent lamp, 130 V~ 2,6 W, white. Lamp life: 3000 hours (with rated voltage)
<b>14777</b>	E10 10x28 mm incandescent lamp, 260 V~ 3 W, white. Lamp life: 2000 hours (with rated voltage)

14776  
14777



## Screws

<b>07935</b>	19 mm screw with combined Phillips and slotted head for mounting frame fixing on rectangular mounting boxes
<b>07937</b>	35 mm screw with combined Phillips and slotted head for mounting frame fixing on rectangular mounting boxes
<b>07939</b>	50 mm screw with combined Phillips and slotted head for mounting frame fixing on rectangular mounting boxes

07935



07937



07939



## Coaxial TV-RD-SAT 2400 MHz socket connectors

<b>01634</b>	Coaxial male connector IEC 169-2, 90° cable entry - Z 75 Ω, white
<b>01635</b>	Coaxial female connector IEC 169-2, 90° cable entry - Z 75 Ω, white
<b>01654</b>	Coaxial female connector F type - Z 75 Ω, for cable RG59 (external ø 7 mm). For TV socket outlets 16329.V... and 17059.V...
<b>01644</b>	Coaxial male connector IEC 169-2, axial cable entry - Z 75 Ω, white
<b>01645</b>	Coaxial female connector IEC 169-2, axial cable entry - Z 75 Ω, white

01634



01635



01654



01644



01645



<b>01642</b>	Coaxial TV plugs ø 9,5 IEC - Z 75 Ω, axial cable entry, ivory
<b>*01640</b>	Coaxial TV plugs ø 13 IEC - Z 75 Ω, axial cable entry, ivory
<b>01631</b>	Coaxial TV plugs ø 9,5 IEC - Z 75 Ω, 90° cable entry, ivory
<b>*01630</b>	Coaxial TV plugs ø 13 IEC - Z 75 Ω, 90° cable entry, ivory
<b>01643</b>	Coaxial TV socket outlet ø 9,5 IEC - Z 75 Ω, axial cable entry, ivory
<b>*01641</b>	Coaxial TV socket outlet ø 13 IEC - Z 75 Ω, axial cable entry, ivory

01642



01640



01631



01630



01643



01641



\* Only for Countries not members of the UE



# Mounting frames

## Technical characteristics

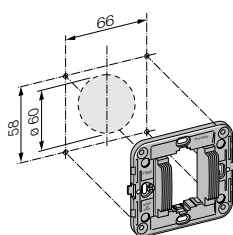
### Technical specifications

- polycarbonate (Glow Wire 850 °C)
- dielectric strength 2000 V
- 4 elastic fixing points for the snap fixing of the cover plates
- closely compacted rear grid for stiffening
- mounting frames for round mounting boxes  $\varnothing$  60 mm, supplied with fixing toothed metal claws
- mounting frames for rectangular mounting boxes, supplied with fixing screws (except for 16722 and 16722.L)

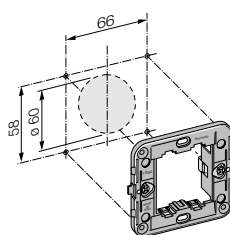
### Conformity to Standards

LV Directive  
Standard EN 60669-1

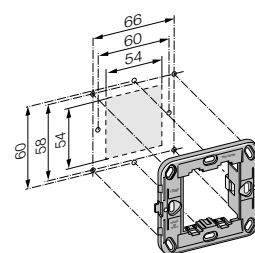
### Drilling templates (mm)



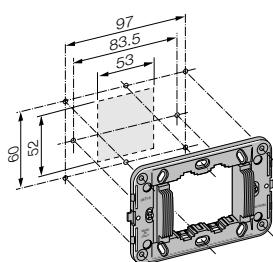
17080  
17081



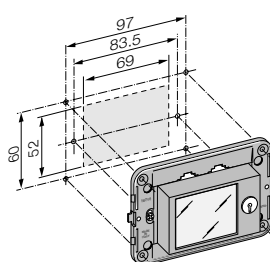
17082



17086  
17087



16722  
16722.L



16720

# Mounting frames

## Mounting frames

Grey      White

**17080**    .B    Mounting frame, smooth front, with claws, for the installation of 1 module on ø 60 mm round flush mounting box, or on surface mounting box 09971...



**17081**    .B    Mounting frame, grooved front, with claws, for the installation of 1 module on ø 60 mm round flush mounting box, or on surface mounting box 09971...



**17082**                    Mounting frame, with claws, for the installation of 2 reduced modules on ø 60 mm round flush mounting box, or on surface mounting box 09971...



**17086**    .B    Mounting frame, smooth front, without screws, 1 module, for round or square flush mounting box with 60 mm and 56x56 mm fixing centres, or for surface mounting box 09971...

**17087**                    Mounting frame, without screws, 2 reduced modules, for round or square flush mounting box with 60 mm and 56x56 mm fixing centres, or for surface mounting box 09971...



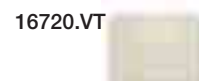
**16722.L**    .B    Mounting frame, smooth front, without screws, for the installation of 2 modules on 3-module rectangular mounting box, on square mounting box with 60 mm and 56x56 mm fixing centres, or on surface mounting box 09975...



**16722**    .B    Mounting frame, grooved front, without screws, for the installation of 2 modules on rectangular mounting box, on square mounting box with 60 mm and 56x56 mm fixing centres, or on surface mounting box 09975...



**16720**    .B    Mounting frame, with screws, with lockable door and transparent, replaceable frontal lid in breakable glass (16720.VT) for the installation of 2 modules on 3-module rectangular flush mounting boxes, or on surface mounting box 09975.A and 09975...



Provided with 2 keys.  
On request provided with unified keys codified 000 (16720.CU and 16720.CU.B).  
Suitable for installation, in lockable door, of the general emergency control for lifts and elevators installed in civil buildings

**16720.VT**                    Frontal lid, breakable glass, spare part for mounting frame 16720



# Mounting frames



16713



16813.Q

## Mounting frames (continued)

Grey

White

16713

3-module mounting frame, with screws, for 3-module rectangular flush mounting box or for surface mounting box 09975...

16713.C

Transparent protective cover for mounting frames 16713, 16722 and 16722.L



16713.C

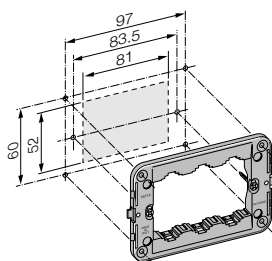


16813.Q.B

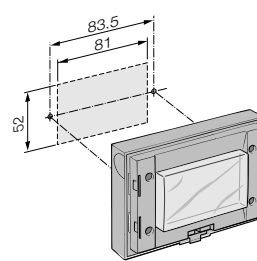
16813.Q .B

3-module mounting frame, with screws, cover with IP55 transparent elastic membrane for 3-module rectangular flush mounting box. Degree of protection IP55 with cover closed and for installation on smooth walls without grooves, waterproofed by means of tiles, marble or similar materials. Suitable for *classica cover plate* Idea

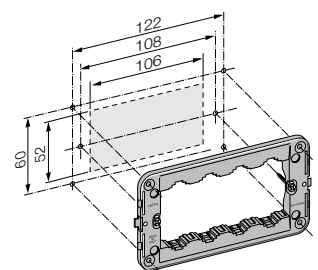
## Drilling template (mm)



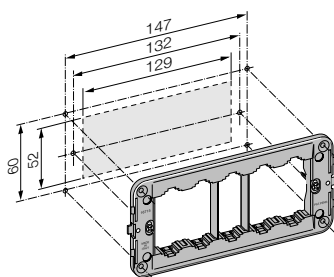
16713



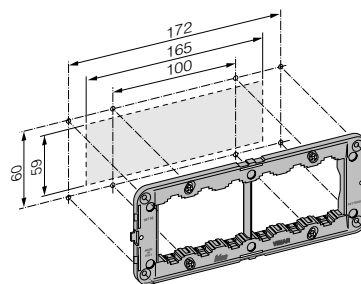
16813.Q



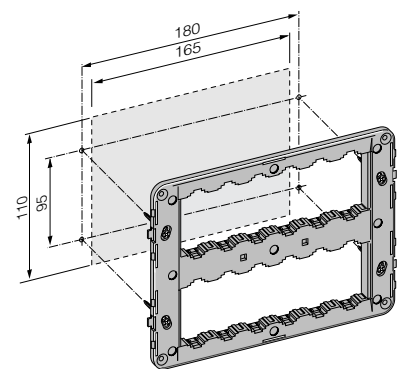
16714



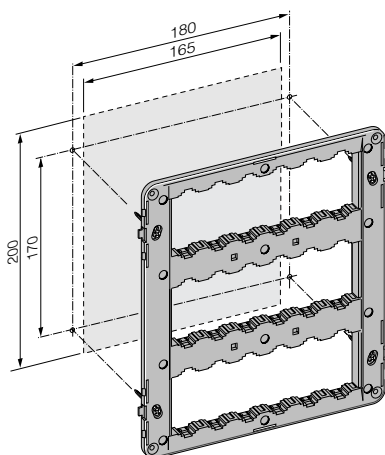
16715



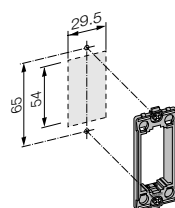
16716



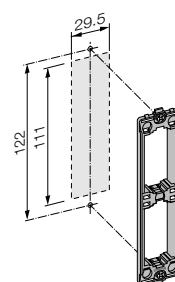
16718



16719



16771



16772

## Mounting frames

### Mounting frames (continued)

Grey

16714	4-module mounting frame, with screws, for 4-module rectangular flush mounting box
16715	5-module mounting frame, with screws, for 5-module rectangular flush mounting box <i>Suitable only for 5-module <i>classica</i> cover plate</i>
16716	6-module mounting frame, with screws, for 6/7-module rectangular flush mounting box



16718	12-module (6+6) mounting frame, with screws, for flush mounting box V71320 or for surface mounting box 09920...
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16719	18-module (6+6+6) mounting frame, with screws, for flush mounting box V71321 for or surface mounting box 09921...
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16771	Mounting frame, with screws, for panel mounting of 1 module
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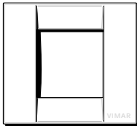
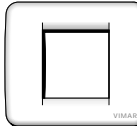



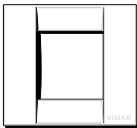
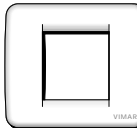




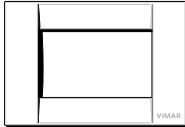
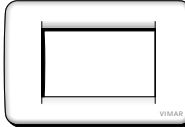
16772	Mounting frame, with screws, for panel mounting of 2 modules (1 over 1)
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## 1 module - 2 modules - 2 reduced modules

	Flush mounting boxes	Surface mounting boxes
1 module	 <p><b>V71001</b> - GW 650 °C, light blue  <b>V71001.AU</b> - GW 960 °C, black                      For mounting frames with claws</p>  <p><b>V71601</b> - GW 850 °C, light blue                      For mounting frames without claws</p>	 <p><b>09971.A</b> - Depth 43,5 mm,                      ivory RAL 9001  <b>09971.01</b> - As above, white</p>
2 reduced modules	 <p><b>V71601</b> - GW 850 °C, light blue                      For mounting frames without claws</p>	 <p><b>09971.A</b> - Depth 43,5 mm,                      ivory RAL 9001  <b>09971.01</b> - As above, white</p>
2 modules	 <p><b>V71303</b> - GW 650 °C, light blue  <b>V71303.AU</b> - GW 960 °C, black</p>  <p><b>V71603</b> - GW 850 °C, light blue</p>	 <p><b>09975.A</b> - Depth 43,5 mm,                      ivory RAL 9001  <b>09975.01</b> - As above, white</p>  <p><b>09976.04</b> - Depth 30 mm,                      Idea white  <b>09976.14</b> - As above, Idea grey</p>

# 1 module - 2 modules - 2 reduced modules

Mounting frames		N° of modules	Cover plates	
 <b>17080</b> With claws, smoothed front, grey <b>17080.B</b> As above, white	 <b>17081</b> With claws, grooved front, grey <b>17081.B</b> As above, white	 <b>1 module</b>	<i>classica cover plate</i>  <b>17092...</b> Die cast metal Wood <b>17097...</b> Technopolymer <b>17097.D...SILK</b> Dimensions 80x80x9 mm	<i>rondò cover plate</i>  <b>17093...</b> Die cast metal Wood <b>17098...</b> Technopolymer <b>17098.D...SILK</b> Dimensions 91x80x9 mm
 <b>17086</b> With claws, smoothed front, grey <b>17086.B</b> As above, white				
 <b>17082</b> With claws		 <b>2 reduced modules</b>	<i>classica cover plate</i>  <b>17092...</b> Die cast metal Wood <b>17097...</b> Technopolymer <b>17097.D...SILK</b> Dimensions 80x80x9 mm	<i>rondò cover plate</i>  <b>17093...</b> Die cast metal Wood <b>17098...</b> Technopolymer <b>17098.D...SILK</b> Dimensions 91x80x9 mm
 <b>17087</b> Without screws				
 <b>16722/16722.L</b> Without screws, grooved/smooth front, grey <b>16722.B/16722.L.B</b> As above, white	 <b>16720<sup>1</sup></b> With screws, lockable door, grey <b>16720.B<sup>1</sup></b> As above, white	 <b>2 modules</b>	<i>classica cover plate</i>  <b>16733...</b> Die cast metal Wood <b>16743...</b> Technopolymer <b>16743.D...SILK</b> Dimensions 120x82x9 mm	<i>rondò cover plate</i>  <b>16753...</b> Die cast metal Wood <b>16763...</b> Technopolymer <b>16763.D...SILK</b> Dimensions 123x82x9 mm

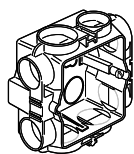
<sup>1</sup> For unified key codified 000, add .CU to the basic code

## 1 module - 2 modules - 2 reduced modules

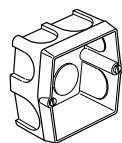
### Flush mounting boxes

### Surface mounting boxes

1 module - 2 reduced modules



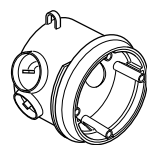
**65x65 mm**  
For masonry walls



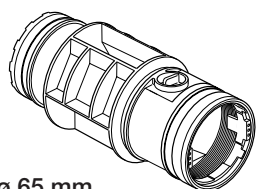
**65x65 mm**  
For masonry walls



**Ø 65 mm**  
For hollow masonry walls

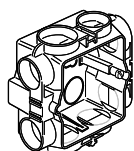


**Ø 65 mm**  
For concrete walls

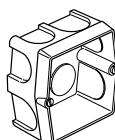


**Ø 65 mm**  
For concrete walls

2 modules



**65x65 mm**  
For masonry walls



**65x65 mm**  
For masonry walls

# 1 module - 2 modules - 2 reduced modules

## Mounting frames

## N° of modules

## Cover plates

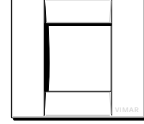


**17086**  
With claws, smoothed front,  
grey  
**17086.B**  
As above, white



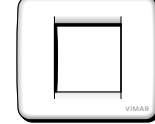
**1 module**

*classica cover plate*



**17092...** Die cast metal  
Wood  
**17097...** Technopolymer  
**17097.D...SILK**  
Dimensions 80x80x9 mm

*round cover plate*



**17093...** Die cast metal  
Wood  
**17098...** Technopolymer  
**17098.D...SILK**  
Dimensions 91x80x9 mm

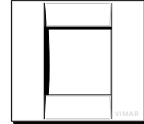


**17087**  
Without screws



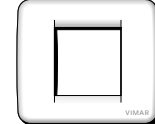
**2 reduced  
modules**

*classica cover plate*



**17092...** Die cast metal  
Wood  
**17097...** Technopolymer  
**17097.D...SILK**  
Dimensions 80x80x9 mm

*round cover plate*



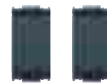
**17093...** Die cast metal  
Wood  
**17098...** Technopolymer  
**17098.D...SILK**  
Dimensions 91x80x9 mm



**16722**  
Without screws, grooved  
front, grey  
**16722.B**  
As above, white

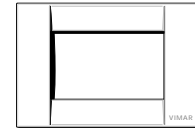


**16722.L**  
Without screws, smoothed  
front, grey  
**16722.L.B**  
As above, white



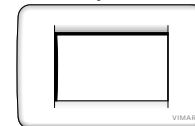
**2 modules**

*classica cover plate*



**16733...** Die cast metal  
Wood  
**16743...** Technopolymer  
**16743.D...SILK**  
Dimensions 120x82x9 mm

*round cover plate*



**16763...** Die cast metal  
Wood  
**16763...** Technopolymer  
**16763.D...SILK**  
Dimensions 123x82x9 mm



## 3 modules - 4 modules - 5 modules - 6 modules

	Flush mounting boxes	Surface mounting boxes
3 modules	 <p>V71303 - GW 650 °C, light blue V71303.AU - GW 960 °C, black</p> <p>V71603 - GW 850 °C, light blue</p>	 <p>09975.A - Depth 43,5 mm, ivory RAL 9001 09975.01 - As above, white <i>Only for classica cover plate</i></p> <p>09976.04 - Depth 30 mm, Idea white 09976.14 - As above, Idea grey</p>
4 modules	 <p>V71304 - GW 650 °C, light blue V71304.AU - GW 960 °C, black</p> <p>V71604 - GW 850 °C, light blue</p>	
5 modules	 <p>V71305 - GW 650 °C, light blue V71305.AU - GW 960 °C, black</p>	
6 modules	 <p>V71306 - GW 650 °C, light blue V71306.AU - GW 960 °C, black</p> <p>V71606 - GW 850 °C, light blue</p>	

# 3 modules - 4 modules - 5 modules - 6 modules

## Mounting frames

## N° of modules

## Cover plates



**16713**  
With screws



**16813.Q**  
With screws, IP55, grey

**16813.Q.B**  
As above, white

For *classica cover plate* only.  
For flush mounting boxes only.



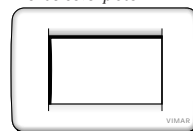
3 modules

*classica cover plate*



**16733...** Die cast metal  
Wood  
**16743...** Technopolymer  
**16743.D...**SILK  
Dimensions 120x82x9 mm

*rondò cover plate*



**16753...** Die cast metal  
Wood  
**16763...** Technopolymer  
**16763.D...**SILK  
Dimensions 123x82x9 mm

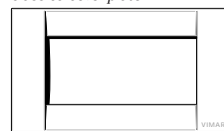


**16714**  
With screws



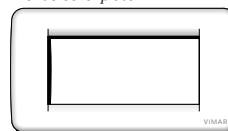
4 modules

*classica cover plate*



**16734...** Die cast metal  
Wood  
**16744...** Technopolymer  
**16744.D...**SILK  
Dimensions 145x82x9 mm

*rondò cover plate*



**16754...** Die cast metal  
Wood  
**16764...** Technopolymer  
**16764.D...**SILK  
Dimensions 148x82x9 mm

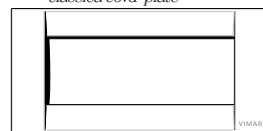


**16715**  
With screws



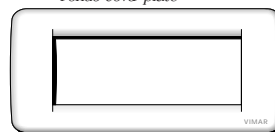
5 modules

*classica cover plate*



**16745...** Technopolymer  
**16745.D...**SILK  
Dimensions 170x82x9 mm

*rondò cover plate*



**16765...** Technopolymer  
**16765.D...**SILK  
Dimensions 173x82x9 mm

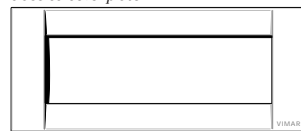


**16716**  
With screws



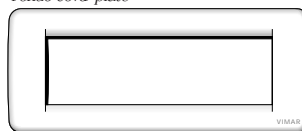
6 modules

*classica cover plate*



**16736...** Die cast metal  
Wood  
**16746...** Technopolymer  
**16746.D...**SILK  
Dimensions 195x82x9 mm

*rondò cover plate*



**16756...** Die cast metal  
Wood  
**16766...** Technopolymer  
**16766.D...**SILK  
Dimensions 198x82x9 mm

## 12 modules (6+6), 18 modules (6+6+6)

### Flush mounting boxes

### Surface mounting boxes

12 modules (6+6)



V71320 - GW 650 °C, light blue



09920.14 - Idea grey  
09920.04 - Idea white

18 modules (6+6+6)



V71321 - GW 650 °C, light blue



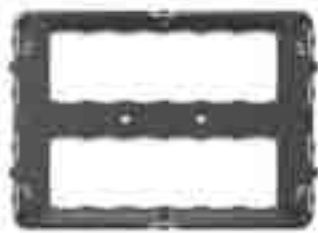
09921.14 - Idea grey  
09921.04 - Idea white

# 12 modules (6+6), 18 modules (6+6+6)

## Mounting frames

## N° of modules

## Cover plates

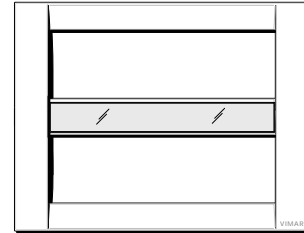


**16718**  
With screws



12 modules

*classica cover plate*



**16748...** Technopolymer, with signalling tags.  
Colours available: bright white (01), Idea white (04), Idea grey (14), black (16), metallized anthracite (V23).  
Dimensions 206x150x11 mm

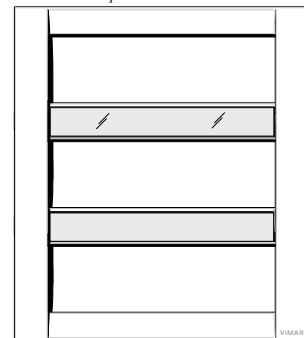


**16719**  
With screws



18 modules

*classica cover plate*



**16749...** Technopolymer, with signalling tags.  
Colours available: bright white (01), Idea white (04), Idea grey (14), black (16), metallized anthracite (V23).  
Dimensions 206x222x11 mm

## Table mounting

### Table mounting boxes

3 modules



16803 - Grey  
16803.B - White

6 modules



16806 - Grey  
16806.B - White

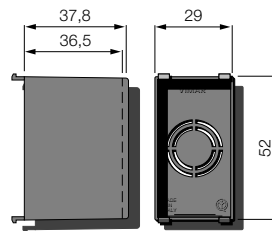
## Panel mounting

### Mounting boxes

1 module



16776.AU



2 modules



16776.AU + 16776.AU

## Table mounting

Mounting frames	N° of modules	Cover plates
	<p>3 modules</p>	<p><i>classica cover plate</i></p> <p><b>16733...</b> Die cast metal Wood <b>16743...</b> Technopolymer <b>16743.D...</b>SILK Dimensions 120x82x9 mm</p>
	<p>6 modules</p>	<p><i>classica cover plate</i></p> <p><b>16736...</b> Die cast metal Wood <b>16746...</b> Technopolymer <b>16746.D...</b>SILK Dimensions 195x82x9 mm</p>

## Panel mounting

Mounting frames	N° of modules	Cover plates
<p><b>16771</b> With screws</p>	<p>1 module</p>	<p><i>classica cover plate</i></p> <p><b>16781...</b> Die cast metal<sup>°</sup> <b>16786...</b> Technopolymer<sup>°°</sup> Dimensions 40x80x9 mm</p> <p><i>rondò cover plate</i></p> <p><b>16783...</b> Die cast metal<sup>°</sup> Dimensions 41x85x9 mm</p>
<p><b>16772</b> With screws</p>	<p>2 modules</p>	<p><i>classica cover plate</i></p> <p><b>16782...</b> Die cast metal<sup>°</sup> <b>16787...</b> Technopolymer<sup>°°</sup> Dimensions 40x137x9 mm</p> <p><i>rondò cover plate</i></p> <p><b>16784...</b> Die cast metal<sup>°</sup> Dimensions 41x142x9 mm</p>

<sup>°</sup> Colours of die-cast metal cover plate: bright white (01), black (11), metallized anthracite (23), polished gold (32).  
<sup>°°</sup> Colours of technopolymer classica cover plate: bright white (01), Idea white (04), graphite grey (15), black (16)  
Additional colours available on request for 100 pieces minimum

## *Classica cover plates*

### Die-cast metal



01 White



05 Amaranth



07 Forest green



08 Sage green



10 Ivory



11 Black



12 Cobalt blue



21 Metallized silver



22 Metallized bronze



23 Metallized anthracite



24 Metallized titanium



25 Metallized bordeaux



26 Metallized powder blue



27 Iridescent champagne



28 Iridescent Euro blue



29 Iridescent petroleum



31 Black chrome



32 Polished gold



33 Matt gold



34 Brushed nickel



36 Chrome



41 Walnut briar



42 Cherry briar



46 Slate grey

*Classica cover plates*

**Wood**



51 Natural maple



53 Natural cherry



55 Natural walnut



56 Natural wengé



57 Natural teak

**Technopolymer**



58 Natural mahogany



01 Bright white



02 Granite white



04 Idea white



07 Ruby red



10 Sapphire blue



13 Emerald green



15 Graphite grey



16 Black



40 Briar



43 Makoré



44 Rosewood



47 Satin black



48 Satin grey

**Silk**



01 White



02 Granite white



04 Idea white



07 Red



10 Blue



13 Green



15 Graphite

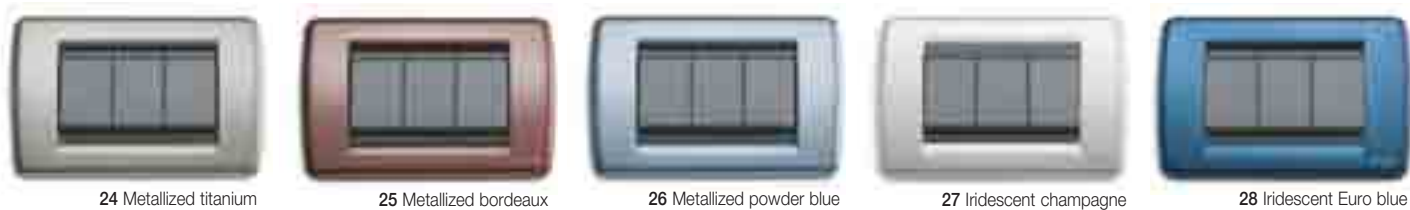


16 Black



## *Rondò cover plates*

### Die-cast metal



*Rondò cover plates*

Wood



51 Natural maple



53 Natural cherry



55 Natural walnut



56 Natural wengé



57 Natural teak

Technopolymer



58 Natural mahogany



01 Bright white



02 Granite white



04 Idea white



07 Ruby red



10 Sapphire blue



13 Emerald green



15 Graphite grey



16 Black



40 Briar



43 Makoré



44 Rosewood



47 Satin black



48 Satin grey

Silk



01 White



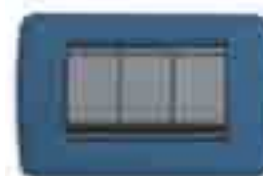
02 Granite white



04 Idea white



07 Red



10 Blue



13 Green



15 Graphite



16 Black

## IP40 consumer units



V53908



V53008... IP40 Idea consumer units - 8 modules

V53008.G	Flush consumer unit with horizontally hinged transparent door, 8 modules, delivered with EN 50022 rail, Idea grey
V53008.B	As above, Idea white
V53008.N	As above, black
V53008.Z	As above, white
V53008.V23	As above, metallized anthracite
V53008.V41	As above, walnut briar
V53008.V42	As above, cherry briar
V53908	Mounting box for 8-module consumer unit V53008..., light blue



V53912



V53012... IP40 Idea consumer units - 12 modules

V53012.G	Flush consumer unit with horizontally hinged transparent door, 12 modules, delivered with EN 50022 rail, Idea grey
V53012.B	As above, Idea white
V53012.N	As above, black
V53012.Z	As above, white
V53012.V23	As above, metallized anthracite
V53012.V41	As above, walnut briar
V53012.V42	As above, cherry briar
V53912	Mounting box for 12-module consumer unit V53012..., light blue



V53924



V53024... IP40 Idea consumer units - 24 modules

V53024.G	Flush consumer unit with horizontally hinged transparent door, 24 modules, delivered with EN 50022 rail, Idea grey
V53024.B	As above, Idea white
V53024.N	As above, black
V53024.Z	As above, white
V53024.V23	As above, metallized anthracite
V53024.V41	As above, walnut briar
V53024.V42	As above, cherry briar
V53924	Mounting box for 24-module consumer unit V53024..., light blue



V53936



V53036... IP40 Idea consumer units - 12 modules

V53036.G	Flush consumer unit with vertically hinged transparent door, 36 modules, delivered with EN 50022 rail, Idea grey
V53036.B	As above, Idea white
V53036.N	As above, black
V53036.Z	As above, white
V53036.V23	As above, metallized anthracite
V53036.V41	As above, walnut briar
V53036.V42	As above, cherry briar
V53936	Mounting box for 36-module consumer unit V53036..., light blue

## Accessories - IP40 and IP55 surface enclosures

### Accessories for 12-24 modules consumer units

V53994



**V53994** Support for earth terminal block bracket with slot fixing holes, for installation on the bottom of mounting boxes V53912 and V53924. Supplied with fixing screws. To be completed with terminal block

### IP40 surface enclosures

Grey	Ivory	
13023	.A	2-module enclosure
13033	.A	3-module enclosure
13045	.A	4-module enclosure

13023



13033



13045



### IP55 surface enclosures

Grey	Ivory	
13523	.A	2-module enclosure
13533	.A	3-module enclosure
13545	.A	4-module enclosure

13523



13533



13545



### IP55 covers

Grey	Ivory	
13733.Q	.A	3-module cover
13745.Q	.A	4-module cover

13733.Q



13745.Q





V71551

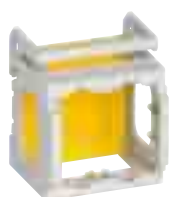


V71550

## Installation accessories

**V71551** Horizontal dividing screen for V71320, V71321, 09920..., 09921...

**V71550** Dividing screen for boxes: V71303, V71304, V71305, V71306



16727



16726

## Supports on EN 50022 rail installation

**16726** 1-module support for installation on EN 50022 rail, occupies 2 17,5 mm modules, grey RAL 7035.  
Supplied with insulating lining

**16727** 2-module support for installation on EN 50022 rail, occupies 3,5 17,5 mm modules, grey RAL 7035  
Supplied with insulating lining

Example of use



# Equipment, cover plate and card customizations

## Equipment and cover plate customizations

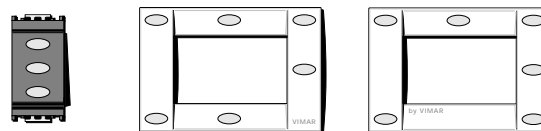
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The following symbols are laser engraved:

- all symbols of the **articles present in this catalogue**
- **the symbols and wordings** underneath; to order them, the desired article reference is to be completed with the relevant code of the desired symbol or wording (i.e. 16001.01 = 1P 1-way switch 16 A with symbol .01)
- **symbols, logotypes or trademarks on request:** send, with the order, the black and white image to reproduce, 2-3 times larger than the desired dimension. In case of articles with standard symbol, it should be indicated if what requested is in addition to or in place of the standard symbols. With the laser technology, colours cannot be reproduced.



### Possible personalization positions



Only for die-cast metal cover plates

## Standard symbols and wordings (♦ symbols on catalogued equipments)

01	02	03	04	05	06	07	08	09	10	11
12	13	14	15	16	17	18	19	20	21	♦51
										open
♦52	♦53	54	55	56	57	58	59	60	61	222
come in	bathroom	cellar	close	outside	garage	general	garden	back	light	OFF
223	224	225	226	227	28	229	230	231	232	33
ON	storeroom	stairs	attic	terrace	alarm	do not disturb				
34	235	236	237	238	49	50				

## Access control smart card

On request, is possible to customize the back of the smart card



## Warnings

### Laser customization advantages

- indelible engraving that does not deteriorate over time
- high-precision reproduction even of very fine lines and complex images
- service available even for minimal quantities
- possibility of ordering the same customization at different times with identical results, because all customizations are stored on magnetic supports.

### The few limits of technology

- it is not possible to reproduce coloured images
- **the following cover plates colours can not be customized:**  
SILK: .07, .10, .13 and technopolymer: .40, .43, .44, .47
- **wood cover plate customization: prices and quantities agreed with the commercial network**

### What to supply

- a printout or transparency of the image to be reproduced, in black-and-white line drawing scaled 2 or 3 times larger than the finished size
- the image may also be supplied on magnetic support, together with hard copy: DOS or MAC diskette with image in EPS or TIFF format (consult your printer or graphic artist)

- for button engravings, make sure that the desired symbol or label is not already included in the table "Standard symbols and wordings" below; if so, simply indicate the corresponding code in addition to the article code in your order

### Things to avoid

- do not provide photocopies
- do not fax the image to be reproduced, since the low definition of the fax makes it impossible to reproduce the document in laser quality

### How to proceed

- enclose the image to be reproduced, without using paper clips, staples or adhesive tape
- deliver all of the documentation to your area wholesaler/distributor, who will then forward it to Vimar

### Estimated lead times for equipments and cover plates

- 10 working days for the sample
- 10 working days from confirmation for completed order

### Estimated lead times for smart card

- 15 working days for the sample
- 20 working days from confirmation for completed order

# Marks and certifications

## General notes

VIMAR products are built according to all safety measure, in full compliance with the requirements of the Laws.

If they are assembled, installed and used properly, they do not constitute a hazard to the safety of people, pets and property. VIMAR realizes electrical installations in accordance with the requirements of the electrical installation Laws.

All the VIMAR products which are regulated by EEC Directives (**EMC Directive, LV Directive, R&TTE Directive**) are in compliance with the essential requirements thereof.

With the CE mark, they may be marketed and used within the European Union without further formalities.

The CE MARKING placed on the product and/or on the packing and/or on any usage warnings that may accompany the product, "indicate compliance with the Directives" above mentioned.

## Product certification

Certification by recognized third-party boards is voluntary and adds value to the product provided with a mark of compliance. In some countries certification is compulsory and represents an essential market requisite.

Certified products are subject to permanent inspection by the recognized third-party boards, through both inspections of the manufacturing site and market spot-checks.

The trademarks and certifications listed below refer to the products which have been approved as of the printing date of this catalogue.

Approval may be in progress for other products, or unplanned for those products which are not considered by standards, yet, and thus not subject to marking procedures.

### Marks and certifications



1

**IMQ - Italy**  
Istituto Italiano del  
Marchio di Qualità



2

**IMQ - Italy**  
Marchio IMQ-UNICIG  
per gli apparecchi utilizzatori  
a gas e relativi accessori



3

**IMQ - Italy**  
Certificato con  
Sorveglianza IMQ



4

**LCIE - France**  
Laboratoire Central  
des Industries Electriques



5

**SEV - Switzerland**  
Swiss Electrotechnical  
Association



6

**SIQ - Slovenia**  
Slovenian Institute of  
Quality and Metrology



7

**KONČAR - Croatia**  
Electrical Engineering  
Institute



8

**MEEI - Hungary**  
Hungarian Institute for  
Testing and Certification  
of Electrical Equipment



9

**VDE - Germany**  
Testing and Certification  
Institute



10

**GOSSTANDART - Russia**



11

**EZÚ - Czech Republic**  
Electrotechnical  
Testing Institute



12

**EVPÚ - Slovakia Republic**  
Electrotechnical Research  
and Design Institute



13

**BBJ-SEP - Poland**  
Association of Polish  
Electrical Engineers  
Testing laboratory BBJ-SEP



14

**TSE - Turkey**  
Turkish Standards  
Institution



15

**CQC - China**  
China Quality  
Certification Center



16

**UL - USA**  
Underwriters  
Laboratories Inc.



17

**ENEC IMQ**  
European Norms  
Electrical Certification



18

**ENEC VDE**  
European Norms  
Electrical Certification



19

**NOM - Mexico**



20

**IRAM - Argentina**  
Istituto Argentino  
de Normalización



21

**IMQ - Italy**  
Marchio IMQ  
Sistemi di Sicurezza



22

**ENEC ÖVE**  
European Norms  
Electrical Certification



23

**UCIEE - Brasile**  
União Certificadora



24

**BSI - United Kingdom**  
British Standards  
Institution



25

**CSA - Canada**  
Canadian Standard  
Association

Article	Description	Pack quantity	Page	Marks (See the marks table page 166)
V53008.B	Flush consumer unit 8M Idea white	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53008.G	Flush consumer unit 8M Idea grey	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53008.N	Flush consumer unit 8M black	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53008.V23	Flush consumer unit 8M metall.anthracite	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53008.V41	Flush consumer unit 8M walnut briar	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53008.V42	Flush consumer unit 8M cherry briar	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53008.Z	Flush consumer unit 8M bright white	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53012.B	Flush consumer unit 12M Idea white	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53012.G	Flush consumer unit 12M Idea grey	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53012.N	Flush consumer unit 12M black	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53012.V23	Flush consumer unit 12M metall.anthracite	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53012.V41	Flush consumer unit 12M walnut briar	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53012.V42	Flush consumer unit 12M cherry briar	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53012.Z	Flush consumer unit 12M bright white	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53024.B	Flush consumer unit 24M Idea white	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53024.G	Flush consumer unit 24M Idea grey	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53024.N	Flush consumer unit 24M Idea black	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53024.V23	Flush consumer unit 24M metall.anthracite	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53024.V41	Flush consumer unit 24M walnut briar	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53024.V42	Flush consumer unit 24M cherry briar	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53024.Z	Flush consumer unit 24M bright white	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53036.B	Flush consumer unit 36M Idea white	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53036.G	Flush consumer unit 36M Idea grey	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53036.N	Flush consumer unit 36M black	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53036.V23	Flush consumer unit 36M metall.anthracite	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53036.V41	Flush consumer unit 36M walnut briar	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53036.V42	Flush consumer unit 36M cherry briar	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53036.Z	Flush consumer unit 36M bright white	1/1	<a href="#">162</a>	<a href="#">1-7</a>
V53908	Flush mounting box for V53008	30/30	<a href="#">162</a>	<a href="#">1-7</a>
V53912	Flush mounting box for V53012	15/15	<a href="#">162</a>	<a href="#">1-7</a>
V53924	Flush mounting box for V53024	8/8	<a href="#">162</a>	<a href="#">1-7</a>
V53936	Flush mounting box for V53036	4/4	<a href="#">162</a>	<a href="#">1-7</a>
V53994	Bracket bearing terminal bar 12-24M	20/20	<a href="#">163</a>	
V71001	ø60 mm flush mounting box light blue	200/200	<a href="#">148</a>	<a href="#">1-4-6-8-10</a>
V71001.AU	ø60mm flush mounting box black	200/200	<a href="#">148</a>	<a href="#">1-4-6-8-10</a>
V71303	Flush mounting box 3M light blue	300/300	<a href="#">148</a>	<a href="#">1-4-6-8-10</a>
V71303.AU	Flush mounting box 3M black	300/300	<a href="#">148</a>	<a href="#">1-4-6-8-10</a>
V71304	Flush mounting box 4M light blue	96/96	<a href="#">152</a>	<a href="#">1-4-6-8-10</a>
V71304.AU	Flush mounting box 4M black	96/96	<a href="#">152</a>	<a href="#">1-4-6-8-10</a>
V71305	Flush mounting box 5M light blue	84/84	<a href="#">152</a>	<a href="#">1-5-7-10</a>
V71305.AU	Flush mounting box 5M black	84/84	<a href="#">152</a>	<a href="#">1-5-7-10</a>
V71306	Flush mounting box 6M light blue	48/48	<a href="#">152</a>	<a href="#">1-4-6-8-10</a>
V71306.AU	Flush mounting box 6M black	48/48	<a href="#">152</a>	<a href="#">1-4-6-8-10</a>
V71320	Flush mounting box 12-24M light blue	20/20	<a href="#">154</a>	<a href="#">1-5</a>
V71321	Flush mounting box 18-21M light blue	10/10	<a href="#">154</a>	<a href="#">1</a>
V71550	Dividing screen for flush-mount box yell	50/50	<a href="#">164</a>	<a href="#">1-4-6-10</a>
V71551	Horiz.dividing screen for flush-mountbox	50/50	<a href="#">164</a>	
V71601	Round flush-mount box for hollow walls	100/100	<a href="#">148</a>	<a href="#">1-4-6</a>
V71603	Flush-mount box 3M for hollow walls blue	130/130	<a href="#">148</a>	<a href="#">1-4-6-8-10</a>
V71604	Flush-mount box 4M for hollow walls blue	100/100	<a href="#">152</a>	<a href="#">1-4-6-8-10</a>
V71606	Flush-mount box 6M for hollow walls blue	40/40	<a href="#">152</a>	<a href="#">1-4-6</a>
01079	Spare releasing device	100/100	<a href="#">152</a>	
* 01630	TV ø13 90° plug ivory	100/100	<a href="#">39</a>	<a href="#">7</a>
01631	TV ø9,5 90° plug ivory	100/100	<a href="#">143</a>	<a href="#">7</a>
01634	TV-RD-SAT male 90° connector white	50/50	<a href="#">143</a>	<a href="#">1</a>
01635	TV-RD-SAT female 90° connector white	50/50	<a href="#">143</a>	<a href="#">1</a>
* 01640	TV ø13 axial plug ivory	100/100	<a href="#">143</a>	<a href="#">7</a>
* 01641	TV ø13 axial outlet ivory	100/100	<a href="#">143</a>	<a href="#">7</a>
01642	TV ø9,5 axial plug ivory	100/100	<a href="#">143</a>	<a href="#">7</a>
01643	TV ø9,5 axial outlet ivory	100/100	<a href="#">143</a>	<a href="#">7</a>
01644	TV-RD-SAT male axial connector white	50/50	<a href="#">143</a>	<a href="#">1-7</a>
01645	TV-RD-SAT female axial connector white	50/50	<a href="#">143</a>	<a href="#">1-7</a>
01654	TV-RD-SAT F type male connector	100/100	<a href="#">143</a>	<a href="#">1-7</a>
01899	Gas test cylinder	12/12	<a href="#">93</a>	
07050.0.6	0,6A 5x20mm fuse	50/50	<a href="#">140</a>	<a href="#">1</a>
07050.0.8	0,8A 5x20mm fuse	50/50	<a href="#">140</a>	<a href="#">1</a>
07050.01	1A 5x20mm fuse	50/50	<a href="#">140</a>	<a href="#">1</a>
07050.02	2A 5x20mm fuse	50/50	<a href="#">140</a>	<a href="#">1</a>
07050.04	4A 5x20mm fuse	50/50	<a href="#">140</a>	<a href="#">1</a>
07050.06	6A 5x20mm fuse	50/50	<a href="#">140</a>	<a href="#">1</a>
07050.08	8A 5x20mm fuse	50/50	<a href="#">140</a>	
07050.10	10A 5x20mm fuse	50/50	<a href="#">140</a>	
07050.16	16A 5x20mm fuse	50/50	<a href="#">140</a>	
07050.HF.2	5x20mm F2AH quick-acting fuse	50/50	<a href="#">140</a>	<a href="#">1</a>



# Index

Article	Description	Pack quantity	Page	Marks (See the marks table page 166)
07050.HF.2.5	5x20mm F2,5AH quick-acting fuse	50/50	140	1
07050.HF.5	5x20mm F5AH quick-acting fuse	50/50	140	1
07050.HFF.16	5x20mm FF16AH extra quick-acting fuse	50/50	140	
07051.HF.16	6,3x32mm F16AH quick-acting fuse	50/50	140	
07052	250V 0,5W neon lamp red	50/50	141	
07052.AZ	250V 0,5W fluorescent lamp light blue	50/50	141	
07052.V	250V 0,5W fluorescent lamp green	50/50	141	
07053	110V 0,5W neon lamp red	50/50	141	
07053.AZ	110V 0,5W fluorescent lamp light blue	50/50	141	
07053.V	110V 0,5W fluorescent lamp green	50/50	141	
07054	12V 3W 7x29mm incandescent lamp white	50/50	141	
07054.L	12V 3W 7x37mm incandescent lamp white	50/50	141	
07055	24V 3W 7x29mm incandescent lamp white	50/50	141	
07055.L	24V 3W 7x37mm incandescent lamp white	50/50	141	
07935	Screw for mounting frame fixing - 19mm	100/100	143	
07937	Screw for mounting frame fixing - 35mm	500/500	143	
07939	Screw for mounting frame fixing - 50mm	500/500	143	
* 08175	Terminal resistor - 75ohm	50/50	73	
09920.04	Surface-box 12/14M Idea white	25/25	154	1-5
09920.14	Surface-box 12/14M Idea grey	25/25	154	1-5
09921.04	Surface-box 18/21M Idea white	12/12	154	1-5
09921.14	Surface-box 18/21M Idea grey	12/12	154	1-5
09971.01	Square surface-box 1-2M white	20/20	148	1-5
09971.A	Square surface-box 1-2M ivory	20/20	148	1-4-7-9
09975.01	Surface-box 3M white	20/20	148	1-5
09975.A	Surface-box 3M ivory	20/20	148	1-4-6-8-10
09976.04	Surface-box 30mm height 3M Idea white	5/5	148	1
09976.14	Surface-box 30mm height 3M Idea grey	5/5	148	1
10490	12V incandescent signalling unit white	50/50	142	
10491	24V incandescent signalling unit white	50/50	142	
10492	110V neon signalling unit red	50/50	142	
10492.AZ	110V fluorescent signalling unit blue	50/50	142	
10492.V	110V fluorescent signalling unit green	50/50	142	
10493	250V neon signalling unit red	50/50	142	7
10493.AZ	250V fluorescent signalling unit blue	50/50	142	7
10493.V	250V fluorescent signalling unit green	50/50	142	7
13023	IP40 enclosure - 2M Idea/sp.M 8000 grey	75/75	163	1-4-7-9
13023.A	IP40 enclosure - 2M Idea/sp.M 8000 ivory	75/75	163	1-4-7-9
13033	IP40 enclosure - 3M Idea/8000 sp.M grey	45/45	163	1-4-7-9
13033.A	IP40 enclosure - 3M Idea/8000 sp.M ivory	45/45	163	1-4-7-9
13045	IP40 enclosure - 4M Idea/sp.M 8000 grey	40/40	163	1-4-7-9
13045.A	IP40 enclosure - 4M Idea/sp.M 8000 ivory	40/40	163	1-4-7-9
13523	IP40 enclosure - 2M Idea/sp.M 8000 grey	60/60	163	1
13533	IP40 enclosure - 3M Idea/sp.M 8000 grey	39/39	163	1
13545	IP40 enclosure - 4M Idea/sp.M 8000 grey	30/30	163	1
13733.Q	IP55 cover - 3M Idea/sp.M 8000 grey	20/20	163	1
13733.Q.A	IP55 cover - 3M Idea/sp.M 8000 ivory	20/20	163	1
13745.Q	IP55 cover - 4M Idea/sp.M 8000 grey	10/10	163	1
13745.Q.A	IP55 cover - 4M Idea/sp.M 8000 ivory	10/10	163	1
14770	E10 10x28 mm 12V 2W incand.lamp white	75/75	142	
14771	E10 10x28mm 24V 2W incand.lamp white	75/75	142	
14772	120V pre-wired neon signalling unit	100/100	142	1-4-6
14773	230V pre-wired neon signalling unit	100/100	142	1-4-6
14774	E10 10x28mm 12V 3W incand.lamp white	75/75	142	
14775	E10 10x28mm 24V 3W incand.lamp white	75/75	142	
14776	E10 10x28mm 130V 2,6W incand.lamp white	75/75	143	
14777	E10 10x28mm 260V 3W incand.lamp white	75/75	143	
14778	E10 10x28mm 110V 0,5W neon lamp red	75/75	142	
14779	E10 10x28mm 230V 0,5W neon lamp red	75/75	142	
16000	1P 10AX 1-way switch grey	50/50	17	1-4-6-8-10-14-19-23
16000.B	1P 10AX 1-way switch white	50/50	17	1-4-6-8-10-14-19-23
16001	1P 16AX 1-way switch grey	50/50	17	1-4-6-8-10-14-19-23
16001.B	1P 16AX 1-way switch white	50/50	17	1-4-6-8-10-14-19-23
16001.F	1P 16AX 1-way switch luminescent grey	20/20	17	1-4-6-8-10-14-19-23
16001.F.B	1P 16AX 1-way switch luminescent white	20/20	17	1-4-6-8-10-14-19-23
16004	1P 10AX 2-way switch grey	50/50	19	1-4-6-8-10-14-19-23
16004.B	1P 10AX 2-way switch white	50/50	19	1-4-6-8-10-14-19-23
16005	1P 16AX 2-way switch grey	50/50	19	1-4-6-8-10-14-19-23
16005.B	1P 16AX 2-way switch white	50/50	19	1-4-6-8-10-14-19-23
16005.F	1P 16AX 2-way switch luminescent grey	20/20	19	1-4-6-8-10-14-19-23
16005.F.B	1P 16AX 2-way switch luminescent white	20/20	19	1-4-6-8-10-14-19-23
16013	1P 16AX reversing switch grey	50/50	21	1-4-6-8-10-14-19-23
16013.B	1P 16AX reversing switch white	50/50	21	1-4-6-8-10-14-19-23
16013.F	1P16AX reversing switch luminescent grey	20/20	21	1-4-6-8-10-14-19-23

Article	Description	Pack quantity	Page	Marks (See the marks table page 166)
16013.F.B	1P16AXreversing switch luminescent white	20/20	21	1-4-6-8-10-14-19-23
16016	2P 16AX 1-way switch grey	20/20	19	1-4-6-8-10-14-19-23
16016.B	2P 16AX 1-way switch white	20/20	19	1-4-6-8-10-14-19-23
16016.F	2P 16AX 1-way switch luminescent grey	20/20	19	1-4-6-8-10-14-19-23
16016.F.B	2P 16AX 1-way switch luminescent white	20/20	19	1-4-6-8-10-14-19-23
16021	1P 16AX 1-way switch luminous grey	20/20	17	1-4-6-8-10-14-19-23
16021.B	1P 16AX 1-way switch luminous white	20/20	17	1-4-6-8-10-14-19-23
16021.G	1P 16AX 1-way switch luminous 3M grey	20/20	17	1-4-6-8-10-14-19-23
16021.G.B	1P 16AX 1-way switch luminous 3M white	20/20	17	1-4-6-8-10-14-19-23
16021.M	1P 16AX 1-way switch luminous 2M grey	20/20	17	1-4-6-8-10-14-20-23
16021.M.B	1P 16AX 1-way switch luminous 2M white	20/20	17	1-4-6-8-10-14-20-23
16025	1P 16AX 2-way switch luminous grey	20/20	19	1-4-6-8-10-14-19-23
16025.B	1P 16AX 2-way switch luminous white	20/20	19	1-4-6-8-10-14-19-23
16025.G	1P 16AX 2-way switch luminous 3M grey	20/20	19	1-4-6-8-10-14-19-23
16025.G.B	1P 16AX 2-way switch luminous 3M white	20/20	19	1-4-6-8-10-14-19-23
16025.M	1P 16AX 2-way switch luminous 2M grey	20/20	19	1-4-6-8-10-14-19-23
16025.M.B	1P 16AX 2-way switch luminous 2M white	20/20	19	1-4-6-8-10-14-20-23
16036	2P 16AX 1-way switch luminous grey	20/20	19	1-4-6-8-10-14-19-23
16036.B	2P 16AX 1-way switch luminous grey	20/20	19	1-4-6-8-10-14-19-23
16080	1P NO 10A push general symb. grey	50/50	21	1-4-6-8-10-14-19-23
16080.A	1P NO 10A push maid symb. grey	20/20	21	1-4-6-8-10-14-19-23
16080.A.B	1P NO 10A push maid symb. white	20/20	21	1-4-6-8-10-14-19-23
16080.A.F	1P NO 10A push maid symb. lumt grey	20/20	23	1-4-6-8-10-14-19-23
16080.A.F.B	1P NO 10A push maid symb. lumt white	20/20	23	1-4-6-8-10-14-19-23
16080.B	1P NO 10A push general symb. white	50/50	21	1-4-6-8-10-14-19-23
16080.C	1P NO 10A push bell symb. grey	50/50	23	1-4-6-8-10-14-19-23
16080.C.B	1P NO 10A push bell symb. white	50/50	23	1-4-6-8-10-14-19-23
16080.C.F	1P NO 10A push bell symb. lumt grey	20/20	23	1-4-6-8-10-14-19-23
16080.C.F.B	1P NO 10A push bell symb. lumt white	20/20	23	1-4-6-8-10-14-19-23
16080.E	1P NO 10A push waiter symb. grey	20/20	21	1-4-6-8-10-14-19-23
16080.E.B	1P NO 10A push waiter symb. white	20/20	21	1-4-6-8-10-14-19-23
16080.E.F	1P NO 10A push waiter symb. lumt grey	20/20	23	1-4-6-8-10-14-19-23
16080.E.F.B	1P NO 10A push waiter symb. lumt white	20/20	23	1-4-6-8-10-14-19-23
16080.F	1P NO 10A push general symb. lumt grey	20/20	21	1-4-6-8-10-14-19-23
16080.F.B	1P NO 10A push general symb. lumt white	20/20	21	1-4-6-8-10-14-19-23
16080.P	1P NO 10A push key symbol grey	20/20	23	1-4-6-8-10-14-19-23
16080.P.B	1P NO 10A push key symbol white	20/20	23	1-4-6-8-10-14-19-23
16080.P.F	1P NO 10A push key symbol lumt grey	20/20	23	1-4-6-8-10-14-19-23
16080.P.F.B	1P NO 10A push key symbol lumt white	20/20	23	1-4-6-8-10-14-19-23
16080.V	1P NO 10A push valet symb. grey	20/20	21	1-4-6-8-10-14-19-23
16080.V.B	1P NO 10A push valet symb. white	20/20	21	1-4-6-8-10-14-19-23
16080.V.F	1P NO 10A push valet symb. lumt grey	20/20	23	1-4-6-8-10-14-19-23
16080.V.F.B	1P NO 10A push valet symb. lumt white	20/20	23	1-4-6-8-10-14-19-23
16081	1P NO 10A push light symb. grey	50/50	23	1-4-6-8-10-14-19-23
16081.B	1P NO 10A push light symb. white	50/50	23	1-4-6-8-10-14-19-23
16081.F	1P NO 10A push light symb. lumt grey	20/20	23	1-4-6-8-10-14-19-23
16081.F.B	1P NO 10A push light symb. lumt white	20/20	23	1-4-6-8-10-14-19-23
16083	1P NC 10A cord-operated push grey	20/20	23	1
16083.B	1P NC 10A cord-operated push white	20/20	23	1
16084	1P NO 10A cord-operated push grey	20/20	23	1-4-6-8-10-14-20-23
16084.B	1P NO 10A cord-operated push white	20/20	23	1-4-6-8-10-14-20-23
16090	1P NO 10A push general symb. lums grey	20/20	21	1-4-6-8-10-14-19-23
16090.B	1P NO 10A push general symb. lums white	20/20	21	1-4-6-8-10-14-19-23
16090.G	1P NO 10A push general symb.lums 3M grey	20/20	21	1-4-7-9-14-19-23
16090.G.B	1PNO 10A push general symb.lums 3M white	20/20	21	1-4-7-9-14-19-23
16090.M	1P NO 10A push general symb.lums 2M grey	20/20	21	1-4-7-9-14-20-23
16090.M.B	1PNO 10A push general symb.lums 2M white	20/20	21	1-4-7-9-14-20-23
16092	1P NC 10A push general symb.lums grey	20/20	25	1-4-7-9-14-20-23
16092.B	1P NC 10A push general symb.lums white	20/20	25	1-4-7-9-14-20-23
16093	1P 10A change-over push luminous grey	20/20	25	1-4-9-15-23
16093.B	1P 10A change-over push luminous white	20/20	25	1-4-9-15-23
16101	1P NO 16A push grey	20/20	25	1-4-6-8-10-14-20-23
16101.B	1P NO 16A push white	20/20	25	1-4-6-8-10-14-20-23
16104	1P NC 16A push grey	20/20	25	1-4-6-8-10-14-20-23
16104.B	1P NC 16A push white	20/20	25	1-4-6-8-10-14-20-23
16107	1P NO 16A push +NC contact grey	20/20	25	1-4-6-8-10-14-20-23
16107.B	1P NO 16A push +NC contact white	20/20	25	1-4-6-8-10-14-20-23
16110	1P NC 16A push +NO contact grey	20/20	25	1-4-6-8-10-14-20-23
16110.B	1P NC 16A push +NO contact white	20/20	25	1-4-6-8-10-14-20-23
16121	2 1P NO 10A pushes grey	20/20	25	1-4-6-8-10-14-20-23
16121.B	2 1P NO 10A pushes white	20/20	25	1-4-6-8-10-14-20-23
16126.A	1P NO 10A push +orange indicator grey	20/20	25	1-4-6-8-10-14-20-23
16126.A.B	1P NO 10A push +orange indicator white	20/20	25	1-4-6-8-10-14-20-23
16126.B	1P NO 10A push +white indicator grey	20/20	25	1-4-6-8-10-14-20-23

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Article	Description	Pack quantity	Page	Marks (See the marks table page 166)
16126.B.B	1P NO 10A push +white indicator white	20/20	25	1-4-6-8-10-14-20-23
16126.R	1P NO 10A push +red indicator grey	20/20	25	1-4-6-8-10-14-20-23
16126.R.B	1P NO 10A push +red indicator white	20/20	25	1-4-6-8-10-14-20-23
16126.V	1P NO 10A push +green indicator grey	20/20	25	1-4-6-8-10-14-20-23
16126.V.B	1P NO 10A push +green indicator white	20/20	25	1-4-6-8-10-14-20-23
16131	1P NO+1P NC 16AX 1-way switch grey	20/20	25	1-4-6-8-10-14-20-23
16131.B	1P NO+1P NC 16AX 1-way switch white	20/20	25	1-4-6-8-10-14-20-23
16140	1P 10AX 2-way switch grey	20/20	29	1-4-6-8-10-14-20-23
16140.B	1P 10AX 2-way switch white	20/20	29	1-4-6-8-10-14-20-23
16145	2P 10AX 2-way switch grey	20/20	29	1-4-6-8-10-14-20-23
16145.B	2P 10AX 2-way switch white	20/20	29	1-4-6-8-10-14-20-23
16150	1P 10A 2-way push grey	20/20	29	1-4-6-8-10-14-20-23
16150.B	1P 10A 2-way push white	20/20	29	1-4-6-8-10-14-20-23
16155	2P 10A 2-way push grey	20/20	29	1-4-6-8-10-14-20-23
16155.B	2P 10A 2-way push white	20/20	29	1-4-6-8-10-14-20-23
16160	1P 16AX 1-way switch +key grey	20/20	29	1-4-6-8-10-14-20-23
16160.B	1P 16AX 1-way switch +key white	20/20	29	1-4-6-8-10-14-20-23
16160.CU	1P 16AX 1-way switch +unifkey grey	20/20	29	1-4-6-8-10-14-20-23
16160.CU.B	1P 16AX 1-way switch +unifkey white	20/20	29	1-4-6-8-10-14-20-23
16160.S	1P 16AX 1-way switch +key in off grey	20/20	29	1-4-6-8-10-14-20-23
16160.S.B	1P 16AX 1-way switch +key in off white	20/20	29	1-4-6-8-10-14-20-23
16160.S.CU	1P16AX 1-way switch+unifkey in off grey	20/20	29	1-4-6-8-10-14-20-23
16160.S.CU.B	1P16AX 1-way switch+unifkey in off white	20/20	29	1-4-6-8-10-14-20-23
16165	2P 16AX 1-way switch +key grey	20/20	29	1-4-6-8-10-14-20-23
16165.B	2P 16AX 1-way switch +key white	20/20	29	1-4-6-8-10-14-20-23
16165.CU	2P 16AX 1-way switch +unifkey grey	20/20	29	1-4-6-8-10-14-20-23
16165.CU.B	2P 16AX 1-way switch +unifkey white	20/20	29	1-4-6-8-10-14-20-23
16165.S	2P 16AX 1-way switch +key in off grey	20/20	29	1-4-6-8-10-14-20-23
16165.S.B	2P 16AX 1-way switch +key in off white	20/20	29	1-4-6-8-10-14-20-23
16165.S.CU	2P16AX 1-way switch+unifkey in off grey	20/20	29	1-4-6-8-10-14-20-23
16165.S.CU.B	2P16AX 1-way switch+unifkey in off white	20/20	29	1-4-6-8-10-14-20-23
16168	16AX NO+NC 1-way switch +key grey	20/20	29	1-4-6-8-10-14-20-23
16168.B	16AX NO+NC 1-way switch +key white	20/20	29	1-4-6-8-10-14-20-23
16168.CU	16AX NO+NC 1-way switch +unifkey grey	20/20	29	1-4-6-8-10-14-20-23
16168.CU.B	16AX NO+NC 1-way switch +unifkey white	20/20	29	1-4-6-8-10-14-20-23
16180	1P NO 16A push +key grey	20/20	29	1-4-6-8-10-14-20-23
16180.B	1P NO 16A push +key white	20/20	29	1-4-6-8-10-14-20-23
16180.CU	1P NO 16A push +unifkey grey	20/20	29	1-4-6-8-10-14-20-23
16180.CU.B	1P NO 16A push +unifkey white	20/20	29	1-4-6-8-10-14-20-23
16185	2P NO 16A push +key grey	20/20	29	1-4-6-8-10-14-20-23
16185.B	2P NO 16A push +key white	20/20	29	1-4-6-8-10-14-20-23
16185.CU	2P NO 16A push +unifkey grey	20/20	29	1-4-6-8-10-14-20-23
16185.CU.B	2P NO 16A push +unifkey white	20/20	29	1-4-6-8-10-14-20-23
16188	NO+NC 2-way push +key grey	20/20	29	1-4-6-8-10-14-20-23
16188.B	NO+NC 2-way push +key white	20/20	29	1-4-6-8-10-14-20-23
16188.CU	NO+NC 2-way push +unifkey grey	20/20	29	1-4-6-8-10-14-20-23
16188.CU.B	NO+NC 2-way push +unifkey white	20/20	29	1-4-6-8-10-14-20-23
16190	1P NO 10A 12-24V name-plate push grey	20/20	23	
16190.B	1P NO 10A 12-24V name-plate push white	20/20	23	
16201	2P+E 10A P11 outlet grey	500/50	35	1-7
16201.B	2P+E 10A P11 outlet white	50/50	35	1-7
16202	2P+E 16A P17 outlet grey	50/50	35	1-7
16202.B	2P+E 16A P17 outlet white	50/50	35	1-7
16203	2P+E 16A P17/11 outlet grey	500/50	35	1-7
16203.B	2P+E 16A P17/11 outlet white	50/50	35	1-7
16203.R	2P+E 16A P17/11 outlet red	50/50	37	1-7
16205	2P+E 20A outlet grey	20/20	35	7
16205.B	2P+E 20A outlet white	20/20	35	7
16208	2P+E 16A German outlet grey	20/20	45	1-6-8-10-14
16208.B	2P+E 16A German outlet white	20/20	45	1-6-8-10-14
16209	2P+E 16A P30 outlet grey	20/20	35	1-6-8-10
16209.A	2P+E 16A P30 outlet orange	20/20	37	1-6-8-10
16209.B	2P+E 16A P30 outlet white	20/20	35	1-6-8-10
16209.R	2P+E 16A P30 outlet red	20/20	37	1-6-8-10
16209.V	2P+E 16A P30 outlet green	20/20	37	1-6-8-10
16210	2P+E 16A universal outlet grey	20/20	35	7
16210.B	2P+E 16A universal outlet white	20/20	35	7
16210.R	2P+E 16A universal outlet red	20/20	37	7
16211	2P+E 16A universal outlet grey	20/20	35	
16211.B	2P+E 16A universal outlet white	20/20	35	
16212	2P+E 10-16A French outlet grey	20/20	45	4-11-13
16212.B	2P+E 10-16A French outlet white	20/20	45	4-11-13
16213	2P+E French outlet +block-device grey	20/20	39	
16213.B	2P+E French outlet +block-device white	20/20	39	

Article	Description	Pack quantity	Page	Marks (See the marks table page 166)
16213.R	2P+E French outlet +block-device red	20/20	39	
* 16225	2P+E 10A Swiss outlet 12 type grey	20/20	45	5
* 16225.B	2P+E 10A Swiss outlet 12 type white	20/20	45	5
* 16226	2P+E 10A Swiss outlet 13 type grey	20/20	45	5
* 16226.B	2P+E 10A Swiss outlet 13 type white	20/20	45	5
* 16232	2P 15A USA+EU ø4mm outlet grey	20/20	45	
* 16232.B	2P 15A USA+EU ø4mm outlet white	20/20	45	
* 16233	2P 15A USA+EU ø4,8mm outlet grey	20/20	45	
* 16233.B	2P 15A USA+EU ø4,8mm outlet white	20/20	45	
* 16245	2P+E 15A USA+SASO outlet grey	20/20	47	19
* 16245.B	2P+E 15A USA+SASO outlet white	20/20	47	19
* 16246	Two 2P+E 15A USA+SASO outlets grey	20/20	47	19
* 16246.B	Two 2P+E 15A USA+SASO outlets white	20/20	47	19
* 16247	2P+E 15A USA outlet grey	20/20	47	
* 16247.B	2P+E 15A USA outlet white	20/20	47	
* 16250	2P+E 10A Argentinian outlet grey	20/20	47	20
* 16250.B	2P+E 10A Argentinian outlet white	20/20	47	20
* 16251	2P+E 10A Chinese outlet grey	20/20	47	15
* 16251.B	2P+E 10A Chinese outlet white	20/20	47	15
16258	2P+E 16A English outlet grey	20/20	45	
16258.B	2P+E 16A English outlet white	20/20	45	
16260	2P+E 13A English outlet grey	20/20	45	
16260.B	2P+E 13A English outlet white	20/20	45	
16271	2P+E 10A P11 outlet+C10 c.b. grey	5/5	41	
16271.B	2P+E 10A P11 outlet+C10 c.b. white	5/5	41	
16273	2P+E 16A P17/11 outlet+C10 c.b. grey	5/5	41	
16273.B	2P+E 16A P17/11 outlet+C16 c.b. white	5/5	41	
16276	2P+E 16A P30 outlet+C16 c.b. grey	5/5	41	
16276.B	2P+E 16A P30 outlet+C16 c.b. white	5/5	41	
16281	2P+E 10A P11 outlet+C10 r.c.b.o. grey	5/5	41	
16281.B	2P+E 10A P11 outlet+C10 r.c.b.o. white	5/5	41	
16283	2P+E 16A P17/11 outlet+C16 r.c.b.o. grey	5/5	41	
16283.B	2P+E 16A P17/11 outlet+C16 r.c.b.o. white	5/5	41	
16286	2P+E 16A P30 outlet+C16 r.c.b.o. grey	1/1	43	
16286.B	2P+E 16A P30 outlet+C16 r.c.b.o. white	1/1	43	
16290	230V shaver supply unit grey	1/1	43	1-7
16290.B	230V shaver supply unit white	1/1	43	1-7
16300	2P 6A 24V SELV outlet grey	20/20	49	
16300.B	2P 6A 24V SELV outlet white	20/20	49	
16301	Polarized 2P 6A 24V SELV outlet grey	20/20	49	
16301.B	Polarized 2P 6A 24V SELV outlet white	20/20	49	
* 16305	2P 10A outlet grey	20/20	47	
* 16305.B	2P 10A outlet white	20/20	47	
* 16305.R	2P 10A outlet radio symbol grey	20/20	47	
* 16305.R.B	2P 10A outlet radio symbol white	20/20	47	
* 16305.T	2P 10A outlet telephone symbol grey	20/20	47	
* 16305.T.B	2P 10A outlet telephone symbol white	20/20	47	
* 16305.TV	2P 10A outlet television symbol grey	20/20	47	
* 16305.TV.B	2P 10A outlet television symbol white	20/20	47	
16306.01	TV-RD-SAT single-conn.male out.1dB g	20/20	63	1-7
16306.01.B	TV-RD-SAT single-conn.male out.1dB w	20/20	63	1-7
16306.10	TV-RD-SAT through-line male out.10dB g	20/20	63	1-7
16306.10.B	TV-RD-SAT through-line male out.10dB w	20/20	63	1-7
16306.15	TV-RD-SAT through-line male out.15dB g	20/20	63	1-7
16306.15.B	TV-RD-SAT through-line male out.15dB w	20/20	63	1-7
16306.20	TV-RD-SAT through-line male out.20dB g	20/20	63	1-7
16306.20.B	TV-RD-SAT through-line male out.20dB w	20/20	63	1-7
16310.05	TV-RD-SAT single-conn.out.5dB 2outs g	10/10	65	1-7
16310.05.B	TV-RD-SAT single-conn.out.5dB 2outs w	10/10	65	1-7
16310.10	TV-RD-SAT through-line.out.10dB 2outs g	10/10	65	1-7
16310.10.B	TV-RD-SAT through-line.out.10dB 2outs w	10/10	65	1-7
16310.15	TV-RD-SAT through-line.out.15dB 2outs g	10/10	65	1-7
16310.15.B	TV-RD-SAT through-line.out.15dB 2outs w	10/10	65	1-7
16310.20	TV-RD-SAT through-line.out.20dB 2outs g	10/10	65	1-7
16310.20.B	TV-RD-SAT through-line.out.20dB 2outs w	10/10	65	1-7
* 16320	TV ø9,5IEC single conn.outlet grey	50/50	73	7
* 16320.B	TV ø9,5IEC single conn.outlet white	50/50	73	7
* 16320.S	TVø9,5IEC single conn.out.+2cord-grips g	50/50	73	7
* 16320.S.B	TVø9,5IEC single conn.out.+2cord-grips w	50/50	73	7
* 16321	TV ø9,5IEC through-line outlet grey	50/50	73	7
* 16321.B	TV ø9,5IEC through-line outlet white	50/50	73	7
* 16322	TV ø9,5IEC line-end outlet grey	50/50	73	7
* 16322.B	TV ø9,5IEC line-end outlet white	50/50	73	7
16329.V02	TV-RD-SAT1/2 single conn.outlet grey	1/1	69	1-7

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Article	Description	Pack quantity	Page	Marks (See the marks table page 166)
16329.V02.B	TV-RD-SAT1/2 single conn.outlet white	1/1	69	1
16329.V15	TV-RD-SAT1/2 through-line outlet grey	1/1	71	1-7
16329.V15.B	TV-RD-SAT1/2 through-line outlet white	1/1	71	1
16330	75 ohm terminal resistor	50/50	73	7
16331	F type female socket connector grey	10/10	73	1-7
16331.B	F type female socket connector white	10/10	73	1
16332	5P DIN41524 socket connector grey	10/10	49	
16332.B	5P DIN41524 socket connector white	10/10	49	
16335	RJ11 socket connector grey	20/20	49	7
16335.B	RJ11 socket connector white	20/20	49	7
16336	RJ12 socket connector grey	20/20	49	7
16336.B	RJ12 socket connector white	20/20	49	7
16337	RJ45 socket connector grey	20/20	49	7
16337.B	RJ45 socket connector white	20/20	49	7
16338	2 RJ11 socket connectors grey	10/10	49	
16338.B	2 RJ11 socket connectors white	10/10	49	
16345	Polarized 2P 6A 24V SELV outlet grey	50/50	49	
16345.B	Polarized 2P 6A 24V SELV outlet white	50/50	49	
16347	8P French socket connector grey	20/20	49	
16347.B	8P French socket connector white	20/20	49	
16350.C3	BNC RX93 socket connector grey	10/10	57	
16350.C3.B	BNC RX93 socket connector white	10/10	57	
16350.C8	Socket connector for BNC RG58 cable grey	10/10	57	
16350.C8.B	Socket connector for BNC RG58 cable white	10/10	57	
16350.C9	Socket conn.for BNC RG59/62 cable grey	10/10	57	
16350.C9.B	Socket conn.for BNC RG59/62 cable white	10/10	57	
16350.S	Socket conn.for BNC cable soldering grey	10/10	57	
16350.S.B	Socket conn.for BNC cable soldering white	10/10	57	
16352	TWINAX socket connector grey	10/10	57	
16352.B	TWINAX socket connector white	10/10	57	
16355	Thinnet Tap socket conn.for RG58 grey	5/5	59	
16355.B	Thinnet Tap socket conn.for RG58 white	5/5	59	
16356	50 ohm terminal resistor	10/10	59	
16357	RJ45 Pouyet cat.5 UTP outlet grey	10/10	51	7
16357.B	RJ45 Pouyet cat.5 UTP outlet white	10/10	51	7
16357.C	RJ45 Pouyet adaptor grey	20/20	55	7
16357.C.B	RJ45 Pouyet adaptor white	20/20	55	7
16358.1	RJ45 Avaya cat.5e UTP outlet grey	10/10	51	7
16358.1.B	RJ45 Avaya cat.5e UTP outlet white	10/10	51	7
16358.5	RJ45 cat.5 AMP FTP T568B outlet grey	10/10	51	7
16358.5.B	RJ45 cat.5 AMP FTP T568B outlet white	10/10	51	7
16358.6	RJ45 AMP cat.5e UTP outlet grey	10/10	51	7
16358.6.B	RJ45 AMP cat.5e UTP outlet white	10/10	51	7
16358.7	RJ45 AMP cat.5e FTP outlet grey	10/10	51	
16358.7.B	RJ45 AMP cat.5e FTP outlet white	10/10	51	
16358.8	RJ45 Netsafe cat.5e UTP outlet grey	10/10	51	
16358.8.B	RJ45 Netsafe cat.5e UTP outlet white	10/10	51	
16358.C	RJ45 AMP Avaya adaptor grey	20/20	55	7
16358.C.B	RJ45 AMP Avaya adaptor white	20/20	55	7
16359.1	RJ45 Netsafe cat.5e UTP 110 outlet grey	10/10	51	
16359.1.B	RJ45 Netsafe cat.5e UTP 110 outlet white	10/10	51	
16359.2	RJ45 Netsafe cat.5e FTP 110 outlet grey	10/10	51	
16359.2.B	RJ45 Netsafe cat.5e FTP 110 outlet white	10/10	51	
16359.3	RJ45 Netsafe cat.6 UTP 110 outlet grey	10/10	51	
16359.3.B	RJ45 Netsafe cat.6 UTP 110 outlet white	10/10	51	
16361	9P SUB D socket connector grey	10/10	57	
16361.B	9P SUB D socket connector white	10/10	57	
16362	15P SUB D socket connector grey	10/10	57	
16362.B	15P SUB D socket connector white	10/10	57	
16363	25P SUB D socket connector grey	10/10	57	
16363.B	25P SUB D socket connector white	10/10	57	
16364.1	RJ45 Panduit cat.5e UTP outlet grey	10/10	53	7
16364.1.B	RJ45 Panduit cat.5e UTP outlet white	10/10	53	7
16364.2	RJ45 Panduit cat.5e FTP outlet grey	10/10	53	7
16364.2.B	RJ45 Panduit cat.5e FTP outlet white	10/10	53	7
16364.C	MINI-COM panduit adaptor grey	20/20	55	7
16364.C.B	MINI-COM panduit adaptor white	20/20	55	7
16365.1	RJ45 R&M Freenet cat.5e UTP outlet grey	10/10	53	7
16365.1.B	RJ45 R&M Freenet cat.5e UTP outlet white	10/10	53	7
16365.C	RJ45 R&M IBM adaptor grey	20/20	55	7
16365.C.B	RJ45 R&M IBM adaptor white	20/20	55	7
16366.C	RJ MULTI Infra+ adaptor grey	20/20	55	7
16366.C.B	RJ MULTI Infra+ adaptor white	20/20	55	7
16367.C	RJ45 Infra+ adaptor grey	20/20	55	

Article	Description	Pack quantity	Page	Marks (See the marks table page 166)
16367.C.B	RJ45 Infra+ adaptor white	20/20	55	
16400	12V 50HZ bell grey	20/20	75	7
16400.B	12V 50HZ bell white	20/20	75	7
16401	24V 50HZ bell grey	20/20	75	7
16401.B	24V 50HZ bell white	20/20	75	7
16402	110V 50-60HZ bell grey	20/20	75	3
16402.B	110V 50-60HZ bell white	20/20	75	3
16403	230V 50HZ bell grey	20/20	75	3-7
16403.B	230V 50HZ bell white	20/20	75	3-7
16405	12V 50-60HZ buzzer grey	20/20	75	7
16405.B	12V 50-60HZ buzzer white	20/20	75	7
16406	24V 50-60HZ buzzer grey	20/20	75	7
16406.B	24V 50-60HZ buzzer white	20/20	75	7
16407	110V 50-60HZ buzzer grey	20/20	75	3-19
16407.B	110V 50-60HZ buzzer white	20/20	75	3-19
16408	230V 50-60HZ buzzer grey	20/20	75	3-7
16408.B	230V 50-60HZ buzzer white	20/20	75	3-7
16420	3-sound-sequence electronic chime grey	5/5	75	
16420.B	3-sound-sequence electronic chime white	5/5	75	
16431	Indicator unit white diffuser grey	20/20	77	
16431.A	Indicator unit orange diffuser grey	20/20	77	
16431.A.B	Indicator unit orange diffuser white	20/20	77	
16431.B	Indicator unit white diffuser white	20/20	77	
16431.R	Indicator unit red diffuser grey	20/20	77	
16431.R.B	Indicator unit red diffuser white	20/20	77	
16431.V	Indicator unit green diffuser grey	20/20	77	
16431.V.B	Indicator unit green diffuser white	20/20	77	
16432.AB	Double ind.unit orange-white diff. grey	20/20	77	
16432.AB.B	Double ind.unit orange-white diff. white	20/20	77	
16432.AR	Double ind.unit orange-red diff. grey	20/20	77	
16432.AR.B	Double ind.unit orange-red diff. white	20/20	77	
16432.AV	Double ind.unit orange-green diff. grey	20/20	77	
16432.AV.B	Double ind.unit orange-green diff. white	20/20	77	
16432.BR	Double ind.unit white-red diff. grey	20/20	77	
16432.BR.B	Double ind.unit white-red diff. white	20/20	77	
16432.BV	Double ind.unit white-green diff. grey	20/20	77	
16432.BV.B	Double ind.unit white-green diff. white	20/20	77	
16432.RV	Double ind.unit red-green diff. grey	20/20	77	
16432.RV.B	Double ind.unit red-green diff. white	20/20	77	
16433	Prismatic ind.unit white diffuser grey	10/10	79	
16433.A	Prismatic ind.unit orange diffuser grey	10/10	79	
16433.A.B	Prismatic ind.unit orange diffuser white	10/10	79	
16433.B	Prismatic ind.unit white diffuser white	10/10	79	
16433.R	Prismatic ind.unit red diffuser grey	10/10	79	
16433.R.B	Prismatic ind.unit red diffuser white	10/10	79	
16433.V	Prismatic ind.unit green diffuser grey	10/10	79	
16433.V.B	Prismatic ind.unit green diffuser white	10/10	79	
16440	Emergency lighting fitting 230V	1/1	87	1
16441	Emergency lighting fitting 120V	1/1	87	
16445	Step marker lamp 12-24V SELV grey	5/5	81	
16445.B	Step marker lamp 12-24V SELV white	5/5	81	
16446	Prismatic ind.unit white diffuser 230V 3W	1/1	79	
16447	Lighting fitting 120V	1/1	83	
16448	Lighting fitting 230V	1/1	83	17
16449	TORCIA+charge-outlet 120V grey	10/10	85	
16449.B	TORCIA+charge-outlet 120V white	10/10	85	
16450	TORCIA+charge-outlet 230V grey	10/10	85	
16450.B	TORCIA+charge-outlet 230V white	10/10	85	
16452	Smart card for 16451/08435	5/5	129	
16452.H	Smart card for 16453	5/5	129	
16452.S	ISO card	10/10	129	
16455	Electronic admittance request unit grey	1/1	125	
16455.B	Electronic admittance request unit white	1/1	125	
16456	Electronic reply unit grey	1/1	125	
16456.B	Electronic reply unit white	1/1	125	
16460	1P 16A 250V fuse carrier grey	20/20	89	
16460.B	1P 16A 250V fuse carrier white	20/20	89	
16461	Smart card reader/programmer grey	1/1	129	
16461.B	Smart card reader/programmer white	1/1	129	7
16464	Electronic badge switch grey	1/1	129	7
16464.B	Electronic badge switch white	1/1	129	
16481	SCUDO transient voltage suppressor grey	20/20	89	
16481.B	SCUDO transient voltage suppressor white	20/20	89	
16504.06	1P C6 c.b. 120-230V grey	10/10	89	1

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Article	Description	Pack quantity	Page	Marks (See the marks table page 166)
16504.06.B	1P C6 c.b. 120-230V white	10/10	89	1
16504.10	1P C10 c.b. 120-230V grey	10/10	89	1
16504.10.B	1P C10 c.b. 120-230V white	10/10	89	1
16504.16	1P C16 c.b. 120-230V grey	10/10	89	1
16504.16.B	1P C16 c.b. 120-230V white	10/10	89	1
16505.06	1P+N C6 c.b. 120-230V grey	10/10	89	1
16505.06.B	1P+N C6 c.b. 120-230V white	10/10	89	1
16505.10	1P+N C10 c.b. 120-230V grey	10/10	89	1
16505.10.B	1P+N C10 c.b. 120-230V white	10/10	89	1
16505.16	1P+N C16 c.b. 120-230V grey	10/10	89	1
16505.16.B	1P+N C16 c.b. 120-230V white	10/10	89	1
16511.06	1P+N C6 r.c.b.o. 120-230V 10mA grey	5/5	91	
16511.06.B	1P+N C6 r.c.b.o. 120-230V 10mA white	5/5	91	
16511.10	1P+N C10 r.c.b.o. 120-230V 10mA grey	5/5	91	
16511.10.B	1P+N C10 r.c.b.o. 120-230V 10mA white	5/5	91	
16511.16	1P+N C16 r.c.b.o. 120-230V 10mA grey	5/5	91	
16511.16.6	1P+N C16 r.c.b.o. 120-230V 6mA grey	5/5	91	
16511.16.6.B	1P+N C16 r.c.b.o. 120-230V 10mA white	5/5	91	
16511.16.B	1P+N C16 r.c.b.o. 120-230V 6mA white	5/5	91	
16540	Blank module grooved front grey	100/100	17	1-4-6-8-10
16540.B	Blank module grooved front white	100/100	17	1-4-6-8-10
16541	Cable outlet +cord-grip grey	20/20	17	1-4-6-8-10
16541.B	Cable outlet +cord-grip white	20/20	17	1-4-6-8-10
16542	Blank module smooth front grey	100/100	17	1-4-6-8-10
16542.B	Blank module smooth front white	100/100	17	1-4-6-8-10
16544	Adaptor for electronic key grey	20/20	99	
16544.B	Adaptor for electronic key white	20/20	99	
16550.105	Electronic transformer 20-105W	1/1	105	9
16550.60	Electronic transformer 10-60W	1/1	105	9
16556	Dimmer 230V 60-900W/60-300VA grey	20/20	103	
16556.B	Dimmer 230V 60-900W/60-300VA white	20/20	103	
16557	Dimmer 120V 30-500W/30-300VA grey	20/20	103	
16557.B	Dimmer 120V 30-500W/30-300VA white	20/20	103	
16558	1P 6(2)A 250V 4-pos. slide switch grey	10/10	107	1
16558.B	1P 6(2)A 250V 4-pos. slide switch white	10/10	107	1
16560	Dimmer 230V 100-500W grey	20/20	101	1-7
16560.B	Dimmer 230V 100-500W bianco	20/20	101	1-7
16561	Dimmer 230V 60-500W/VA +push grey	5/5	103	1-7
16561.B	Dimmer 230V 60-500W/VA +push white	5/5	103	1-7
16562	Dimmer 230V 60-400VA +push grey	5/5	101	1-7
16562.B	Dimmer 230V 60-400VA +push white	5/5	101	1-7
16563	Dimmer 230V 100-500W +push grey	10/10	101	1-7
16563.B	Dimmer 230V 100-500W +push white	10/10	101	1-7
16565	Dimmer 230V 25-300W/VA +push grey	10/10	103	
16565.B	Dimmer 230V 25-300W/VA +push white	10/10	103	
16566	IR receiver grey	10/10	133	
16566.B	IR receiver white	10/10	133	
16567	Dimmer 230V 25-300W/VA+IR receiver grey	10/10	133	
16567.B	Dimmer 230V 25-300W/VA+IR receiver white	10/10	133	
16570.SZ	Spacing base+mounting frame grey	10/10	131	
16570.SZ.B	Spacing base+mounting frame white	10/10	131	
16570.T	IR remote control grey	5/5	131	
16570.T.B	IR remote control white	5/5	131	
16572	Electronic time delay switch 230V grey	10/10	105	
16572.B	Electronic time delay switch 230V white	10/10	105	
16574	Electronic alarm clock 110-230V grey	1/1	115	
16574.B	Electronic alarm clock 110-230V white	1/1	115	
16575	Chronothermostat 120-230V grey	1/1	109	
16575.B	Chronothermostat 120-230V white	1/1	109	
16576	Chronothermostat with battery grey	1/1	109	
16576.B	Chronothermostat with battery white	1/1	109	
16580	Thermostat for heating 230V grey	1/1	107	
16580.B	Thermostat for heating 230V white	1/1	107	
16581	Thermostat for heat./air cond.230V grey	1/1	107	
16581.B	Thermostat for heat./air cond.230V white	1/1	107	
16582	Programmer 120-230V 1-channel grey	1/1	111	
16582.B	Programmer 120-230V 1-channel white	1/1	111	
16584	Programmer 110-230V 1-channel grey	1/1	113	
16584.B	Programmer 110-230V 1-channel white	1/1	113	
16585	Programmer 110-230V 2-channel grey	1/1	113	
16585.B	Programmer 1120-230V 2-channel white	1/1	113	
16588	CO detector 12V grey	1/1	95	
16588.B	CO detector 12V white	1/1	95	
16589	Smoke detector 12V grey	1/1	97	

Article	Description	Pack quantity	Page	Marks (See the marks table page 166)
16589.B	Smoke detector 12V white	1/1	97	
16590	NO 3/4 solenoid valve	1/1	93	
16591	LPG detector 230V grey	1/1	93	2
16591.B	LPG detector 230V white	1/1	93	2
16592	Methane detector 230V grey	1/1	93	2
16592.B	Methane detector 230V white	1/1	93	2
16594	CO detector 230V grey	1/1	95	
16594.B	CO detector 230V white	1/1	95	
16594.S	CO detector 12-24V grey	1/1	95	
16594.S.B	CO detector 12-24V white	1/1	95	
16610.012	1P 10AX r.c.s. +12V 50-60Hz coil grey	20/20	31	1
16610.012.B	1P 10AX r.c.s. +12V 50-60Hz coil white	20/20	31	1
16610.220	1P 10AX r.c.s. +220V 50-60Hz coil grey	20/20	31	1
16610.220.B	1P 10AX r.c.s. +220V 50-60Hz coil white	20/20	31	1
16612.012	1P 10AX 4seq. r.c.s.+12V50-60Hzcoil grey	20/20	31	1
16612.012.B	1P10AX 4seq. r.c.s.+12V50-60Hzcoil white	20/20	31	1
16612.220	1P 10AX 4seq. r.c.s.+220V50-60Hzcoil grey	20/20	31	1
16612.220.B	1P10AX 4seq. r.c.s.+220V50-60Hzcoilwhite	20/20	31	1
16616.012	2P 10AX r.c.s. +12V 50-60Hz coil grey	20/20	31	1
16616.012.B	2P 10AX r.c.s. +12V 50-60Hz coil white	20/20	31	1
16616.220	2P 10AX r.c.s. +220V 50-60Hz coil grey	20/20	31	1
16616.220.B	2P 10AX r.c.s. +220V 50-60Hz coil white	20/20	31	1
16620	IR detector 12Vd.c.SELV for alarms grey	1/1	99	
16620.B	IR detector 12Vd.c.SELV for alarms white	1/1	99	
16620.P	Tamperproof protection for 16620	10/10	99	
16631	IR switch for lighting 230V grey	5/5	33	
16631.B	IR switch for lighting 230V white	5/5	33	
16632	IR switch for lighting 120V grey	5/5	33	
16632.B	IR switch for lighting 120V white	5/5	33	
16643	Set/reset device grey	1/1	27	
16643.B	Set/reset device white	1/1	27	
16652	Clock radio 12V grey	1/1	115	
16652.B	Clock radio 12V white	1/1	115	
16656	Amplified speaker dor clock radio grey	1/1	115	
16656.B	Amplified speaker dor clock radio white	1/1	115	
16661	Stereo central unit 24V grey	1/1	119	
16661.B	Stereo central unit 24V white	1/1	119	
16671	Stereo local control unit 24V grey	1/1	119	
16671.B	Stereo local control unit 24V white	1/1	119	
16681	Amplified diffuser 5W rms grey	1/1	121	
16681.B	Amplified diffuser 5W rms white	1/1	121	
16695	Power supply 230V for sound system grey	1/1	121	
16695.B	Power supply 230V for sound system white	1/1	121	
16713	Mounting frame 3M +screws	200/200	146	1-4-6-8-10
16713.C	Protective cover for 16713	100/100	146	
16714	Mounting frame 4M +screws	20/20	147	1-4-6-8-10
16715	Mounting frame 5M +screws	20/20	147	1-4-6-8-10
16716	Mounting frame 6M +screws	20/20	147	1-4-6-8-10
16718	Mounting frame 12M +screws	10/10	147	1-5
16719	Mounting frame 18M +screws	10/10	147	1-5
16720	Mounting frame +key grey	1/1	145	1-4-6-8-10
16720.B	Mounting frame +key white	1/1	145	1-4-6-8-10
16720.CU	Mounting frame +unifkey grey	20/20	145	1-4-6-8-10
16720.CU.B	Mounting frame +unifkey white	20/20	145	1-4-6-8-10
16720.VT	Frontal lid breakable glass for 16720	20/20	145	
16722	Mounting frame 2M grooved front grey	20/20	145	1-4-6-8-10
16722.B	Mounting frame 2M grooved front white	20/20	145	1-4-6-8-10
16722.L	Mounting frame 2M smooth front grey	20/20	145	1-4-6-8-10
16722.L.B	Mounting frame 2M smooth front white	20/20	145	1-4-6-8-10
16726	Mounting frame 1M for EN50022 rail	20/20	164	1-5
16727	Mounting frame 2M for EN50022 rail	20/20	164	1-5
16733.01	Classica plate 3M metal white	10/10	164	1-4-6-8-10
16733.05	Classica plate 3M metal amaranth	10/10	149	1-4-6-8-10
16733.07	Classica plate 3M metal forest green	10/10	149	1-4-6-8-10
16733.08	Classica plate 3M metal sage green	10/10	149	1-4-6-8-10
16733.10	Classica plate 3M metal ivory	10/10	149	1-4-6-8-10
16733.11	Classica plate 3M metal black	10/10	149	1-4-6-8-10
16733.12	Classica plate 3M metal cobalt blue	10/10	149	1-4-6-8-10
16733.21	Classica plate 3M metal metall.silver	10/10	149	1-4-6-8-10
16733.22	Classica plate 3M metal metall.bronze	10/10	149	1-4-6-8-10
16733.23	Classica plate3M metal metall.anthracite	10/10	149	1-4-6-8-10
16733.24	Classica plate 3M metal metall.titanium	10/10	149	1-4-6-8-10
16733.25	Classica plate 3M metal metall.bordeaux	10/10	149	1-4-6-8-10
16733.26	Classica plate 3M metal metall.powd.blue	10/10	149	1-4-6-8-10



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Article	Description	Pack quantity	Page	Marks (See the marks table page 166)
16733.27	Classica plate 3M metal irid.champagne	10/10	149	1-4-6-8-10
16733.28	Classica plate 3M metal irid.euro blue	10/10	149	1-4-6-8-10
16733.29	Classica plate 3M metal irid.petroleum	10/10	149	1-4-6-8-10
16733.31	Classica plate 3M metal black chrome	10/10	149	1-4-6-8-10
16733.32	Classica plate 3M metal polished gold	10/10	149	1-4-6-8-10
16733.33	Classica plate 3M metal matt gold	10/10	149	1-4-6-8-10
16733.34	Classica plate 3M metal brushed nickel	10/10	149	1-4-6-8-10
16733.36	Classica plate 3M metal chrome	10/10	149	1-4-6-8-10
16733.41	Classica plate 3M metal walnut briar	10/10	149	1-4-6-8-10
16733.42	Classica plate 3M metal cherry briar	10/10	149	1-4-6-8-10
16733.46	Classica plate 3M metal slate grey	10/10	149	1-4-6-8-10
16733.51	Classica plate 3M wood maple	10/10	149	1-5
16733.53	Classica plate 3M wood cherry	10/10	149	1-5
16733.55	Classica plate 3M wood walnut	10/10	149	1-5
16733.56	Classica plate 3M wood wengé	10/10	149	1
16733.57	Classica plate 3M wood teak	10/10	149	1
16733.58	Classica plate 3M wood mahogany	10/10	149	1
16734.01	Classica plate 4M metal white	10/10	153	1-4-6-8-10
16734.05	Classica plate 4M metal amaranth	10/10	153	1-4-6-8-10
16734.07	Classica plate 4M metal forest green	10/10	153	1-4-6-8-10
16734.08	Classica plate 4M metal sage green	10/10	153	1-4-6-8-10
16734.10	Classica plate 4M metal ivory	10/10	153	1-4-6-8-10
16734.11	Classica plate 4M metal black	10/10	153	1-4-6-8-10
16734.12	Classica plate 4M metal cobalt blue	10/10	153	1-4-6-8-10
16734.21	Classica plate 4M metal metall.silver	10/10	153	1-4-6-8-10
16734.22	Classica plate 4M metal metall.bronze	10/10	153	1-4-6-8-10
16734.23	Classica plate4M metal metall.anthracite	10/10	153	1-4-6-8-10
16734.24	Classica plate 4M metal metall.titanium	10/10	153	1-4-6-8-10
16734.25	Classica plate 4M metal metall.bordeaux	10/10	153	1-4-6-8-10
16734.26	Classica plate 4M metal metall.powd.blue	10/10	153	1-4-6-8-10
16734.27	Classica plate 4M metal irid.champagne	10/10	153	1-4-6-8-10
16734.28	Classica plate 4M metal irid.euro blue	10/10	153	1-4-6-8-10
16734.29	Classica plate 4M metal irid.petroleum	10/10	153	1-4-6-8-10
16734.31	Classica plate 4M metal black chrome	10/10	153	1-4-6-8-10
16734.32	Classica plate 4M metal polished gold	10/10	153	1-4-6-8-10
16734.33	Classica plate 4M metal matt gold	10/10	153	1-4-6-8-10
16734.34	Classica plate 4M metal brushed nickel	10/10	153	1-4-6-8-10
16734.36	Classica plate 4M metal chrome	10/10	153	1-4-6-8-10
16734.41	Classica plate 4M metal walnut briar	10/10	153	1-4-6-8-10
16734.42	Classica plate 4M metal cherry briar	10/10	153	1-4-6-8-10
16734.46	Classica plate 4M metal slate grey	10/10	153	1-4-6-8-10
16734.51	Classica plate 4M wood maple	10/10	153	1-5
16734.53	Classica plate 4M wood cherry	10/10	153	1-5
16734.55	Classica plate 4M wood walnut	10/10	153	1-5
16734.56	Classica plate 4M wood wengé	10/10	153	1
16734.57	Classica plate 4M wood teak	10/10	153	1
16734.58	Classica plate 4M wood mahogany	10/10	153	1
16736.01	Classica plate 6M metal white	5/5	153	1-4-6-8-10
16736.05	Classica plate 6M metal amaranth	5/5	153	1-4-6-8-10
16736.07	Classica plate 6M metal forest green	5/5	153	1-4-6-8-10
16736.08	Classica plate 6M metal sage green	5/5	153	1-4-6-8-10
16736.10	Classica plate 6M metal ivory	5/5	153	1-4-6-8-10
16736.11	Classica plate 6M metal black	5/5	153	1-4-6-8-10
16736.12	Classica plate 6M metal cobalt blue	5/5	153	1-4-6-8-10
16736.21	Classica plate 6M metal metall.silver	5/5	153	1-4-6-8-10
16736.22	Classica plate 6M metal metall.bronze	5/5	153	1-4-6-8-10
16736.23	Classica plate6M metal metall.anthracite	5/5	153	1-4-6-8-10
16736.24	Classica plate 6M metal metall.titanium	5/5	153	1-4-6-8-10
16736.25	Classica plate 6M metal metall.bordeaux	5/5	153	1-4-6-8-10
16736.26	Classica plate 6M metal metall.powd.blue	5/5	153	1-4-6-8-10
16736.27	Classica plate 6M metal irid.champagne	5/5	153	1-4-6-8-10
16736.28	Classica plate 6M metal irid.euro blue	5/5	153	1-4-6-8-10
16736.29	Classica plate 6M metal irid.petroleum	5/5	153	1-4-6-8-10
16736.31	Classica plate 6M metal black chrome	5/5	153	1-4-6-8-10
16736.32	Classica plate 6M metal polished gold	5/5	153	1-4-6-8-10
16736.33	Classica plate 6M metal matt gold	5/5	153	1-4-6-8-10
16736.34	Classica plate 6M metal brushed nickel	5/5	153	1-4-6-8-10
16736.36	Classica plate 4M metal chrome	5/5	153	1-4-6-8-10
16736.41	Classica plate 4M metal walnut briar	5/5	153	1-4-6-8-10
16736.42	Classica plate 4M metal cherry briar	5/5	153	1-4-6-8-10
16736.46	Classica plate 4M metal slate grey	5/5	153	1-4-6-8-10
16736.51	Classica plate 4M wood maple	5/5	153	1-5
16736.53	Classica plate 4M wood cherry	5/5	153	1-5
16736.55	Classica plate 4M wood walnut	5/5	153	1-5

Article	Description	Pack quantity	Page	Marks (See the marks table page 166)
16736.56	Classica plate 4M wood wengé	5/5	153	1
16736.57	Classica plate 4M wood teak	5/5	153	1
16736.58	Classica plate 4M wood mahogany	5/5	153	1
16743.01	Classica plate 3M techn. bright white	10/10	149	1-4-6-8-10
16743.02	Classica plate 3M techn. granite white	10/10	149	1-4-6-8-10
16743.04	Classica plate 3M techn. Idea white	10/10	149	1-4-6-8-10
16743.07	Classica plate 3M techn. ruby red	10/10	149	1-4-6-8-10
16743.10	Classica plate 3M techn. sapphire blue	10/10	149	1-4-6-8-10
16743.13	Classica plate 3M techn. emerald green	10/10	149	1-4-6-8-10
16743.15	Classica plate 3M techn. graphite grey	10/10	149	1-4-6-8-10
16743.16	Classica plate 3M techn. black	10/10	149	1-4-6-8-10
16743.40	Classica plate 3M techn. briar	10/10	149	1
16743.43	Classica plate 3M techn. makoré	10/10	149	1
16743.44	Classica plate 3M techn. rosewood	10/10	149	1
16743.47	Classica plate 3M techn. satin black	10/10	149	1
16743.48	Classica plate 3M techn. satin grey	10/10	149	1
16743.D.01	Classica plate 3M silk white	10/10	149	1-4-6-8-10
16743.D.02	Classica plate 3M silk granite white	10/10	149	1-4-6-8-10
16743.D.04	Classica plate 3M silk Idea white	10/10	149	1-4-6-8-10
16743.D.07	Classica plate 3M silk red	10/10	149	1-4-6-8-10
16743.D.10	Classica plate 3M silk blue	10/10	149	1-4-6-8-10
16743.D.13	Classica plate 3M silk green	10/10	149	1-4-6-8-10
16743.D.15	Classica plate 3M silk graphite	10/10	149	1-4-6-8-10
16743.D.16	Classica plate 3M silk black	10/10	149	1-4-6-8-10
16744.01	Classica plate 4M techn. bright white	10/10	153	1-4-6-8-10
16744.02	Classica plate 4M techn. granite white	10/10	153	1-4-6-8-10
16744.04	Classica plate 4M techn. Idea white	10/10	153	1-4-6-8-10
16744.07	Classica plate 4M techn. ruby red	10/10	153	1-4-6-8-10
16744.10	Classica plate 4M techn. sapphire blue	10/10	153	1-4-6-8-10
16744.13	Classica plate 4M techn. emerald green	10/10	153	1-4-6-8-10
16744.15	Classica plate 4M techn. graphite grey	10/10	153	1-4-6-8-10
16744.16	Classica plate 4M techn. black	10/10	153	1-4-6-8-10
16744.40	Classica plate 4M techn. briar	10/10	153	1
16744.43	Classica plate 4M techn. makoré	10/10	153	1
16744.44	Classica plate 4M techn. rosewood	10/10	153	1
16744.47	Classica plate 4M techn. satin black	10/10	153	1
16744.48	Classica plate 4M techn. satin grey	10/10	153	1
16744.D.01	Classica plate 4M silk white	10/10	153	1-4-6-8-10
16744.D.02	Classica plate 4M silk granite white	10/10	153	1-4-6-8-10
16744.D.04	Classica plate 4M silk Idea white	10/10	153	1-4-6-8-10
16744.D.07	Classica plate 4M silk red	10/10	153	1-4-6-8-10
16744.D.10	Classica plate 4M silk blue	10/10	153	1-4-6-8-10
16744.D.13	Classica plate 4M silk green	10/10	153	1-4-6-8-10
16744.D.15	Classica plate 4M silk graphite	10/10	153	1-4-6-8-10
16744.D.16	Classica plate 4M silk black	10/10	153	1-4-6-8-10
16745.01	Classica plate 5M techn. bright white	5/5	153	1-4-6-8-10
16745.02	Classica plate 5M techn. granite white	5/5	153	1-4-6-8-10
16745.04	Classica plate 5M techn. Idea white	5/5	153	1-4-6-8-10
16745.07	Classica plate 5M techn. ruby red	5/5	153	1-4-6-8-10
16745.10	Classica plate 5M techn. sapphire blue	5/5	153	1-4-6-8-10
16745.13	Classica plate 5M techn. emerald green	5/5	153	1-4-6-8-10
16745.15	Classica plate 5M techn. graphite grey	5/5	153	1-4-6-8-10
16745.16	Classica plate 5M techn. black	5/5	153	1-4-6-8-10
16745.40	Classica plate 5M techn. briar	5/5	153	1
16745.43	Classica plate 5M techn. makoré	5/5	153	1
16745.44	Classica plate 5M techn. rosewood	5/5	153	1
16745.47	Classica plate 5M techn. satin black	5/5	153	1
16745.48	Classica plate 5M techn. satin grey	5/5	153	1
16745.D.01	Classica plate 5M silk white	5/5	153	1-4-6-8-10
16745.D.02	Classica plate 5M silk granite white	5/5	153	1-4-6-8-10
16745.D.04	Classica plate 5M silk Idea white	5/5	153	1-4-6-8-10
16745.D.07	Classica plate 5M silk red	5/5	153	1-4-6-8-10
16745.D.10	Classica plate 5M silk blue	5/5	153	1-4-6-8-10
16745.D.13	Classica plate 5M silk green	5/5	153	1-4-6-8-10
16745.D.15	Classica plate 5M silk graphite	5/5	153	1-4-6-8-10
16745.D.16	Classica plate 5M silk black	5/5	153	1-4-6-8-10
16746.01	Classica plate 6M techn. bright white	5/5	153	1-4-6-8-10
16746.02	Classica plate 6M techn. granite white	5/5	153	1-4-6-8-10
16746.04	Classica plate 6M techn. Idea white	5/5	153	1-4-6-8-10
16746.07	Classica plate 6M techn. ruby red	5/5	153	1-4-6-8-10
16746.10	Classica plate 6M techn. sapphire blue	5/5	153	1-4-6-8-10
16746.13	Classica plate 6M techn. emerald green	5/5	153	1-4-6-8-10
16746.15	Classica plate 6M techn. graphite grey	5/5	153	1-4-6-8-10
16746.16	Classica plate 6M techn. black	5/5	153	1-4-6-8-10

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Article	Description	Pack quantity	Page	Marks (See the marks table page 166)
16746.40	Classica plate 6M techn. briar	5/5	153	1
16746.43	Classica plate 6M techn. makoré	5/5	153	1
16746.44	Classica plate 6M techn. rosewood	5/5	153	1
16746.47	Classica plate 6M techn. satin black	5/5	153	1
16746.48	Classica plate 6M techn. satin grey	5/5	153	1
16746.D.01	Classica plate 6M silk white	5/5	153	1-4-6-8-10
16746.D.02	Classica plate 6M silk granite white	5/5	153	1-4-6-8-10
16746.D.04	Classica plate 6M silk Idea white	5/5	153	1-4-6-8-10
16746.D.07	Classica plate 6M silk red	5/5	153	1-4-6-8-10
16746.D.10	Classica plate 6M silk blue	5/5	153	1-4-6-8-10
16746.D.13	Classica plate 6M silk green	5/5	153	1-4-6-8-10
16746.D.15	Classica plate 6M silk graphite	5/5	153	1-4-6-8-10
16746.D.16	Classica plate 6M silk black	5/5	153	1-4-6-8-10
16748.01	Classica plate 12M techn. white	5/5	155	1-5
16748.04	Classica plate 12M techn. Idea white	5/5	155	1-5
16748.14	Classica plate 12M techn. Idea grey	5/5	155	1-5
16748.16	Classica plate 12M techn. black	5/5	155	1-5
16748.V23	Classica plate 12M techn. metall. anthracite	5/5	155	1-5
16749.01	Classica plate 18M techn. white	5/5	155	1-5
16749.04	Classica plate 18M techn. Idea white	5/5	155	1-5
16749.14	Classica plate 18M techn. Idea grey	5/5	155	1-5
16749.16	Classica plate 18M techn. black	5/5	155	1-5
16749.V23	Classica plate 18M techn. metall. anthracite	5/5	155	1-5
16753.01	Rondò plate 3M metal white	10/10	149	1-4-6-8-11
16753.05	Rondò plate 3M metal amaranth	10/10	149	1-4-6-8-11
16753.07	Rondò plate 3M metal forest green	10/10	149	1-4-6-8-11
16753.08	Rondò plate 3M metal sage green	10/10	149	1-4-6-8-11
16753.10	Rondò plate 3M metal ivory	10/10	149	1-4-6-8-11
16753.11	Rondò plate 3M metal black	10/10	149	1-4-6-8-11
16753.12	Rondò plate 3M metal cobalt blue	10/10	149	1-4-6-8-11
16753.21	Rondò plate 3M metal metall. silver	10/10	149	1-4-6-8-11
16753.22	Rondò plate 3M metal metall. bronze	10/10	149	1-4-6-8-11
16753.23	Rondò plate 3M metal metall. anthracite	10/10	149	1-4-6-8-11
16753.24	Rondò plate 3M metal metall. titanium	10/10	149	1-4-6-8-11
16753.25	Rondò plate 3M metal metall. bordeaux	10/10	149	1-4-6-8-11
16753.26	Rondò plate 3M metal metall. powd. blue	10/10	149	1-4-6-8-11
16753.27	Rondò plate 3M metal irid. champagne	10/10	149	1-4-6-8-11
16753.28	Rondò plate 3M metal irid. euro blue	10/10	149	1-4-6-8-11
16753.29	Rondò plate 3M metal irid. petroleum	10/10	149	1-4-6-8-11
16753.31	Rondò plate 3M metal black chrome	10/10	149	1-4-6-8-11
16753.32	Rondò plate 3M metal polished gold	10/10	149	1-4-6-8-11
16753.33	Rondò plate 3M metal matt gold	10/10	149	1-4-6-8-11
16753.34	Rondò plate 3M metal brushed nickel	10/10	149	1-4-6-8-11
16753.36	Rondò plate 3M metal chrome	10/10	149	1-4-6-8-11
16753.41	Rondò plate 3M metal walnut briar	10/10	149	1-4-6-8-11
16753.42	Rondò plate 3M metal cherry briar	10/10	149	1-4-6-8-11
16753.46	Rondò plate 3M metal slate grey	10/10	149	1-4-6-8-11
16753.51	Rondò plate 3M wood maple	10/10	149	1-5
16753.53	Rondò plate 3M wood cherry	10/10	149	1-5
16753.55	Rondò plate 3M wood walnut	10/10	149	1-5
16753.56	Rondò plate 3M wood wengé	10/10	149	1
16753.57	Rondò plate 3M wood teak	10/10	149	1
16753.58	Rondò plate 3M wood mahogany	10/10	149	1
16754.01	Rondò plate 4M metal white	10/10	153	1-4-6-8-11
16754.05	Rondò plate 4M metal amaranth	10/10	153	1-4-6-8-11
16754.07	Rondò plate 4M metal forest green	10/10	153	1-4-6-8-11
16754.08	Rondò plate 4M metal sage green	10/10	153	1-4-6-8-11
16754.10	Rondò plate 4M metal ivory	10/10	153	1-4-6-8-11
16754.11	Rondò plate 4M metal black	10/10	153	1-4-6-8-11
16754.12	Rondò plate 4M metal cobalt blue	10/10	153	1-4-6-8-11
16754.21	Rondò plate 4M metal metall. silver	10/10	153	1-4-6-8-11
16754.22	Rondò plate 4M metal metall. bronze	10/10	153	1-4-6-8-11
16754.23	Rondò plate 4M metal metall. anthracite	10/10	153	1-4-6-8-11
16754.24	Rondò plate 4M metal metall. titanium	10/10	153	1-4-6-8-11
16754.25	Rondò plate 4M metal metall. bordeaux	10/10	153	1-4-6-8-11
16754.26	Rondò plate 4M metal metall. powd. blue	10/10	153	1-4-6-8-11
16754.27	Rondò plate 4M metal irid. champagne	10/10	153	1-4-6-8-11
16754.28	Rondò plate 4M metal irid. euro blue	10/10	153	1-4-6-8-11
16754.29	Rondò plate 4M metal irid. petroleum	10/10	153	1-4-6-8-11
16754.31	Rondò plate 4M metal black chrome	10/10	153	1-4-6-8-11
16754.32	Rondò plate 4M metal polished gold	10/10	153	1-4-6-8-11
16754.33	Rondò plate 4M metal matt gold	10/10	153	1-4-6-8-11
16754.34	Rondò plate 4M metal brushed nickel	10/10	153	1-4-6-8-11
16754.36	Rondò plate 4M metal chrome	10/10	153	1-4-6-8-11

Article	Description	Pack quantity	Page	Marks (See the marks table page 166)
16754.41	Rondò plate 4M metal walnut briar	10/10	153	1-4-6-8-11
16754.42	Rondò plate 4M metal cherry briar	10/10	153	1-4-6-8-11
16754.46	Rondò plate 4M metal slate grey	10/10	153	1-4-6-8-11
16754.51	Rondò plate 4M wood maple	10/10	153	1-5
16754.53	Rondò plate 4M wood cherry	10/10	153	1-5
16754.55	Rondò plate 4M wood walnut	10/10	153	1-5
16754.56	Rondò plate 4M wood wengé	10/10	153	1
16754.57	Rondò plate 4M wood teak	10/10	153	1
16754.58	Rondò plate 4M wood mahogany	10/10	153	1
16756.01	Rondò plate 6M metal white	5/5	153	1-4-6-8-11
16756.05	Rondò plate 6M metal amaranth	5/5	153	1-4-6-8-11
16756.07	Rondò plate 6M metal forest green	5/5	153	1-4-6-8-11
16756.08	Rondò plate 6M metal sage green	5/5	153	1-4-6-8-11
16756.10	Rondò plate 6M metal ivory	5/5	153	1-4-6-8-11
16756.11	Rondò plate 6M metal black	5/5	153	1-4-6-8-11
16756.12	Rondò plate 6M metal cobalt blue	5/5	153	1-4-6-8-11
16756.21	Rondò plate 6M metal metall. silver	5/5	153	1-4-6-8-11
16756.22	Rondò plate 6M metal metall. bronze	5/5	153	1-4-6-8-11
16756.23	Rondò plate 6M metal metall. anthracite	5/5	153	1-4-6-8-11
16756.24	Rondò plate 6M metal metall. titanium	5/5	153	1-4-6-8-11
16756.25	Rondò plate 6M metal metall. bordeaux	5/5	153	1-4-6-8-11
16756.26	Rondò plate 6M metal metall.powd.blue	5/5	153	1-4-6-8-11
16756.27	Rondò plate 6M metal irid.champagne	5/5	153	1-4-6-8-11
16756.28	Rondò plate 6M metal irid.euro blue	5/5	153	1-4-6-8-11
16756.29	Rondò plate 6M metal irid.petroleum	5/5	153	1-4-6-8-11
16756.31	Rondò plate 6M metal black chrome	5/5	153	1-4-6-8-11
16756.32	Rondò plate 6M metal polished gold	5/5	153	1-4-6-8-11
16756.33	Rondò plate 6M metal matt gold	5/5	153	1-4-6-8-11
16756.34	Rondò plate 6M metal brushed nickel	5/5	153	1-4-6-8-11
16756.36	Rondò plate 6M metal chrome	5/5	153	1-4-6-8-11
16756.41	Rondò plate 6M metal walnut briar	5/5	153	1-4-6-8-11
16756.42	Rondò plate 6M metal cherry briar	5/5	153	1-4-6-8-11
16756.46	Rondò plate 6M metal slate grey	5/5	153	1-4-6-8-11
16756.51	Rondò plate 6M wood maple	5/5	153	1-5
16756.53	Rondò plate 6M wood cherry	5/5	153	1-5
16756.55	Rondò plate 6M wood walnut	5/5	153	1-5
16756.56	Rondò plate 6M wood wengé	5/5	153	1
16756.57	Rondò plate 6M wood teak	5/5	153	1
16756.58	Rondò plate 6M wood mahogany	5/5	153	1
16763.01	Rondò plate 3M techn. bright white	10/10	149	1-4-6-8-11
16763.02	Rondò plate 3M techn. granite white	10/10	149	1-4-6-8-11
16763.04	Rondò plate 3M techn. Idea white	10/10	149	1-4-6-8-11
16763.07	Rondò plate 3M techn. ruby red	10/10	149	1-4-6-8-11
16763.10	Rondò plate 3M techn. sapphire blue	10/10	149	1-4-6-8-11
16763.13	Rondò plate 3M techn. emerald green	10/10	149	1-4-6-8-11
16763.15	Rondò plate 3M techn. graphite grey	10/10	149	1-4-6-8-11
16763.16	Rondò plate 3M techn. black	10/10	149	1-4-6-8-11
16763.40	Rondò plate 3M techn. briar	10/10	149	1
16763.43	Rondò plate 3M techn. makoré	10/10	149	1
16763.44	Rondò plate 3M techn. rosewood	10/10	149	1
16763.47	Rondò plate 3M techn. satin black	10/10	149	1
16763.48	Rondò plate 3M techn. satin grey	10/10	149	1
16763.D.01	Rondò plate 3M silk white	10/10	149	1-4-6-8
16763.D.02	Rondò plate 3M silk granite white	10/10	149	1-4-6-8
16763.D.04	Rondò plate 3M silk Idea white	10/10	149	1-4-6-8
16763.D.07	Rondò plate 3M silk red	10/10	149	1-4-6-8
16763.D.10	Rondò plate 3M silk blue	10/10	149	1-4-6-8
16763.D.13	Rondò plate 3M silk green	10/10	149	1-4-6-8
16763.D.15	Rondò plate 3M silk graphite	10/10	149	1-4-6-8
16763.D.16	Rondò plate 3M silk black	10/10	149	1-4-6-8
16764.01	Rondò plate 4M techn. bright white	10/10	153	1-4-6-8-11
16764.02	Rondò plate 4M techn. granite white	10/10	153	1-4-6-8-11
16764.04	Rondò plate 4M techn. Idea white	10/10	153	1-4-6-8-11
16764.07	Rondò plate 4M techn. ruby red	10/10	153	1-4-6-8-11
16764.10	Rondò plate 4M techn. sapphire blue	10/10	153	1-4-6-8-11
16764.13	Rondò plate 4M techn. emerald green	10/10	153	1-4-6-8-11
16764.15	Rondò plate 4M techn. graphite grey	10/10	153	1-4-6-8-11
16764.16	Rondò plate 4M techn. black	10/10	153	1-4-6-8-11
16764.40	Rondò plate 4M techn. briar	10/10	153	1
16764.43	Rondò plate 4M techn. makoré	10/10	153	1
16764.44	Rondò plate 4M techn. rosewood	10/10	153	1
16764.47	Rondò plate 4M techn. satin black	10/10	153	1
16764.48	Rondò plate 4M techn. satin grey	10/10	153	1
16764.D.01	Rondò plate 4M silk white	10/10	153	1-4-6-8

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Article	Description	Pack quantity	Page	Marks (See the marks table page 166)
16764.D.02	Rondò plate 4M silk granite white	10/10	153	1-4-6-8
16764.D.04	Rondò plate 4M silk Idea white	10/10	153	1-4-6-8
16764.D.07	Rondò plate 4M silk red	10/10	153	1-4-6-8
16764.D.10	Rondò plate 4M silk blue	10/10	153	1-4-6-8
16764.D.13	Rondò plate 4M silk green	10/10	153	1-4-6-8
16764.D.15	Rondò plate 4M silk graphite	10/10	153	1-4-6-8
16764.D.16	Rondò plate 4M silk black	10/10	153	1-4-6-8
16765.01	Rondò plate 5M techn. bright white	5/5	153	1
16765.02	Rondò plate 5M techn. granite white	5/5	153	1
16765.04	Rondò plate 5M techn. Idea white	5/5	153	1
16765.07	Rondò plate 5M techn. ruby red	5/5	153	1
16765.10	Rondò plate 5M techn. sapphire blue	5/5	153	1
16765.13	Rondò plate 5M techn. emerald green	5/5	153	1
16765.15	Rondò plate 5M techn. graphite grey	5/5	153	1
16765.16	Rondò plate 5M techn. black	5/5	153	1
16765.40	Rondò plate 5M techn. briar	5/5	153	1
16765.43	Rondò plate 5M techn. makoré	5/5	153	1
16765.44	Rondò plate 5M techn. rosewood	5/5	153	1
16765.47	Rondò plate 5M techn. satin black	5/5	153	1
16765.48	Rondò plate 5M techn. satin grey	5/5	153	1
16765.D.01	Rondò plate 5M silk white	5/5	153	1
16765.D.02	Rondò plate 5M silk granite white	5/5	153	1
16765.D.04	Rondò plate 5M silk Idea white	5/5	153	1
16765.D.07	Rondò plate 5M silk red	5/5	153	1
16765.D.10	Rondò plate 5M silk blue	5/5	153	1
16765.D.13	Rondò plate 5M silk green	5/5	153	1
16765.D.15	Rondò plate 5M silk graphite	5/5	153	1
16765.D.16	Rondò plate 5M silk black	5/5	153	1
16766.01	Rondò plate 6M techn. bright white	5/5	153	1-4-6-8-11
16766.02	Rondò plate 6M techn. granite white	5/5	153	1-4-6-11
16766.04	Rondò plate 6M techn. Idea white	5/5	153	1-4-6-8-11
16766.07	Rondò plate 6M techn. ruby red	5/5	153	1-4-6-8-11
16766.10	Rondò plate 6M techn. sapphire blue	5/5	153	1-4-6-8-11
16766.13	Rondò plate 6M techn. emerald green	5/5	153	1-4-6-8-11
16766.15	Rondò plate 6M techn. graphite grey	5/5	153	1-4-6-8-11
16766.16	Rondò plate 6M techn. black	5/5	153	1-4-6-8-11
16766.40	Rondò plate 6M techn. briar	5/5	153	1
16766.43	Rondò plate 6M techn. makoré	5/5	153	1
16766.44	Rondò plate 6M techn. rosewood	5/5	153	1
16766.47	Rondò plate 6M techn. satin black	5/5	153	1
16766.48	Rondò plate 6M techn. satin grey	5/5	153	1
16766.D.01	Rondò plate 6M silk white	5/5	153	1-4-6-8
16766.D.02	Rondò plate 6M silk granite white	5/5	153	1-4-6-8
16766.D.04	Rondò plate 6M silk Idea white	5/5	153	1-4-6-8
16766.D.07	Rondò plate 6M silk red	5/5	153	1-4-6-8
16766.D.10	Rondò plate 6M silk blue	5/5	153	1-4-6-8
16766.D.13	Rondò plate 6M silk green	5/5	153	1-4-6-8
16766.D.15	Rondò plate 6M silk graphite	5/5	153	1-4-6-8
16766.D.16	Rondò plate 6M silk black	5/5	153	1-4-6-8
16771	Mounting frame 1M for panel mounting	20/20	147	1-4-6-8-10
16772	Mounting frame 2M for panel mounting	10/10	147	1-4-6-8-10
16776.AU	Flush mounting box for panel mounting	12/12	156	1-4-6-8-10
16781.01	Classica plate 1Mpanel metal white	10/10	157	1-4-6-8-10
16781.05	Classica plate 1Mpanel metal amaranth	10/10	157	1-4-6-8-10
16781.07	Classica plate 1Mpanel metal for.green	10/10	157	1-4-6-8-10
16781.08	Classica plate 1Mpanel metal sage green	10/10	157	1-4-6-8-10
16781.10	Classica plate 1Mpanel metal ivory	10/10	157	1-4-6-8-10
16781.11	Classica plate 1Mpanel metal black	10/10	157	1-4-6-8-10
16781.12	Classica plate 1Mpanel metal cobaltblue	10/10	157	1-4-6-8-10
16781.21	Classica plate 1Mpanel metal met.silver	10/10	157	1-4-6-8-10
16781.22	Classica plate 1Mpanel metal met.bronze	10/10	157	1-4-6-8-10
16781.23	Classica plate 1Mpanel metal met.anthr.	10/10	157	1-4-6-8-10
16781.24	Classica plate 1Mpanel metal met.titan.	10/10	157	1-4-6-8-10
16781.25	Classica plate 1Mpanel metal met.bord.	10/10	157	1-4-6-8-10
16781.26	Classica plate 1Mpanel metal met.powblue	10/10	157	1-4-6-8-10
16781.31	Classica plate 1Mpanel metal met.blackchr	10/10	157	1-4-6-8-10
16781.32	Classica plate 1Mpanel metal polish-gold	10/10	157	1-4-6-8-10
16781.33	Classica plate 1Mpanel metal matt gold	10/10	157	1-4-6-8-10
16781.34	Classica plate 1Mpanel metal brush-nickel	10/10	157	1-4-6-8-10
16781.36	Classica plate 1Mpanel metal chrome	10/10	157	1-4-6-8-10
16781.41	Classica plate 1Mpanel metal walnutbriar	10/10	157	1-4-6-8-10
16781.42	Classica plate 1Mpanel metal cherrybriar	10/10	157	1-4-6-8-10
16781.46	Classica plate 1Mpanel metal slate grey	10/10	157	1-4-6-8-10
16782.01	Classica plate 2Mpanel metal white	10/10	157	1-4-6-8-10

Article	Description	Pack quantity	Page	Marks (See the marks table page 166)
16782.05	Classica plate 2Mpanel metal amaranth	10/10	157	1-4-6-8-10
16782.07	Classica plate 2Mpanel metal for.green	10/10	157	1-4-6-8-10
16782.08	Classica plate 2Mpanel metal sage green	10/10	157	1-4-6-8-10
16782.10	Classica plate 2Mpanel metal ivory	10/10	157	1-4-6-8-10
16782.11	Classica plate 2Mpanel metal black	10/10	157	1-4-6-8-10
16782.12	Classica plate 2Mpanel metal cobalt blue	10/10	157	1-4-6-8-10
16782.21	Classica plate 2Mpanel metal met.silver	10/10	157	1-4-6-8-10
16782.22	Classica plate 2Mpanel metal met.bronze	10/10	157	1-4-6-8-10
16782.23	Classica plate 2Mpanel metal met.anthr.	10/10	157	1-4-6-8-10
16782.24	Classica plate 2Mpanel metal met.titan.	10/10	157	1-4-6-8-10
16782.25	Classica plate 2Mpanel metal met.bord.	10/10	157	1-4-6-8-10
16782.26	Classica plate 2Mpanel metal met.powblue	10/10	157	1-4-6-8-10
16782.31	Classica plate 2Mpanel metal blackchrome	10/10	157	1-4-6-8-10
16782.32	Classica plate 2Mpanel metal polish-gold	10/10	157	1-4-6-8-10
16782.33	Classica plate 2Mpanel metal matt gold	10/10	157	1-4-6-8-10
16782.34	Classica plate 2Mpanel metal brush-nickel	10/10	157	1-4-6-8-10
16782.36	Classica plate 2Mpanel metal chrome	10/10	157	1-4-6-8-10
16782.41	Classica plate 2Mpanel metal walnutbriar	10/10	157	1-4-6-8-10
16782.42	Classica plate 2Mpanel metal cherrybriar	10/10	157	1-4-6-8-10
16782.46	Classica plate 2Mpanel metal slate grey	10/10	157	1-4-6-8-10
16783.01	Rondò plate 1Mpanel metal white	10/10	157	1-5
16783.05	Rondò plate 1Mpanel metal amaranth	10/10	157	1-5
16783.07	Rondò plate 1Mpanel metal forest green	10/10	157	1-5
16783.08	Rondò plate 1Mpanel metal sage green	10/10	157	1-5
16783.10	Rondò plate 1Mpanel metal ivory	10/10	157	1-5
16783.11	Rondò plate 1Mpanel metal black	10/10	157	1-5
16783.12	Rondò plate 1Mpanel metal cobalt blue	10/10	157	1-5
16783.21	Rondò plate 1Mpanel metal met.silver	10/10	157	1-5
16783.22	Rondò plate 1Mpanel metal met.bronze	10/10	157	1-5
16783.23	Rondò plate 1Mpanel metal met.anthracite	10/10	157	1-5
16783.24	Rondò plate 1Mpanel metal met.titanium	10/10	157	1-5
16783.25	Rondò plate 1Mpanel metal met.bordeaux	10/10	157	1-5
16783.26	Rondò plate 1Mpanel metal met.powd.blue	10/10	157	1-5
16783.31	Rondò plate 1Mpanel metal black chrome	10/10	157	1-5
16783.32	Rondò plate 1Mpanel metal polished gold	10/10	157	1-5
16783.33	Rondò plate 1Mpanel metal matt gold	10/10	157	1-5
16783.34	Rondò plate 1Mpanel metal brushed nickel	10/10	157	1-5
16783.36	Rondò plate 1Mpanel metal chrome	10/10	157	1-5
16783.41	Rondò plate 1Mpanel metal walnut briar	10/10	157	1-5
16783.42	Rondò plate 1Mpanel metal cherry briar	10/10	157	1-5
16783.46	Rondò plate 1Mpanel metal slate grey	10/10	157	1-5
16784.01	Rondò plate 2Mpanel metal white	10/10	157	1-5
16784.05	Rondò plate 2Mpanel metal amaranth	10/10	157	1-5
16784.07	Rondò plate 2Mpanel metal forest green	10/10	157	1-5
16784.08	Rondò plate 2Mpanel metal sage green	10/10	157	1-5
16784.10	Rondò plate 2Mpanel metal ivory	10/10	157	1-5
16784.11	Rondò plate 2Mpanel metal black	10/10	157	1-5
16784.12	Rondò plate 2Mpanel metal cobalt blue	10/10	157	1-5
16784.21	Rondò plate 2Mpanel metal met.silver	10/10	157	1-5
16784.22	Rondò plate 2Mpanel metal met.bronze	10/10	157	1-5
16784.23	Rondò plate 2Mpanel metal met.anthracite	10/10	157	1-5
16784.24	Rondò plate 2Mpanel metal met.titanium	10/10	157	1-5
16784.25	Rondò plate 2Mpanel metal met.bordeaux	10/10	157	1-5
16784.26	Rondò plate 2Mpanel metal met.powd.blue	10/10	157	1-5
16784.31	Rondò plate 2Mpanel metal black chrome	10/10	157	1-5
16784.32	Rondò plate 2Mpanel metal polished gold	10/10	157	1-5
16784.33	Rondò plate 2Mpanel metal matt gold	10/10	157	1-5
16784.34	Rondò plate 2Mpanel metal brushed nickel	10/10	157	1-5
16784.36	Rondò plate 2Mpanel metal chrome	10/10	157	1-5
16784.41	Rondò plate 2Mpanel metal walnut briar	10/10	157	1-5
16784.42	Rondò plate 2Mpanel metal cherry briar	10/10	157	1-5
16784.46	Rondò plate 2Mpanel metal slate grey	10/10	157	1-5
16786.01	Classica plate 1Mpanel techn.brightwhite	10/10	157	1-4-6-8-10
16786.04	Classica plate 1Mpanel techn.idea white	10/10	157	1-4-6-8-10
16786.07	Classica plate 1Mpanel techn.ruby red	10/10	157	1-4-6-8-10
16786.10	Classica plate 1Mpanel techn.sapph.blue	10/10	157	1-4-6-8-10
16786.13	Classica plate 1Mpanel techn.emer.green	10/10	157	1-4-6-8-10
16786.15	Classica plate 1Mpanel techn.graph.grey	10/10	157	1-4-6-8-10
16786.16	Classica plate 1Mpanel techn.black	10/10	157	1-4-6-8-10
16787.01	Classica plate 2Mpanel techn.brightwhite	10/10	157	1-4-6-8-10
16787.04	Classica plate 2Mpanel techn.idea white	10/10	157	1-4-6-8-10
16787.07	Classica plate 2Mpanel techn.ruby red	10/10	157	1-4-6-8-10
16787.10	Classica plate 2Mpanel techn.sapph.blue	10/10	157	1-4-6-8-10
16787.13	Classica plate 2Mpanel techn.emer.green	10/10	157	1-4-6-8-10

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16787.16	Classica plate 2Mpanel techn.black	10/10	157	1-4-6-8-10
16803	Table mounting box 3M grey	2/2	156	1-4-6-8-10
16803.B	Table mounting box 3M white	2/2	156	1-4-6-8-10
16806	Table mounting box 6M grey	2/2	156	1-4-6-8-10
16806.B	Table mounting box 6M white	2/2	156	1-4-6-8-10
16813.Q	IP55 mounting frame 3M grey	10/10	146	1
16813.Q.B	IP55 mounting frame 3M white	10/10	146	1
16830	Adaptor for orientable support	5/5	135	
16831	Frame for orientable support grey	4/4	135	
16831.B	Frame for orientable support Idea white	4/4	135	
16835	Orientable support 1M grey	1/1	135	
16835.B	Orientable support 1M white	1/1	135	
16836	Orientable support 2M grey	1/1	135	
16836.B	Orientable support 2M white	1/1	135	
16894	Surface mounting Idea grey	1/1	123	
16894.B	Surface mounting box Idea white	1/1	123	
16894.K	Orientation kit for 16894 grey	6/6	123	
16894.K.B	Orientation kit for 16894 white	6/6	123	
16895	Flush mounting box for 16695/16681	25/25	123	1
16895.A	Antimortar cover for 16895	10/10	123	
16895.C	Cover for 16895	14/14	123	1
16897.S	Intrusion det. kit for orient.supports	10/10	135	
17000	1P 10AX 1-way switch grey	20/20	136	1-4-6-8-10-14-19-23
17000.B	1P 10AX 1-way switch white	20/20	136	1-4-6-8-10-14-19-23
17001	1P 16AX 1-way switch grey	20/20	136	1-4-6-8-10-14-19-23
17001.B	1P 16AX 1-way switch white	20/20	136	1-4-6-8-10-14-19-23
17001.F	1P 16AX 1-way switch lumt grey	20/20	136	1-4-6-8-10-14-19-23
17001.F.B	1P 16AX 1-way switch lumt white	20/20	136	1-4-6-8-10-14-19-23
17001.G	1P 16AX 1-way switch grey	20/20	136	1-4-6-8-10-14-19-23
17001.G.B	1P 16AX 1-way switch white	20/20	136	1-4-6-8-10-14-19-23
17001.L	1P 16AX 1-way switch lums grey	20/20	136	1-4-6-8-10-14-19-23
17001.L.B	1P 16AX 1-way switch lums white	20/20	136	1-4-6-8-10-14-19-23
17002	1P 10AX 2-way switch grey	20/20	136	1-4-6-8-10-14-19-23
17002.B	1P 10AX 2-way switch white	20/20	136	1-4-6-8-10-14-19-23
17003	1P 16AX 2-way switch grey	20/20	136	1-4-6-8-10-14-19-23
17003.B	1P 16AX 2-way switch white	20/20	136	1-4-6-8-10-14-19-23
17003.F	1P 16AX 2-way switch lumt grey	20/20	137	1-4-6-8-10-14-19-23
17003.F.B	1P 16AX 2-way switch lumt white	20/20	137	1-4-6-8-10-14-19-23
17003.G	1P 16AX 2-way switch grey	20/20	136	1-4-6-8-10-14-19-23
17003.G.B	1P 16AX 2-way switch white	20/20	136	1-4-6-8-10-14-19-23
17003.L	1P 16AX 2-way switch lums grey	20/20	137	1-4-6-8-10-14-19-23
17003.L.B	1P 16AX 2-way switch lums white	20/20	137	1-4-6-8-10-14-19-23
17005	1P 16AX reversing switch grey	20/20	137	1-4-6-8-10-14-19-23
17005.B	1P 16AX reversing switch white	20/20	137	1-4-6-8-10-14-19-23
17007	2P 10AX 1-way switch grey	20/20	136	1-4-6-8-10-14-19-23
17007.B	2P 10AX 1-way switch white	20/20	136	1-4-6-8-10-14-19-23
17010	1P NO 10A push general symb. grey	20/20	137	1-4-6-8-10-14-19-23
17010.B	1P NO 10A push general symb. white	20/20	137	1-4-6-8-10-14-19-23
17010.F	1P NO 10A push general symb. lumt grey	20/20	137	1-4-6-8-10-14-19-23
17010.F.B	1P NO 10A push general symb. lumt white	20/20	137	1-4-6-8-10-14-19-23
17010.G	1P NO 10A push general symb. grey	20/20	137	1-4-6-8-10-14-19-23
17010.G.B	1P NO 10A push general symb. white	20/20	137	1-4-6-8-10-14-19-23
17010.L	1P NO 10A push general symb. lums grey	20/20	137	1-4-6-8-10-14-19-23
17010.L.B	1P NO 10A push general symb. lums white	20/20	137	1-4-6-8-10-14-19-23
17020	1P NO 10A 12-24V name-plate push grey	20/20	137	
17020.B	1P NO 10A 12-24V name-plate push white	20/20	137	
17031	2P+E 10A P11 outlet grey	20/20	138	1
17031.B	2P+E 10A P11 outlet white	20/20	138	1
17033	2P+E 16A P17/11 outlet grey	20/20	138	1-7
17033.B	2P+E 16A P17/11 outlet white	20/20	138	1-7
17038	2P+E 16A German outlet grey	20/20	138	1-6-8-10-14
17038.B	2P+E 16A German outlet white	20/20	138	1-6-8-10-14
17039	2P+E 16A P30 outlet grey	20/20	138	1-6-8-10
17039.A	2P+E 16A P30 outlet orange	20/20	138	1-6-8-10
17039.B	2P+E 16A P30 outlet white	20/20	138	1-6-8-10
17039.R	2P+E 16A P30 outlet red	20/20	138	1-6-8-10
17039.V	2P+E 16A P30 outlet green	20/20	138	1-6-8-10
17042	2P+E 10-16A French outlet grey	20/20	138	4-11-13
17042.B	2P+E 10-16A French outlet white	20/20	138	4-11-13
17043	2P+E French outlet +block-device grey	20/20	138	
17043.B	2P+E French outlet +block-device white	20/20	138	
17043.R	2P+E French outlet +block-device red	20/20	138	
* 17044	2P 15A USA+EU ø4,8mm outlet grey	20/20	138	

Article	Description	Pack quantity	Page	Marks (See the marks table page 166)
* 17044.B	2P 15A USA+EU ø4,8mm outlet white	20/20	138	
* 17050	TV 9,5IEC single conn.outlet grey	20/20	139	7
* 17050.B	TV 9,5IEC single conn.outlet white	20/20	139	7
* 17050.S	TV 9,5IEC single conn.out.+2cord-grip g	20/20	139	7
* 17050.S.B	TV 9,5IEC single conn.out.+2cord-grip w	20/20	139	7
* 17051	TV 9,5IEC through-line outlet grey	20/20	139	7
* 17051.B	TV 9,5IEC through-line outlet white	20/20	139	7
* 17052	TV 9,5IEC line-end outlet grey	20/20	139	7
* 17052.B	TV 9,5IEC line-end outlet white	20/20	139	7
17059.V02	TV-RD-SAT1/2 single conn.outlet grey	1/1	139	1-7
17059.V02.B	TV-RD-SAT1/2 single conn.outlet white	1/1	139	1
17059.V15	TV-RD-SAT1/2 through-line outlet grey	1/1	139	1-7
17059.V15.B	TV-RD-SAT1/2 through-line outlet white	1/1	139	1
17066.01	TV-RD-SAT single conn.male outlet 1dB g	20/20	139	1-7
17066.01.B	TV-RD-SAT single conn.male outlet 1dB w	20/20	139	1-7
17066.10	TV-RD-SATthrough-line male outlet 10dB g	20/20	139	1-7
17066.10.B	TV-RD-SATthrough-line male outlet 10dB w	20/20	139	1-7
17066.15	TV-RD-SATthrough-line male outlet 15dB g	20/20	139	1-7
17066.15.B	TV-RD-SATthrough-line male outlet 15dB w	20/20	139	1-7
17066.20	TV-RD-SATthrough-line male outlet 20dB g	20/20	139	1-7
17066.20.B	TV-RD-SATthrough-line male outlet 20dB w	20/20	139	1-7
17070.05	TV-RD-SAT single conn.outlet 5dB 2outs g	5/5	139	1-7
17070.05.B	TV-RD-SAT single conn.outlet 5dB 2outs w	5/5	139	1-7
17070.10	TV-RD-SATthrough-line outlet10dB 2outs g	5/5	139	1-7
17070.10.B	TV-RD-SATthrough-line outlet10dB 2outs w	5/5	139	1-7
17070.15	TV-RD-SATthrough-line outlet15dB 2outs g	5/5	139	1-7
17070.15.B	TV-RD-SATthrough-line outlet15dB 2outs w	5/5	139	1-7
17070.20	TV-RD-SATthrough-line outlet20dB 2outs g	5/5	139	1-7
17070.20.B	TV-RD-SATthrough-line outlet20dB 2outs w	5/5	139	1-7
17080	Mount-frame 1M smooth front+claws grey	50/50	145	1-4-7-9
17080.B	Mount-frame 1M smooth front+claws white	50/50	145	1-4-7-9
17081	Mounting frame 1M +claws grey	50/50	145	1-4-6-8-10
17081.B	Mounting frame 1M +claws white	50/50	145	1-4-6-8-10
17082	Mounting frame 1M for square box grey	50/50	145	1-4-6-8-10
17086	Mount-frame 1M smooth for ø60/56x56mm g	50/50	145	1-4-7-9
17086.B	Mount-frame 1M smooth for ø60/56x56mm w	50/50	145	1-4-7-9
17087	Mount-frame 2reducedM for ø60/56x56mm g	50/50	145	1-4-7-9
17092.01	Classica plate 1-2M metal white	10/10	149	1-4-6-8-10
17092.05	Classica plate 1-2M metal amaranth	10/10	149	1-4-6-8-10
17092.07	Classica plate 1-2M metal forest green	10/10	149	1-4-6-8-10
17092.08	Classica plate 1-2M metal sage green	10/10	149	1-4-6-8-10
17092.10	Classica plate 1-2M metal ivory	10/10	149	1-4-6-8-10
17092.11	Classica plate 1-2M metal black	10/10	149	1-4-6-8-10
17092.12	Classica plate 1-2M metal cobalt blue	10/10	149	1-4-6-8-10
17092.21	Classica plate 1-2M metal met.silver	10/10	149	1-4-6-8-10
17092.22	Classica plate 1-2M metal met.bronze	10/10	149	1-4-6-8-10
17092.23	Classica plate 1-2M metal met.anthr.	10/10	149	1-4-6-8-10
17092.24	Classica plate 1-2M metal met.titanium	10/10	149	1-4-6-8-10
17092.25	Classica plate 1-2M metal met.bordeaux	10/10	149	1-4-6-8-10
17092.26	Classica plate 1-2M metal met.powd.blue	10/10	149	1-4-6-8-10
17092.27	Classica plate 1-2M metal irid.champagne	10/10	149	1-4-6-8-10
17092.28	Classica plate 1-2M metal irid.euro blue	10/10	149	1-4-6-8-10
17092.29	Classica plate 1-2M metal irid.petroleum	10/10	149	1-4-6-8-10
17092.31	Classica plate 1-2M metal black chrome	10/10	149	1-4-6-8-10
17092.32	Classica plate 1-2M metal polished gold	10/10	149	1-4-6-8-10
17092.33	Classica plate 1-2M metal matt gold	10/10	149	1-4-6-8-10
17092.34	Classica plate 1-2M metal brushed nickel	10/10	149	1-4-6-8-10
17092.36	Classica plate 1-2M metal chrome	10/10	149	1-4-6-8-10
17092.41	Classica plate 1-2M metal walnut briar	10/10	149	1-4-6-8-10
17092.42	Classica plate 1-2M metal cherry briar	10/10	149	1-4-6-8-10
17092.46	Classica plate 1-2M metal slate grey	10/10	149	1-4-6-8-10
17092.51	Classica plate 1-2M wood maple	10/10	149	1-5
17092.53	Classica plate 1-2M wood cherry	10/10	149	1-5
17092.55	Classica plate 1-2M wood walnut	10/10	149	1-5
17092.56	Classica plate 1-2M wood wengé	10/10	149	1
17092.57	Classica plate 1-2M wood teak	10/10	149	1
17092.58	Classica plate 1-2M wood mahogany	10/10	149	1
17093.01	Rondò plate 1-2M metal white	10/10	149	1-4-6-8-11
17093.05	Rondò plate 1-2M metal amaranth	10/10	149	1-4-6-8-11
17093.07	Rondò plate 1-2M metal forest green	10/10	149	1-4-6-8-11
17093.08	Rondò plate 1-2M metal sage green	10/10	149	1-4-6-8-11
17093.10	Rondò plate 1-2M metal ivory	10/10	149	1-4-6-8-11
17093.11	Rondò plate 1-2M metal black	10/10	149	1-4-6-8-11
17093.12	Rondò plate 1-2M metal cobalt blue	10/10	149	1-4-6-8-11



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# Terms and conditions of sale

1. The contractual relationship resulting from the acceptance of each individual order is regulated by the rules described in these general terms of sale.

The purchaser waives any other general purchasing conditions, unless otherwise specifically accepted in writing by VIMAR.
2. The purchase order is irrevocable and binding for the purchaser, and shall be considered accepted when the purchaser receives formal confirmation thereof from VIMAR.

Once confirmed, the purchase order may not be cancelled without the previous written consent of VIMAR. In this event, VIMAR shall have the right to a suitable indemnity for the expenses and costs sustained in beginning to fulfil the order.
3. The prices indicated in the sale catalogues/price lists are purely indicative, and may change during the validity period of the same catalogues/price lists due to increased production costs. Once confirmed according to the procedures set forth in art. 2, the sale prices indicated in the order shall become binding, except in the event of unforeseen increases in production costs beyond VIMAR's control. In this event VIMAR shall inform the purchaser of the price increase, indicating the cause thereof.
4. Delivery terms are purely indicative unless specifically agreed otherwise. Should the manufacturer be unable to fulfil the order due to circumstances of force majeure, irregular supply of raw materials or other unforeseeable circumstances, the terms of delivery shall be considered extended, and the new terms will be established by mutual agreement between the parties.
5. Risk is transferred to the purchaser when the products are delivered to the personnel indicated by the latter. The purchaser shall indicate the selected means of shipment while ordering. Should no shipping means be indicated, the VIMAR shall choose the means of shipment for the products, with no right to claim.

VIMAR is exempt from any liability, with particular regard to theft, breakdowns, or tampering that may occur during the shipment. The packing costs for the products shall be met by the purchaser and invoiced at cost.
6. The purchaser undertakes to verify the quantity and state of the packages shipped in confrontation with the carrier or forwarding agent.

Any complaints regarding quantity discrepancies or damaged packages must be notified within 8 days from the receipt of the merchandise. No products may be returned unless previously agreed upon with VIMAR. In the case of authorized returns, the products returned via free port and packing free of charge, shall be credited at the purchase price minus 10% for inspection and repackaging costs.
7. The product guarantee issued to the end user shall be deemed to be a contractual guarantee pursuant to s. 1519(7) of the Civil Code, with the result that the consumers' rights expressly laid down by legislation on the sale of consumer goods is not prejudiced in any way. As the consequent the consumer may always enforce such rights against the vendor, on the terms and conditions laid down in the said legislation and in this contractual guarantee.

The products are guaranteed for the period of **three years** from the date of purchase. In any event, in order to enforce the guarantee, the purchaser must report the non-conformity in writing to the vendor within two months of the date of its discovery. Whether the purchaser fail to do it by the expiry its rights will lapse.

In the event of non-conformity of the products sold, the consumer may request their repair or replacement. As specified in s. 1519(4) of the Civil Code, if the remedy requested is objectively impossible or excessively onerous, involving considerable, unreasonable costs for the vendor, VIMAR will restore the conformity of the product by activating the alternative remedy. In any event, in accordance with the last paragraph of s. 1519(4) of the Civil Code, a slight non-conformity for which it would be objectively impossible or excessively onerous for VIMAR to provide the remedies specified above shall not entitle the consumer to terminate the contract of sale. VIMAR guarantees to repair or replace non-confirming goods free of charge. The consumer has the responsibility for demonstrating that this guarantee is still valid by producing a delivery document issued by the vendor or other documentary evidence (fiscal receipt, till receipt or the like, product code, orders, contract, etc.) which shows the vendor's name and the date of the sale. The guarantee shall not operate in the event of improper use of the goods, and in particular in the event of use thereof for commercial, business or professional. In any at these cases the terms of ss. 1490 et seq. of the Civil Code remain applicable. Equally, non-conformities due to negligent or careless use (e.g. failure to comply with the instructions for operation of the equipment), installation or maintenance performed by unauthorised personnel, damages caused during transport or by circumstances unrelated to manufacturing defects and/or non-conformity of the product are not covered by the guarantee. VIMAR declines all liability for any damage or injury which may be caused directly or indirectly to persons, property and domestic animals as a result of failure to comply with the directions given in the instruction book, in particular those relating to installation, use and maintenance of the product.
8. The products must be installed and/or used in compliance with their technical specifications and the instructions provided by VIMAR; they must also be installed and/or used in observance of safety regulations and requirements governing the installation and/or use of electrical material in force in the country where the products are installed and/or used.

For this purpose the purchaser expressly relieves VIMAR of any liability in regard to improper use, failure to observe safety standards, technical specifications and operating instructions.

Products that do not comply with the standards and/or technical specifications in force within the European Union shall be supplied only to those purchasers who specify in the order that the destination country is not a member of the European Union, and who state that all necessary investigations have been carried out as to the compatibility of safety standards in force in the non-EU country for which they are intended.
9. Payments must be made to the registered offices of VIMAR. Failure to pay invoices, in full or in part, beyond the established due date shall immediately lead to the application of interests at the legal rate, in addition to any bank charges and commissions.

Failure to pay for any reason shall authorize VIMAR to suspend additional shipments of material.
10. As per the terms of art. 10 of the law 675/96, the purchaser is hereby informed that all personal information shall be entered into the VIMAR database. That is necessary to uphold the contractual relationship correctly in and compliance with certain legal requirements, as well as for statistical, commercial, marketing, promotional purposes, credit protection, management and transfer thereof.

The purchaser's personal information is processed by automated means and by authorized persons, with the use of security measures aimed at ensuring confidentiality.

VIMAR S.p.A. is the owner of processed data, whom the purchaser may contact to exercise his rights as set forth in article 13 of the law cited above.

To this end the purchaser is hereby informed that he may access his own personal information at any time, and request that it be updated, corrected, or deleted and/or refuse to allow processing thereof.
11. The rights and obligations of the parties are regulated by the Italian law. The Court of Bassano del Grappa has non-exclusive jurisdiction over any controversy that may arise in relation to the sale of the products. The purchaser accepts irrevocably the jurisdiction of the Court of Bassano del Grappa should VIMAR file suit with this court.

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