

Switches - TECHNICAL CHARACTERISTICS

Scope

Switching on and off of ohm-inductive loads:

- lighting circuits:
 - lighting fittings (luminaires) for use 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.)
 - switches socket outlet

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 113
- symbols, wordings, logotypes or trademarks on request (see "Customization" - page 112)

Technical specifications

- rated voltage: 250 V~
- rated current:
 - 10 A for push buttons
 - 16 AX for devices that controls circuits of fluorescent lamps with power factor compensation
- contact opening gap: > 3 mm
- insulation resistance: > 5 MΩ a 500 V d.c.
- dielectric strength: > 2000 V~
- minimum breaking capacity:
 - 200 operations with 1,25 In, 275 V~ cosφ 0,3 and 200 operations with 1,2 In, 250 V~, with load of tungsten filament lamp (except for push buttons)
- minimum electrical life:
 - 40.000 operations with In, 250 V~, cosφ 0,6
 - 10.000 operations for 10 AX switches (5.000 for 16 AX switches) with In, 250 V~, with load of fluorescent lamps
- balanced and noiseless rocking action for 1-way, 2-way and reversing switches and push buttons

Conformity to Standards

LV Directive
EN 60669-1 Standard

Pre-wired signalling unit for switch visibility in the dark

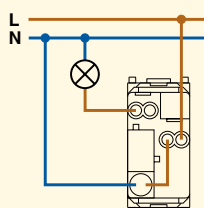


Signalling unit for the signalling of the load state

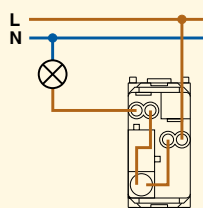


Wiring diagrams for luminous 1P 1-way switches with 110 V~ or 250 V~ signalling units

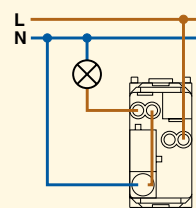
For switch location in the dark:
pilot lamp always lit



For switch location in the dark:
pilot lamp unlit when the controlled load is ON



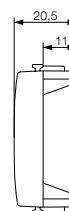
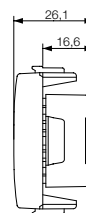
Indication of the operation state of appliances not visible from the operating point:
pilot lamp lit when the controlled load is ON



Switches

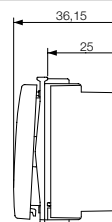
Blank module and cable outlet

20041	.B	.N	Blank module
20044	.B	.N	Cable outlet

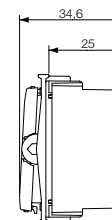
20041
grey20041.B
white20041.N
Next20044
grey20044.B
white20044.N
Next

1P 1-way switch 250 V~

20001	.B	.N	1P 16 AX 1-way switch, lightable, replaceable button
20001.0			1P 16 AX 1-way switch mechanism, lightable, to complete with 1-, 2- or 3-module button

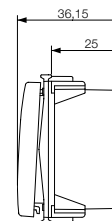
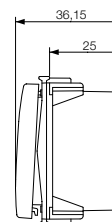
20001
grey20001.B
white20001.N
Next

20001.0



1P 1-way switch 250 V~

20001.2	.B	.N	1P 16 AX 1-way switch, lightable - 2 modules
20001.7	.B	.N	1P 16 AX 1-way switch, with diffuser - 2 modules

20001.2
grey20001.2.B
white20001.2.N
Next20001.7
grey20001.7.B
white20001.7.N
Next

Switches - TECHNICAL CHARACTERISTICS

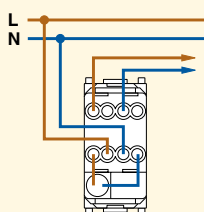
Technical specifications of signalling units

Article	Type	Supply voltage	W	Colour
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
Δ10492.V	fluorescent	110 V~	0,5 W max	green
10493.V	fluorescent	250 V~	0,5 W max	green
Δ10492.AZ	fluorescent	110 V~	0,5 W max	blue
10493.AZ	fluorescent	250 V~	0,5 W max	blue
Δ14772	neon	120 V~	0,5 W max	red
14773	neon	230 V~	0,5 W max	red

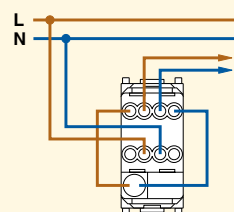
A 1,5 µF 400 V~ capacitor should be connected in parallel to neon or fluorescent signalling units to avoid self-ignition in special circuits.

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

For switch location
in the dark:
pilot lamp always lit



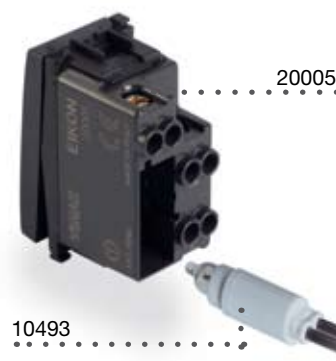
Indication of the operation state
of appliances not visible from
the operating point:
pilot lamp lit when the controlled load is ON



Pre-wired signalling unit for switch location in the dark

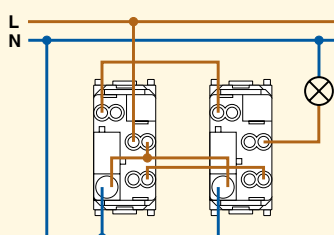


Signalling unit for the signalling of the load state

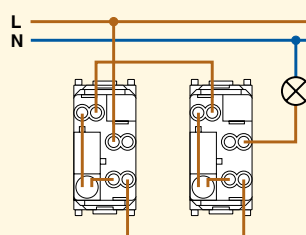


Wiring diagrams of luminous 1P 2-way switches with 110 V~ or 250 V~ signalling unit

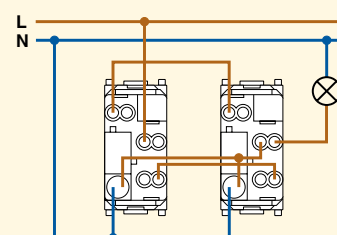
For switch location
in the dark:
pilot lamp always lit



For switch location
in the dark:
pilot lamp unlit when the
controlled load is ON



Indication of the operation state
of appliances not visible from
the operating point:
pilot lamp lit when the controlled load is ON



Switches

2P 1-way switch 250 V~

20015	.B	.N	2P 16 AX 1-way switch, lightable, replaceable button
20015.0			2P 16 AX 1-way switch mechanism, lightable, to complete with 1-, 2- or 3-module button
20015.2	.B	.N	2P 16 AX 1-way switch, lightable - 2 modules



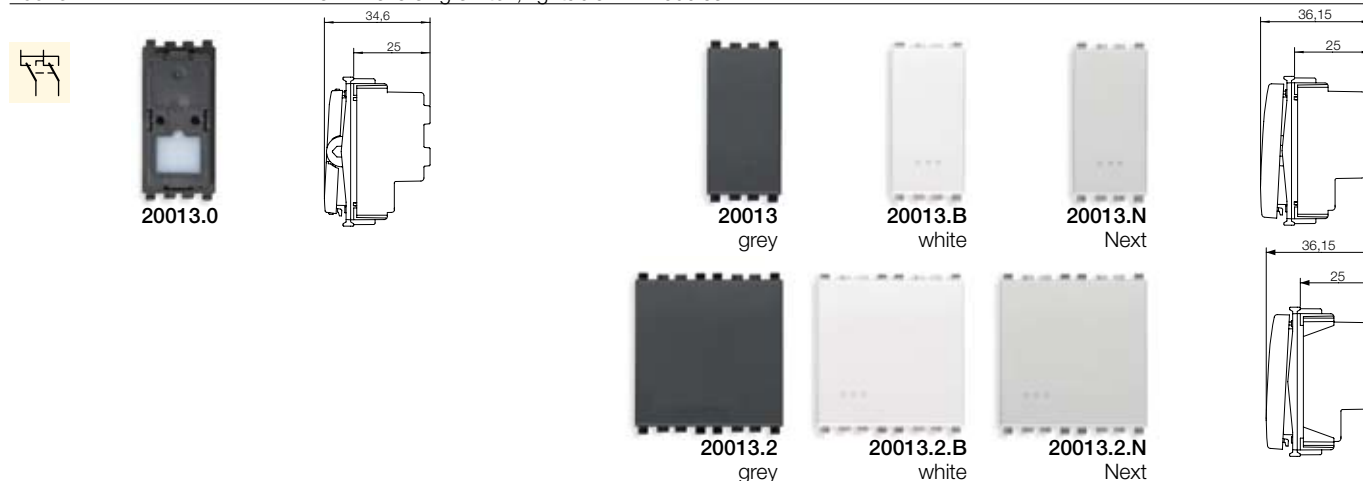
1P 2-way switch 250 V~

20005	.B	.N	1P 16 AX 2-way switch, lightable, replaceable button
20005.0			1P 16 AX 2-way switch mechanism, lightable, to complete with 1-, 2- or 3-module button
20005.2	.B	.N	1P 16 AX 2-way switch, lightable - 2 modules
20005.7	.B	.N	1P 16 AX 2-way switch, with diffuser - 2 modules



1P reversing switch 250 V~

20013	.B	.N	1P 16 AX reversing switch, lightable, replaceable button
20013.0			1P 16 AX reversing switch mechanism, lightable, to complete with 1-, 2- or 3-module button
20013.2	.B	.N	1P 16 AX reversing switch, lightable - 2 modules



Switches - TECHNICAL CHARACTERISTICS

1P push buttons

Pre-wired signalling unit for switch location in the dark

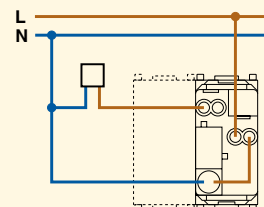


Signalling unit for the signalling of the load state



Wiring diagram of luminous 1P push button with 110 V~ or 250 V~ signalling unit

For switch location in the dark:
pilot lamp always lit



Switches

1P push button 250 V~

20008	.B	.N	1P NO 10 A push button, lightable, replaceable button
20008.0			1P NO 10 A push button mechanism, lightable, to complete with 1-, 2- or 3-module button
20008.7	.B	.N	1P NO 10 A push button, with diffuser - 2 modules



1P push button 250 V~

20008.2	.B	.N	1P NO 10 A push button, lightable - 2 modules
20008.2.C	.B	.N	1P NO 10 A push button, lightable, bell symbol - 2 modules
20008.2.L	.B	.N	1P NO 10 A push button, lightable, light symbol - 2 modules
20008.2.P	.B	.N	1P NO 10 A push button, lightable, key symbol - 2 modules



1P push button 250 V~

20010	.B	.N	1P NC 10 A push button, lightable, replaceable button
20010.0			1P NC 10 A push button mechanism, lightable, to complete with 1-, 2- or 3-module button

