

Electronic Relays and Actuators: Multi and Single Function



Call and reset switches for bathrooms



Bathroom lighting control



Bedroom light control



Living room light control



Office lighting control



Remote climate control



13
SERIES

13.81 - Quiet electronic step relay - Rail mount - 1 Pole

13.91 - Quiet electronic step relay and timing step relay Switch box mount - 1 Pole

- Fixed time (10 minutes) timing function selectable (13.91)
- Use with 3 or 4 wire connection, with automatic recognition by the relay
- Control input can be continuously applied
- Longer mechanical and electrical life, and much quieter than electromechanical step relays
- "Zero crossing" load switching
- Can be mounted behind blanking plates, as widely used in residential wiring systems such as; BTicino: Axolute, Matix, Living and Magic, Gewiss: GW24, Vimar: Plana and Idea ... (13.91)
- 35 mm rail (EN 60715) mount (13.81)
- Cadmium free contact material

13.81/91

Screw terminals



For outline drawing see page 19, 20

Contact specification

Contact configuration		1 NO (SPST-NO)	1 NO (SPST-NO)
Rated current/Maximum peak current	A	16/30 (120 - 5 ms)	10/20 (80 - 5 ms)
Rated voltage/ Maximum switching voltage	V AC	230/—	230/—
Rated load AC1	VA	3700	2300
Rated load AC15 (230 V AC)	VA	750	450
Nominal lamp rating:			
230 V incandescent/halogen W		3000	1000
fluorescent tubes with electronic ballast W		1500	500
fluorescent tubes with electromagnetic ballast W		1000	350
CFL W		600	300
230 V LED W		600	300
LV halogen or LED with electronic ballast W		600	300
LV halogen or LED with electromagnetic ballast W		1500	500
Minimum switching load	mW (V/mA)	1000 (10/10)	1000 (10/10)
Standard contact material		AgSnO ₂	AgSnO ₂

Supply specification

Nominal voltage (U _N)	V AC (50/60 Hz)	230	230
	V DC	—	—
Rated power	V A (50 Hz)/W	3/1.2	2/1
Operating range	AC (50 Hz)	(0.8...1.1)U _N	(0.8...1.1)U _N
	DC	—	—

Technical data

Electrical life at rated load in AC1	cycles	100 · 10 ³	100 · 10 ³
Maximum impulse duration		continuous	continuous
Dielectric strength between:			
open contacts V AC		1000	1000
supply - contacts V AC		—	—
Ambient temperature range	°C	-10...+60	-10...+50
Protection category		IP 20	IP 20

Approvals (according to type)



13.81



- 1 NO (SPST-NO)
- 35 mm rail (EN 60715) mount
- 17.5 mm wide

13.91



- 1 NO (SPST-NO)
- Step relay and timing step relay (10 minutes)
- For mounting within residential switch boxes

**13.01 - Electronic step/monostable relay
Rail mount - 1 Pole**
**13.61 - Multifunction step/monostable relay
with reset command - Rail mount 1 Pole**

- Selectable Step or Monostable operation (13.01)
- Multifunction (Step, Timing step, Monostable, Light ON) (13.61)
- Reset feature, for centralized off command (13.61)
- Set feature, for centralized on command (13.61.0.024)
- Control input can be continuously applied
- Longer mechanical and electrical life, and much quieter than electromechanical step relays
- 12...24 V AC/DC and 110...240 V AC supply versions (13.61)
- Suitable for SELV applications and available also for supply 12 and 24 V AC/DC (13.01)
- "Zero-crossing" load switching (13.61)
- 35 mm rail (EN 60715) mount
- Cadmium free contact material

13.01/61

Screw terminals



For outline drawing see page 19

Contact specification

Contact configuration		1 CO (SPDT)	1 CO (SPDT)	1 NO (SPST-NO)
Rated current/Maximum peak current	A	16/30 (120 A - 5 ms)	16/30 (120 A - 5 ms)	16/30 (120 A - 5 ms)
Rated voltage/ Maximum switching voltage	V AC	250/400	250/400	250/400
Rated load AC1	VA	4000	4000	4000
Rated load AC15 (230 V AC)	VA	750	750	750
Nominal lamp rating:				
230 V incandescent/halogen W		2000	2000	3000
fluorescent tubes with electronic ballast W		1000	1000	1500
fluorescent tubes with electromagnetic ballast W		750	750	1000
CFL W		400	400	600
230 V LED W		400	400	600
LV halogen or LED with electronic ballast W		400	400	600
LV halogen or LED with electromagnetic ballast W		800	800	1500
Minimum switching load	mW (V/mA)	1000 (10/10)	1000 (10/10)	1000 (10/10)
Standard contact material		AgSnO ₂	AgSnO ₂	AgSnO ₂

Supply specification

Nominal voltage (U _N)	V AC (50/60 Hz)	110...125	230...240	—	110...240
	V DC/AC (50/60 Hz)	12	24	12...24	—
Rated power AC/DC	V A (50/60 Hz)/W	2.5/2.5		1/0.5	3.2/1
Operating range	V AC (50 Hz)	90...130	184...253	—	90...264
	V DC/AC (50 Hz)	10.8...13.2	20.6...33.6	10.2...26.4	—

Technical data

Electrical life at rated load in AC1	cycles	100 · 10 ³	100 · 10 ³	100 · 10 ³
Maximum impulse duration		continuous	continuous	continuous
Dielectric strength between:	open contacts V AC	1000	1000	1000
	supply - contacts V AC	4000	2000	2000
Ambient temperature range	°C	-10...+60	-10...+60	-10...+60
Protection category		IP 20	IP 20	IP 20

Approvals (according to type)

13.01


- 1 CO (SPDT)
- Step or monostable relay
- According to EN 60601-1 2 x MOOP
- 35 mm rail (EN 60715) mount
- 35 mm wide

13.61.0.024.0000


- 1 CO (SPDT)
- Reset feature, for centralized off command
- Set feature, for centralized on command
- Multifunction:
 - step relay
 - timing step relay (30s...20min)
 - monostable relay
 - light on
- 35 mm rail (EN 60715) mount
- 17.5 mm wide

13.61.8.230.0000


- 1 NO (SPST-NO)
- Reset feature, for centralized off command
- Multifunction:
 - step relay
 - timing step relay (30s...20min)
 - monostable relay
 - light on
- 35 mm rail (EN 60715) mount
- 17.5 mm wide

13.11 - Call & Reset Relay - Rail mount - 1 Pole
13.12 - Call & Reset Relay - Rail mount - 2 Pole
13.31 - Electromechanical monostable relay
Switch box mount - 1 Pole

- Call relay with reset command suitable for residential and commercial applications: public bathroom, hospital, hotel (type 13.11/13.12)
- Can be mounted behind blanking plates, as widely used in residential wiring systems such as; BTicino: Axolute, Matix, Living e Magic, Gewiss: GW24, Vimar: Plana e Idea ... (13.31)
- 35 mm rail (EN 60715) or flange mount (13.11 and 13.12)
- Cadmium free contact material (13.31)

13.11/12/31
Screw terminals



* During impulse only.
For outline drawing see page 19

Contact specification

Contact configuration		1 CO (SPDT)	1 CO (SPDT) + 1 NO (SPST-NO)	1 NO (SPST-NO)
Rated current/Maximum peak current	A	12/30	8/15	12/20 (80 A - 5 ms)
Rated voltage/ Maximum switching voltage	V AC	250/400	250/400	250/400
Rated load AC1	VA	3000	2000	3000
Rated load AC15 (230 V AC)	VA	750	400	450
Nominal lamp rating:				
230 V incandescent/halogen	W	1200	800	800
fluorescent tubes with electronic ballast	W	500	300	400
fluorescent tubes with electromagnetic ballast	W	400	250	300
CFL	W	300	150	200
230 V LED	W	300	150	200
LV halogen or LED with electronic ballast	W	300	150	200
LV halogen or LED with electromagnetic ballast	W	500	300	400
Minimum switching load	mW (V/mA)	500 (5/5)	300 (5/5)	1000 (10/10)
Standard contact material				
		AgCdO	AgCdO	AgSnO ₂
Supply specification				
Nominal voltage (U _N)	V AC (50/60 Hz)	230...240	12 - 24	12 - 230
	V DC	—	12 - 24	24
Rated power AC/DC	V A (50 Hz)/W	1.7/0.7*	3/2.5*	1/0.4
Operating range	AC (50 Hz)	(0.8...1.1)U _N	(0.8...1.1)U _N	(0.8...1.1)U _N
	DC	—	(0.8...1.1)U _N	(0.8...1.1)U _N
Technical data				
Electrical life at rated load in AC1	cycles	100 · 10 ³	100 · 10 ³	70 · 10 ³
Maximum impulse duration		10 s (100 ms minimum)	10 s (100 ms minimum)	continuous
Dielectric strength between:	open contacts	1000	1000	1000
	supply - contacts	2000	2000	2000
Ambient temperature range	°C	-10...+60	-10...+60	-10...+60
Protection category		IP 20	IP 20	IP 20

Approvals (according to type)



Multi and Single function electronic relays with Bluetooth
13.22 - Electronic multifunction relay 2 Pole

- Round wall box (ie: Ø 60 mm) mounting
- 21 available functions (step relays, timer, staircase timer) for lighting and fan motor control

13.72 - Electronic multifunction relay 2 Pole

- Wall mounting, compatible with most popular Italian residential switch boxes: AVE, BTicino, Gewiss, Simon-Urmet, Vimar
- 21 available functions: step relays, timing (1s - 24h), electric shutter, blind or curtain control

13.S2 - Electronic roller shutter actuator

- Round wall box (ie: Ø 60 mm) mounting
- For electric shutter, blind or curtain control
- 2 contacts NO 6 A - 230 V AC independent and programmable channels
- 2 inputs for wired pushbuttons (one input per channel)
- Transmission range: approximately 10 m in free space and without obstacles

13.22/S2/72

Screw terminals



NOTE: with 110...125 V AC supply, the Ratings (AC1, AC15 and lamp loads) must be reduced by 50 % (e.g. 100 W instead of 200 W)

For outline drawing see page 20

Contact specification

Contact configuration		2 NO (DPST-NO)	2 NO (DPST-NO)	2 NO (DPST-NO)
Rated current/Maximum peak current	A	6/40	6/40	6/40
Rated voltage/Maximum switching voltage	V AC	230/—	230/—	230/—
Rated load AC1	VA	1380	1380	1380
Rated load AC15 (230 V AC)	VA	300	300	300
Single phase motor rating (230 V AC)	W	200	200	200
Nominal lamp rating 230V:				
incandescent/halogen W		200	200	—
fluorescent tubes with electronic ballast W		200	200	—
fluorescent tubes with electromagnetic ballast W		200	200	—
CFL W		200	200	—
LED 230 V W		200	200	—
LV halogen or LED with electronic ballast W		200	200	—
LV halogen or LED with electromagnetic ballast W		200	200	—

Supply specification

Nominal voltage (U _N)	V AC (50/60 Hz)	110...230	110...230	110...230
	V DC	—	—	—
Rated power AC/DC	VA (50 Hz)/W	2 / 0.5	2 / 0.5	2 / 0.5
Operating range	AC (50 Hz)	(0.8...1.1)U _N	(0.8...1.1)U _N	(0.8...1.1)U _N
	DC	—	—	—

Technical data

Electrical life at rated load in AC1	cycles	60 · 10 ³	60 · 10 ³	60 · 10 ³
Maximum impulse duration		continuous	continuous	continuous
Dielectric strength between: open contacts	V AC	1000	1000	1000
Ambient temperature range	°C	-10...+50	-10...+50	-10...+50
Protection category		IP 20	IP 20	IP 20

Approvals (according to type)

NEW 13.22

YESLY



- Offering a variety of ON/OFF functions associated with lighting and fan motor control
- Transmission protocol Bluetooth Low Energy (BLE)
- Safe connection with 128-bit encryption
- App programming with iOS or Android Smartphone: Finder TOOLBOX
- Can be managed through standard pushbuttons, BEYON and Type 013.B9 wireless buttons

NEW 13.72

YESLY



- Offering a variety of ON/OFF functions associated with lighting, electric shutters, blinds or curtains
- Transmission protocol Bluetooth Low Energy (BLE)
- Safe connection with 128-bit encryption
- App programming with iOS or Android Smartphone: Finder TOOLBOX
- Can be managed through standard pushbuttons, BEYON and Type 013.B9 wireless buttons

NEW 13.S2

YESLY



- Suitable for electric shutters, blind or curtain control
- Transmission protocol Bluetooth Low Energy (BLE)
- Safe connection with 128-bit encryption
- App programming with iOS or Android Smartphone: Finder TOOLBOX
- Can be managed through standard pushbuttons, BEYON and Type 013.B9 wireless buttons

Bluetooth single channel multifunction relay

NEW 13.21.8.230.B000

NEW 13.21.8.230.S000

Type 13.21.8.230.B000

- BLE communication protocol
- Round wall box (ie: Ø 60 mm) mounting
- 12 available functions
- Up to 8 scenarios
- Pushbutton Phase or Neutral connection

Radio frequency remote actuator for BLISS2

Type 13.21.8.230.S000

- 868 MHz long-range radio frequency transmission
- Multi-zone heating/cooling function
- Hygrostat function combined with the Bliss2 thermostat
- Compatible with the BLISS2 smart thermostat

13.21

Screw terminals



YESLY

- 1 CO (SPDT) 16 A 250 V AC
- Bluetooth Low Energy (BLE) transmission protocol
- 128-bit encrypted connection
- Programmable via TOOLBOX App Finder compatible with iOS and Android operating systems
- It can be connected to wired buttons or to BEYON and 013B9 wireless buttons
- Recess mounting



BLISS2

- 1 CO (SPDT) 16 A 250 V AC
- Compatible with Bliss2 smart thermostat
- Heating/cooling systems - direct or solenoid control
- It can be used in dehumidification or forced ventilation systems

For outline drawing see page 20

Contact specification

		1 CO (SPDT)	1 CO (SPDT)
Contact configuration		1 CO (SPDT)	1 CO (SPDT)
Rated current	A	16	16
Rated voltage/ Maximum switching voltage	V AC	250	250
Rated load AC1	VA	3600	3600
Rated load AC15 (230 V AC)	VA	600	600
Single phase motor rating (230 V AC)	W	500	500
Nominal lamp rating 230V:			
incandescent/halogen	W	1000	—
fluorescent tubes with electronic ballast	W	500	—
fluorescent tubes with electromagnetic ballast	W	350	—
CFL	W	300	—
LED 230 V	W	200	—
LV halogen or LED with electronic ballast	W	200	—
LV halogen or LED with electromagnetic ballast	W	500	—

Supply specification

Nominal voltage (U _N)	V AC (50/60 Hz)	110...230	110...230
	V DC	—	—
Rated power AC/DC	V A (50 Hz)/W	2.8 / 0.8	2.8 / 0.8
Operating range	AC (50 Hz)	(0.8...1.1)U _N	(0.8...1.1)U _N
	DC	—	—

Technical data

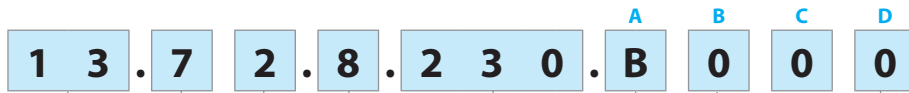
Electrical life at rated load in AC1	cycles	50 · 10 ³	50 · 10 ³
Maximum impulse duration		continuous	—
Dielectric strength between: open contacts	V AC	1000	1000
Ambient temperature range	°C	-10...+50	-10...+50
Protection category		IP 20	IP 20

Approvals (according to type)



Ordering information

Example: Multifunction relay with YESLY Bluetooth, 2 contacts 6 A NO (SPST-NO), 110...230 V AC supply.



- Series**
Type
 0 = Step/Monostable, 35 mm rail (EN 60715) mount, 35 mm wide
 1 = Call & Reset relay, 35 mm rail (EN 60715) mount, 17.5 mm wide
 2 = Wall box mounting
 3 = Monostable relay, switch box mounting
 6 = Multifunction relay, 35 mm rail (EN 60715) mount, 17.5 mm wide
 7 = YESLY - Multifunction relay compatible with the most popular Italian wall switch systems: AVE, BTicino, Gewiss, Simon-Urmet, Vimar
 8 = Modular step relay, 35 mm rail (EN 60715) mount, 17.5 mm wide
 9 = Step relay and timing step relay, switch box mounting
 S = YESLY - Shutter/blind/curtain actuator, wall box mounting
- No. of poles**
 1 = 1 pole
 2 = 2 poles 6 A NO (SPST-NO) (type 13.72 and 13.22/S2)
 2 = 1 pole CO (SPDT) + 1 NO (SPST-NO)
- Supply version**
 0 = AC (50/60 Hz)/DC
 8 = AC (50/60 Hz)
 9 = DC
- Supply voltage**
 012 = 12 V AC/DC (13.01 and 13.12 only)
 012 = 12 V AC (13.31 only)
 024 = 24 V AC/DC (13.01 and 13.12 only)
 024 = 24 V DC (13.31 only)
 024 = 12...24 V AC/DC (13.61 only)
 125 = (110...125)V AC (13.01 only)
 230 = (230...240)V AC (13.01 and 13.11)
 230 = 110...240 V AC (13.61 only)
 230 = 230 V AC (13.31, 13.81 and 13.91)
 230 = 110...230 V AC (13.21, 13.22, 13.72, 13.52)

0 = Type 13.72 white
 2 = Type 13.72 anthracite gray

A: Transmission protocol
 (only for Type 13.21/22/S2/72)
 B = Bluetooth Low Energy (BLE)
 S = 868 MHz, compatible with Bliss2

A: Contacts material
 0 = Standard
 4 = Standard AgSnO₂ (only for 13.31)

B: Contact circuit
 0 = Standard
 3 = Standard NO (only for 13.31)

Codes / Supply voltage
 13.01.0.012.0000 12 V AC/DC
 13.01.0.024.0000 24 V AC/DC
 13.01.8.125.0000 110...125 V AC
 13.01.8.230.0000 230...240 V AC
 13.11.8.230.0000 230...240 V AC
 13.12.0.012.0000 12 V AC/DC
 13.12.0.024.0000 24 V AC/DC
 13.21.8.230.B000 110...230 V AC Yesly
 13.21.8.230.S000 110...230 V AC Bliss2
 13.22.8.230.B000 110...230 V AC YESLY
 13.52.8.230.B000 110...230 V AC YESLY
 13.31.8.012.4300 12 V AC
 13.31.9.024.4300 24 V DC
 13.31.8.230.4300 230 V AC
 13.61.8.230.0000 110...240 V AC
 13.61.0.024.0000 12...24 V AC/DC
 13.72.8.230.B000 110...230 V AC YESLY BLE white
 13.72.8.230.B002 110...230 V AC YESLY BLE anthracite gray
 13.81.8.230.0000 230 V AC
 13.91.8.230.0000 230 V AC

Technical data

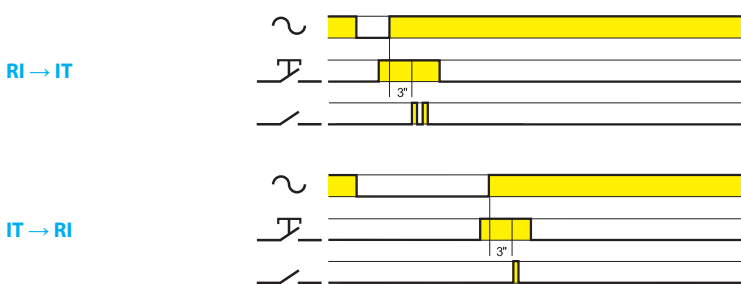
Insulation	13.01.8	13.01.0	13.11 - 13.12	13.31 - 13.61	13.81 - 13.91				
Dielectric strength									
between control circuit and supply V AC	4000	—	—	—	—	—	—	—	—
between control circuit and contacts V AC	4000	4000	—	—	—	—	—	—	—
between R-S-A2 and contacts V AC	—	—	2000	—	—	—	—	—	—
between supply and contacts V AC	4000	4000	—	2000	—	—	—	—	—
between open contacts V AC	1000	1000	1000	1000	1000	1000	1000	1000	1000
Other data	13.01		13.11 - 13.12	13.31	13.61	13.81	13.91	13.21	13.22 13.52 13.72
Power lost to the environment									
without contact current W	2.2	—	—	0.4	1	1.2	0.7	0.4	0.5
with rated current W	3.5	1.5	1.6	1.8	2	1.8	2.2	1.5	1.5
Max cable length for pushbutton connection m	100	100	—	200	200	100	100	100	100
Max. no. of illuminated pushbutton (≤1mA)	—	—	—	10*	15	12	—	5	5
Terminals	13.01		13.11 - 13.12 - 13.31 - 13.61 - 13.72 - 13.81 - 13.91			13.21 - 13.22 - 13.52			
Max. wire size	solid cable	stranded cable	solid cable	stranded cable	solid cable	stranded cable	solid cable	stranded cable	solid cable
mm ²	1 x 6 / 2 x 4	1 x 6 / 2 x 2.5	1 x 6 / 2 x 4	1 x 4 / 2 x 2.5	1 x 2.5 / 2 x 1.5	1 x 2.5 / 2 x 1	1 x 2.5 / 2 x 1	1 x 2.5 / 2 x 1	1 x 2.5 / 2 x 1
AWG	1 x 10 / 2 x 12	1 x 10 / 2 x 14	1 x 10 / 2 x 12	1 x 12 / 2 x 14	1 x 14 / 2 x 16	1 x 14 / 2 x 16	1 x 14 / 2 x 16	1 x 14 / 2 x 16	1 x 14 / 2 x 16
Screw torque Nm	0.8		0.8			0.5			

* For 8.230 version.

Functions for types 13.01, 13.11, 13.12, 13.81, 13.91

Type	Functions	
13.01		Monostable. On closure of a switch between terminals (B2-B3) the output contact will close, and remain so, until the switch opens.
		Step relay (bistable). After every impulse (B1-B2), the output contact changes state - alternately switching from open to closed and vice versa.
13.11 13.12		Call and Reset relay. On momentary closure of the Set switch (S), the output contact closes. Only a momentary closure of the Reset switch (R) will open the output contact.
13.81		(RI) Step relay. After every impulse, the output contact changes state - alternately switching from open to closed and vice versa.
13.91		(RI) Step relay. After every impulse, the output contact changes state - alternately switching from open to closed and vice versa.
		(IT) Timing step relay. On initial impulse the output contact closes and timing starts for the pre-set duration (fixed 10 min); On expiry of the time delay, the output contact opens. During the timing period it is possible to immediately open the contact with a further impulse.

Operating mode setup for type 13.91



- Remove the supply voltage
- Press the control button
- Apply the supply to the relay, keeping the button closed.
After 3 second, the light will flash twice to indicate the selection of the "IT" function, or flash once for "RI" function.

Functions for type 13.61

Type	Functions
13.61.8.230	<p>(RM) Monostable. On closure of a switch between terminal 3 and Line (or Neutral, in case of 3-wire connection) the output contact will close, and remain so, until the switch opens.</p>
	<p>(IT) Timing step relay. On initial impulse the output contact closes and timing starts for the pre-set duration T; On expiry of the time delay, the output contact opens. During the timing period it is possible to immediately open the contact with a further impulse. Switch-off delay time: 30s...20min.</p>
	<p>(RI) Step relay. After every impulse, the output contact changes state - alternately switching from open to closed and vice versa.</p>
	<p>Light ON. With this function set - the output contact stays permanently closed.</p>
13.61.0.024	<p>(RM) Monostable. On closure of a switch between terminal 3 and Line (or Neutral, in case of 3-wire connection) the output contact will close, and remain so, until the switch opens.</p>
	<p>(IT) Timing step relay. On initial impulse the output contact closes and timing starts for the pre-set duration T; On expiry of the time delay, the output contact opens. During the timing period it is possible to immediately open the contact with a further impulse. Switch-off delay time: 30s...20min.</p>
	<p>(RI) Step relay. After every impulse, the output contact changes state - alternately switching from open to closed and vice versa.</p>
	<p>Light ON. With this function set - the output contact stays permanently closed.</p>

Functions for type 13.22, 13.72 and 13.21.8.230.B000

Relay settings

Multifunction electronic relays can be configured with the Finder TOOLBOX App, available for iOS or Android systems. This product is ready-to-use preset with the factory setting (RI) Step relay on both channels.

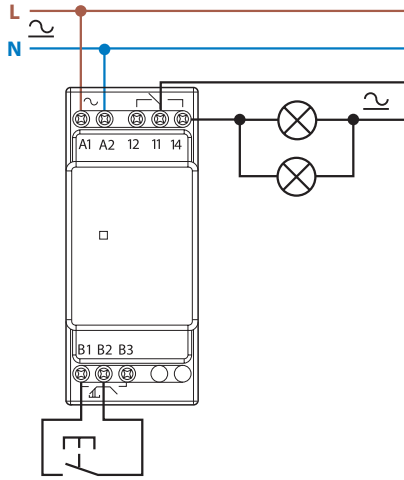
Type	Functions	
13.21-B000 13.22 13.72		<p>(RM) Monostable relay. On closure of the switch the output will close, and remain so, until the switch opens.</p>
		<p>(RI) Step relay (pushbutton control). After every impulse, the output contact changes state - alternately switching from open to closed and vice versa.</p>
		<p>(RIa) Step relay - lighting switch control (Type 13.22 and 13.21.8.230.B000 only). Each time a lighting switch is activated, the output contact changes state. The output state can also be changed using YESLY wireless pushbutton, a smartphone, or voice assistants. Ideal for converting a traditional lighting system using one, two, or four way switches, into a Smart system. (See page 17).</p>
		<p>(LE) Asymmetric flasher (starting pulse on) with control signal. Power is permanently applied to the relay. Closing Signal Switch (S) causes the output contacts to transfer immediately and cycle between ON (T1) and OFF (T2), until opened.</p>
		<p>(DE) Interval with control signal on. Power is permanently applied to the relay. On momentary or maintained closure of Signal Switch (S), the output contacts transfer, and remain so for the duration of the preset delay, after which they reset.</p>
		<p>(BE) Staircase timer. On initial impulse the output contact closes and timing starts for the pre-set duration; subsequent impulses during the timing period will extend the timing period by the full pre-set value. On expiry of the time delay, the output contact opens.</p>
		<p>(ME) Staircase timer + Staircase maintenance. In addition to the Staircase timer function (BE), an impulse of ≥ 5 seconds will close the output contact for 60 minutes, after which time the contact will open. Ideal for maintenance or cleaning activities. The 60 minute timing can be interrupted by a further impulse of ≥ 5 seconds, when the output contact then opens.</p>
		<p>(BP) Staircase timer with switch off early warning. On initial impulse the output contact closes and the timing starts for the pre-set duration. After the timing period, the output contact blinks off once; 10 seconds later the contact blinks off twice, and after a further 10 seconds the contact opens. During the pre-set and 20 second warning time, it is possible, by a further impulse, to extend the time by the full pre-set value.</p>
		<p>(MP) Staircase timer with switch off early warning + staircase maintenance. In addition to the Staircase timer function (BP), an impulse of ≥ 5 seconds will close the output contact for 60 minutes, after which time the output contact blinks off once; 10 seconds later the contact blinks off twice, and after a further 10 seconds the contact will open. Ideal for maintenance or cleaning activities. The 60 minute timing can be interrupted by a further impulse of ≥ 5 seconds, when the output contact then opens.</p>

Wiring diagrams (13.01, 13.11, 13.12 and 13.31)

Type 13.01

Step wiring diagram

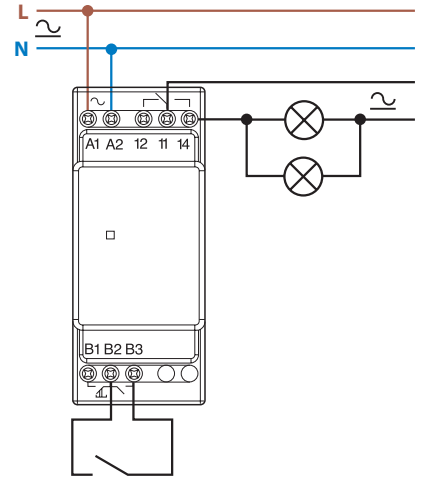
Red LED indication:
Continuous = relay ON



Type 13.01

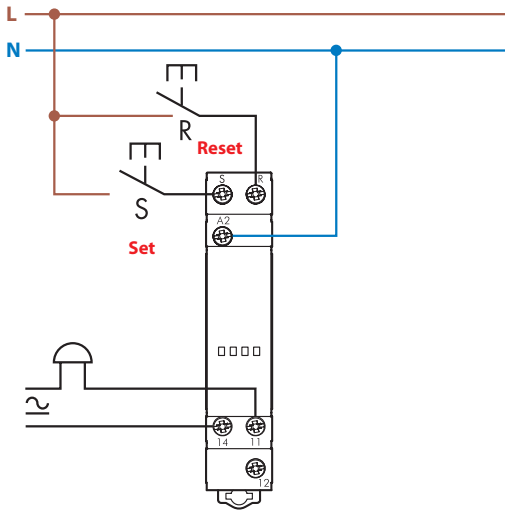
Monostable wiring diagram

Red LED indication:
Continuous = relay ON



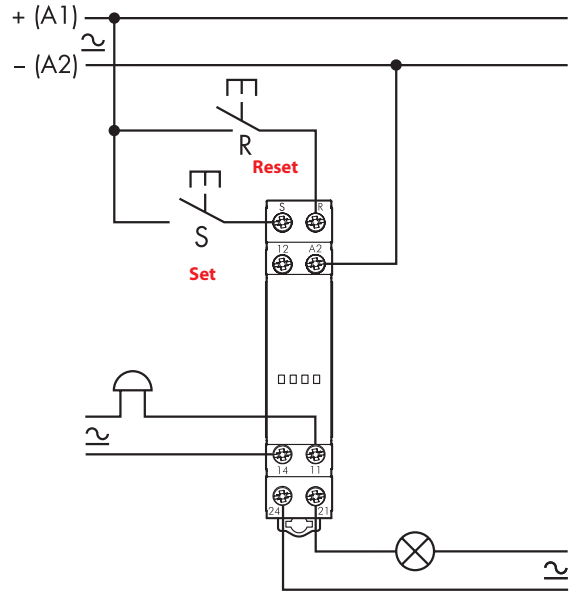
Type 13.11

Call & reset relay



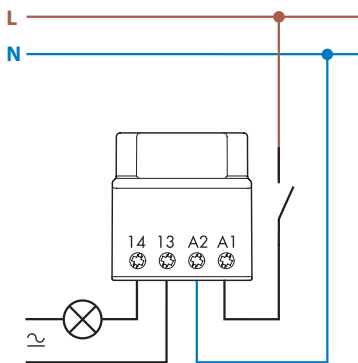
Type 13.12

Call & reset relay



Type 13.31

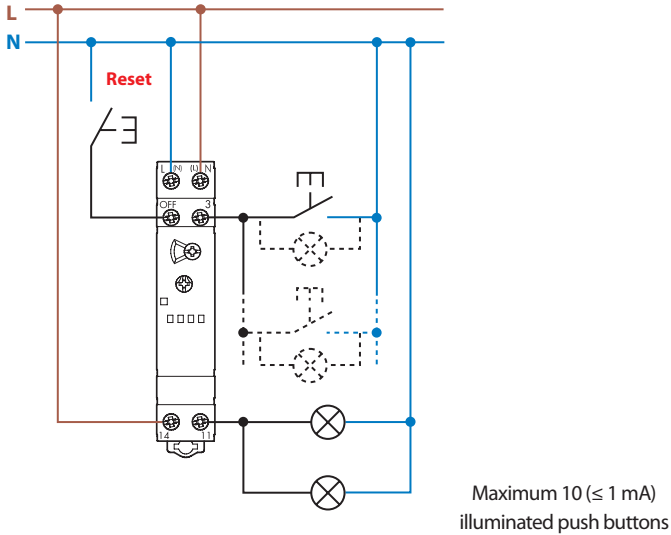
Connection



Wiring diagrams (13.61)

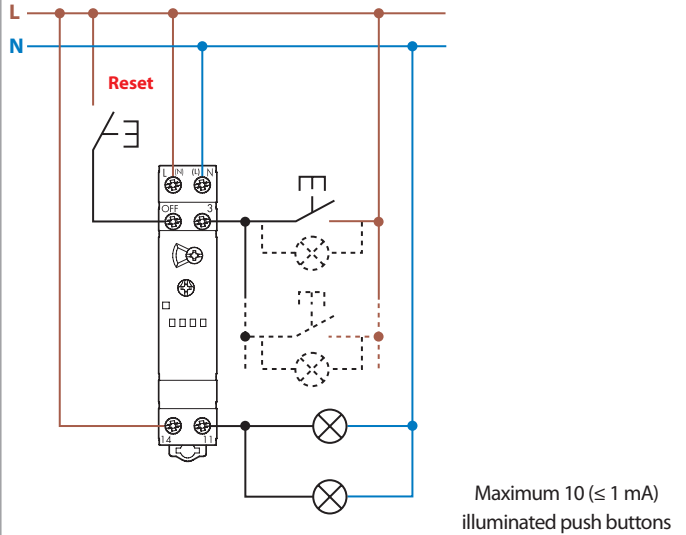
Type 13.61.8.230

3 wire connection
Red LED indication:
Continuous = relay ON
Blinking = relay OFF



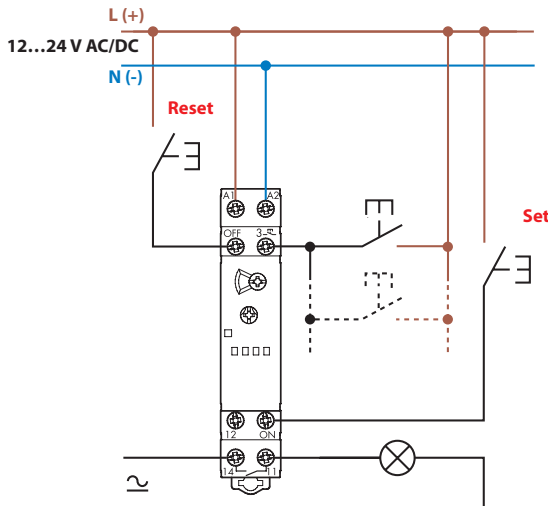
Type 13.61.8.230

4 wire connection
Red LED indication:
Continuous = relay ON
Blinking = relay OFF

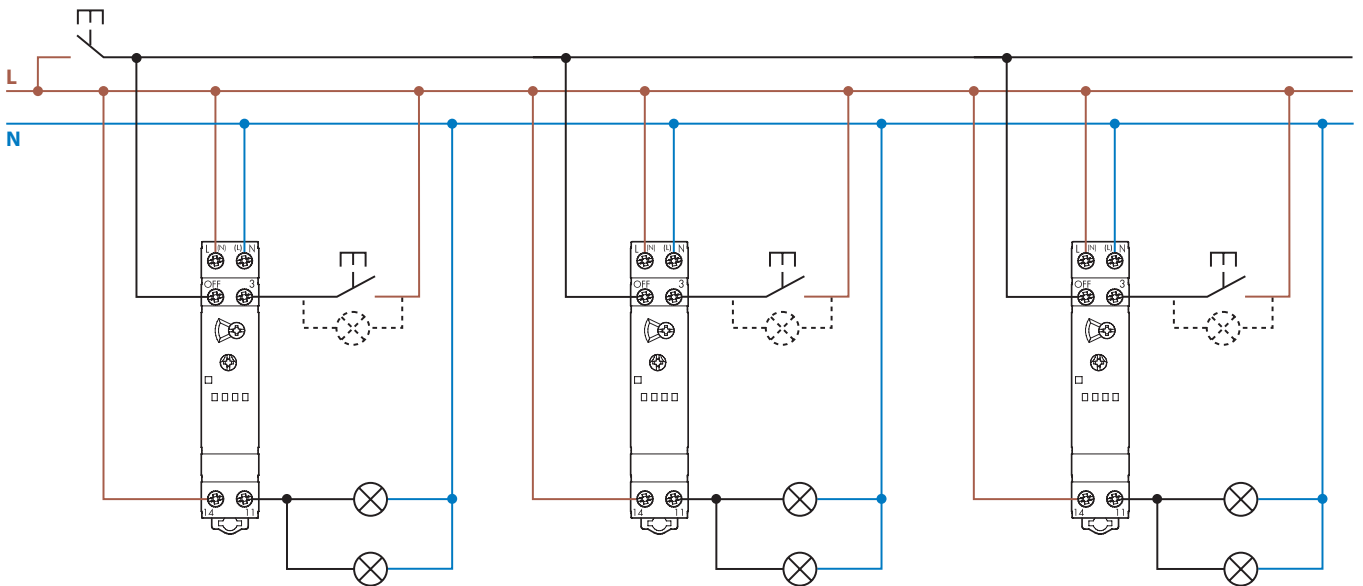


Type 13.61.0.024

4 wire connection
Red LED indication:
Continuous = relay ON
Blinking = relay OFF



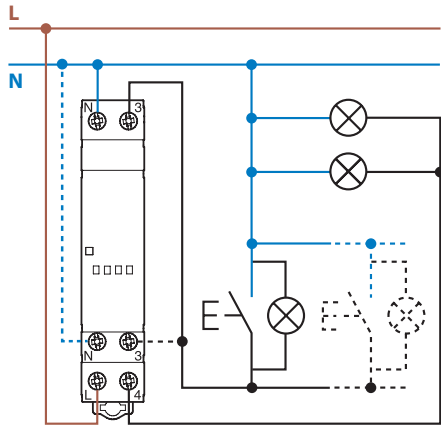
Type 13.61.8.230 - Examples of multiple 4 wire connection with centralized reset pushbutton



Wiring diagrams (13.81, 13.91 and 13.21.8.230.B000)

Type 13.81

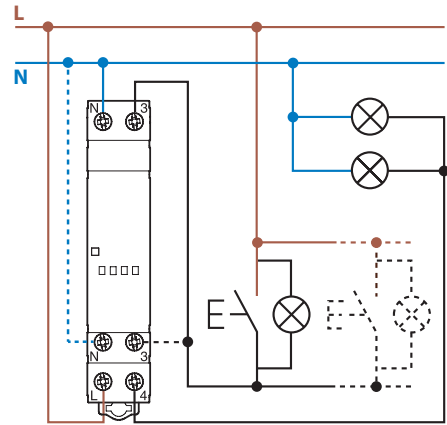
3 wire connection
Red LED indication: a
Continuous = relay ON
Blinking = relay OFF



Maximum 15 (≤ 1 mA)
illuminated push buttons

Type 13.81

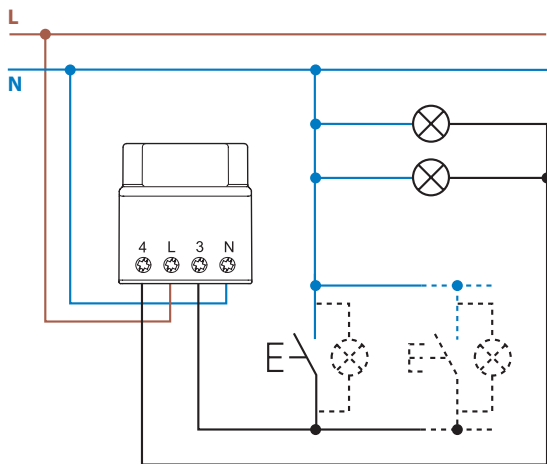
4 wire connection
Red LED indication:
Continuous = relay ON
Blinking = relay OFF



Maximum 15 (≤ 1 mA)
illuminated push buttons

Type 13.91

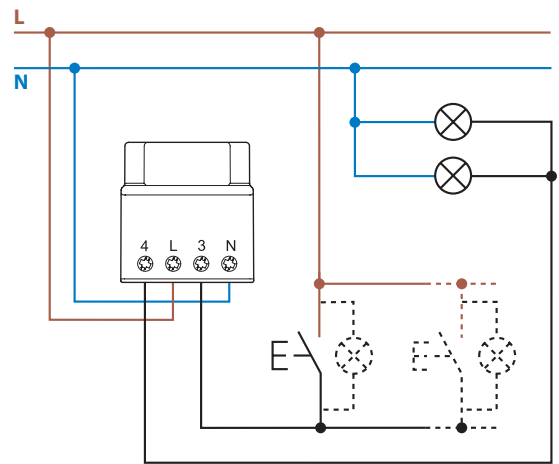
3 wire connection



Maximum 12 (≤ 1 mA)
illuminated push buttons

Type 13.91

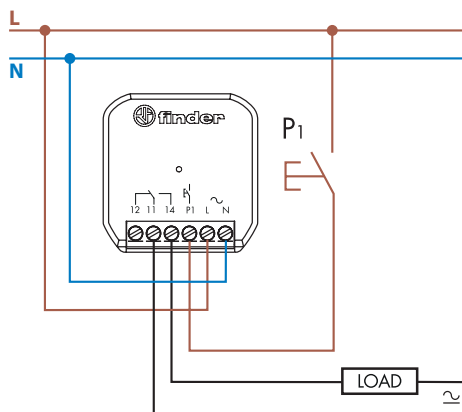
4 wire connection



Maximum 12 (≤ 1 mA)
illuminated push buttons

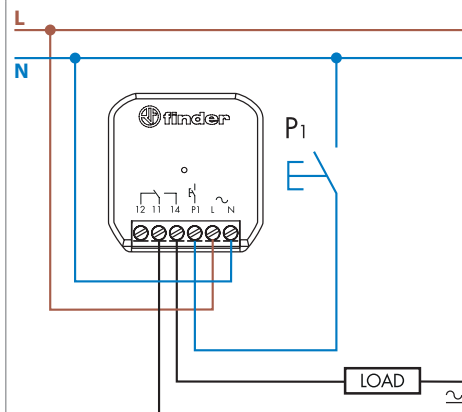
Type 13.21.8.230.B000

Wiring with pushbutton to phase



Type 13.21.8.230.B000

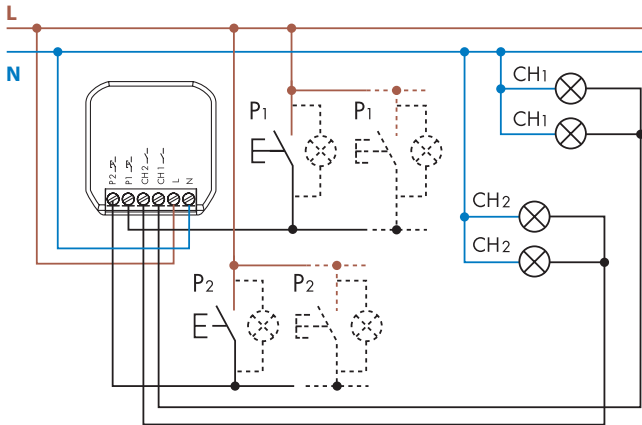
Wiring with pushbutton to neutral



Note: If the load is powered by a phase other than the one that powers the 13.21, a 50% reduction in the lamp capacity must be considered (set the "Different phase" function from the Toolbox Plus app).

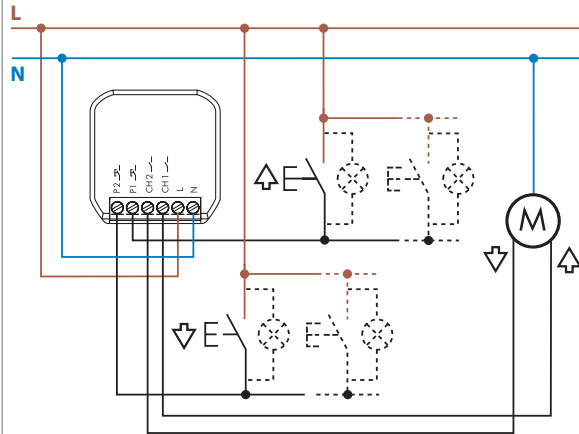
Wiring diagrams (13.21.8.230.S000, 13.22, 13.S2 and 13.72)

Type 13.22
4 wire connection



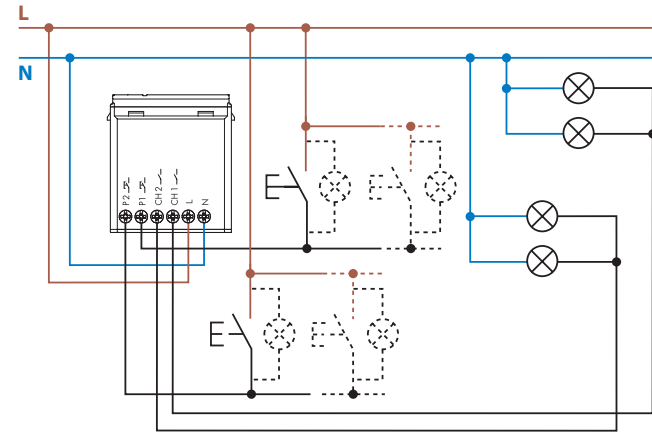
Maximum 5 (≤ 1 mA)
illuminated push buttons

Type 13.S2
4 wire connection



Maximum 5 (≤ 1 mA)
illuminated push buttons

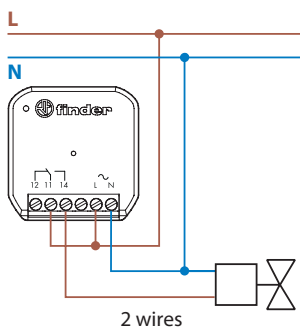
Type 13.72
4 wire connection



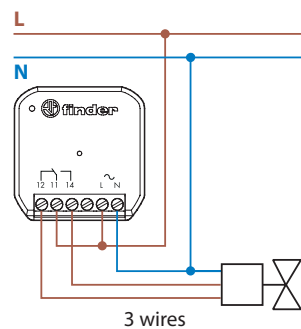
Maximum 5 (≤ 1 mA)
illuminated push buttons

Type 13.21.8.230.S000

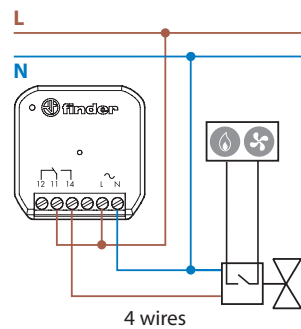
Solenoid valve with 2, 3 and 4 wires or direct connection



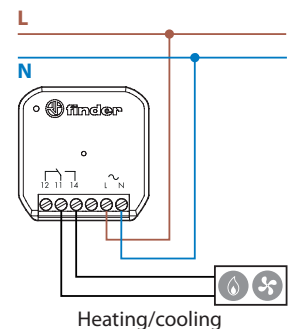
2 wires



3 wires



4 wires



Heating/cooling

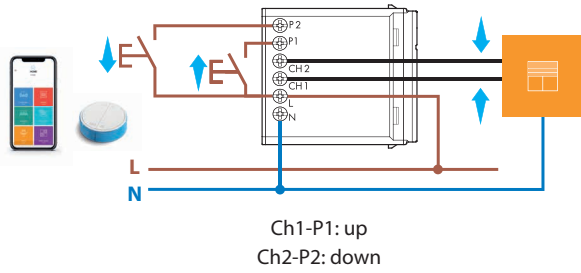
Example of connection with a 230 V AC solenoid valve, always refer to the technical characteristics of the solenoid valve.

K

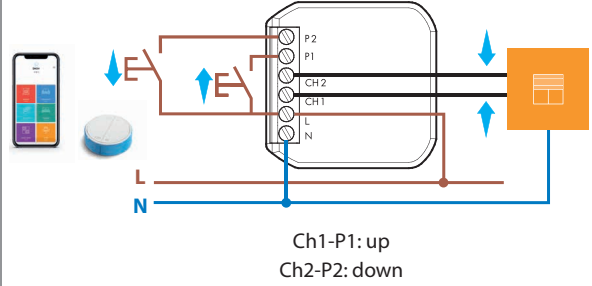
Examples of applications

Function TP - Roller Blinds, Shutters and Curtains

Type 13.72

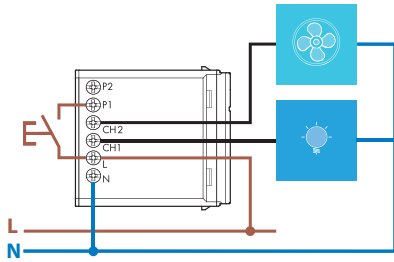


Type 13.S2

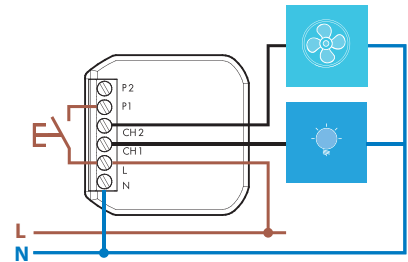


Function VB - Bathroom light + fan

Type 13.72

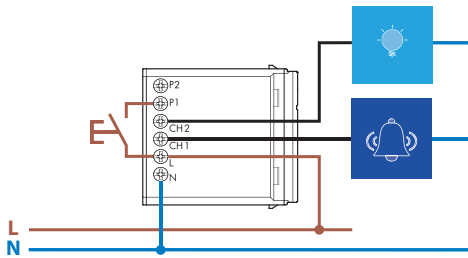


Type 13.22

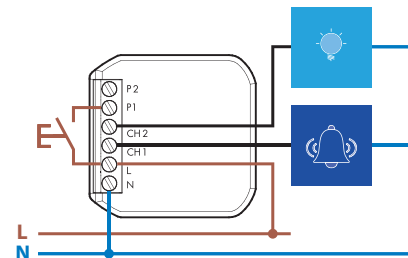


Function CP - Ringbell + Lights

Type 13.72



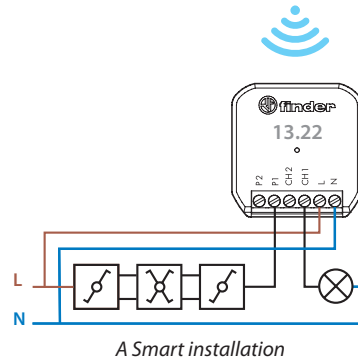
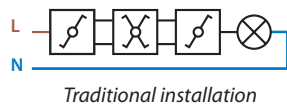
Type 13.22



Type 13.22 - Special function R1a - Step relay (switch control).

Ideal for converting a traditional lighting system using one, two, or four way switches, into a Smart system.

The Smart system controls with just a momentary push to a wired, YESLY wireless or Smartphone pushbutton

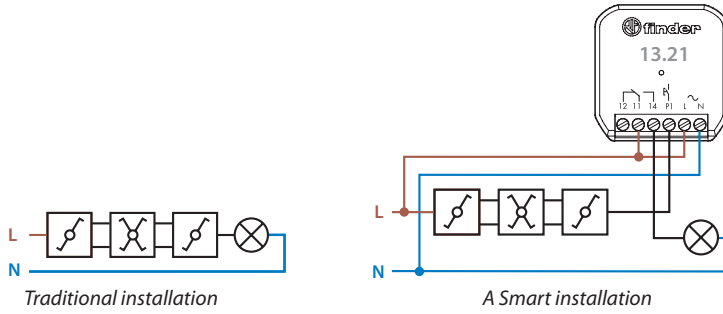


Examples of applications

Type 13.21.8.230 - Special function R1a - Step relay (switch control).

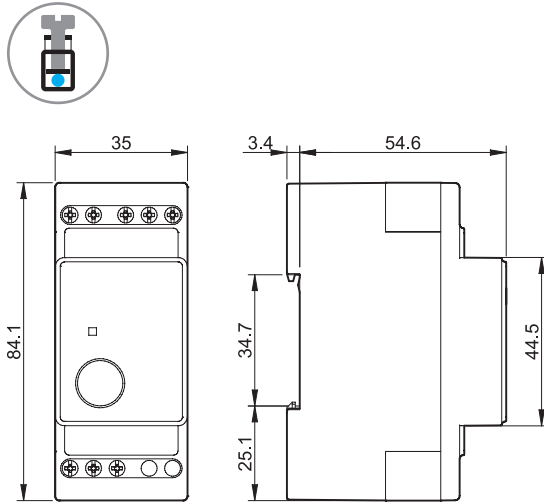
**Ideal for converting a traditional lighting system using one, two, or four way switches, into a Smart system.
Any existing system can be made Smart with minimum change or disruption**

The smart system can be controlled by: wireless buttons, smartphone and gateway

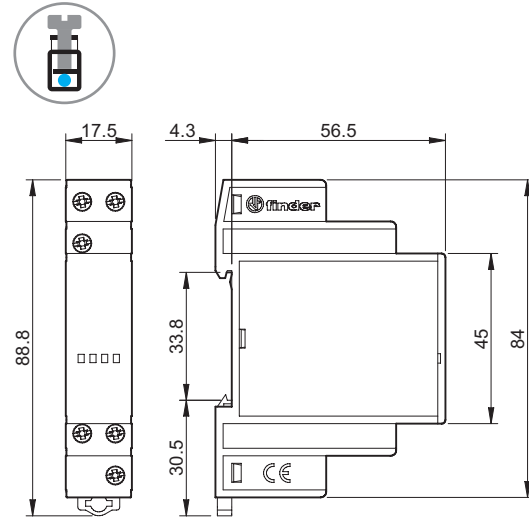


Outline drawings

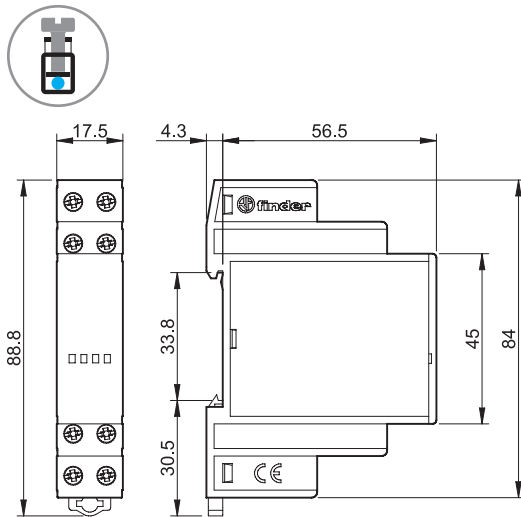
Type 13.01
Screw terminal



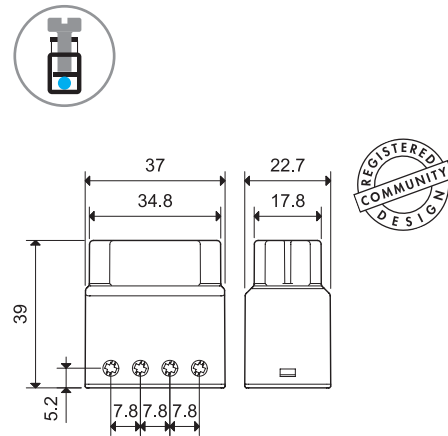
Type 13.11
Screw terminal



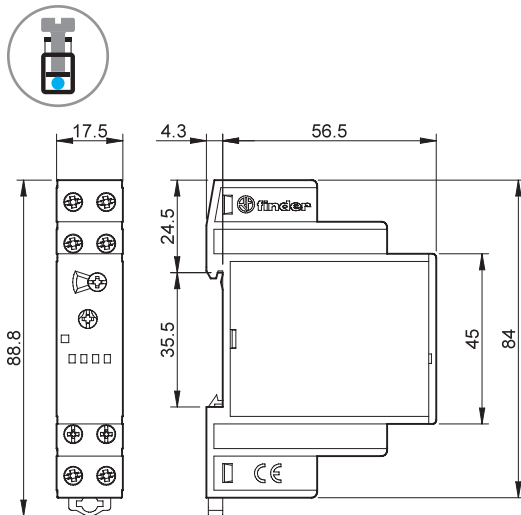
Type 13.12
Screw terminal



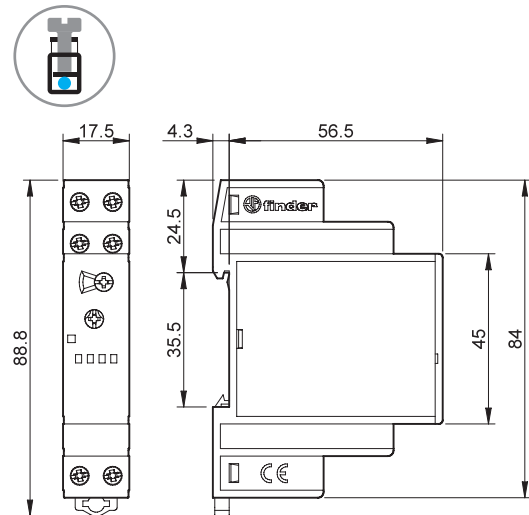
Types 13.31/13.91
Screw terminal



Type 13.61.0.024.0000
Screw terminal

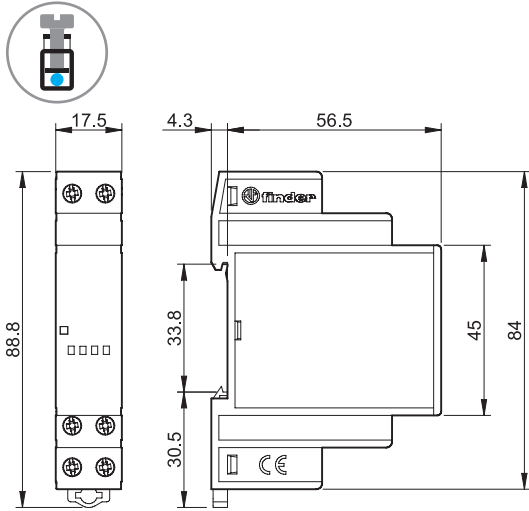


Type 13.61.8.230.0000
Screw terminal

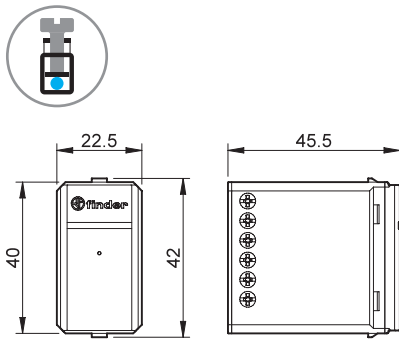


Outline drawings

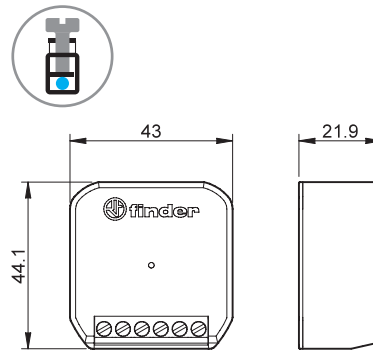
Type 13.81
Screw terminal



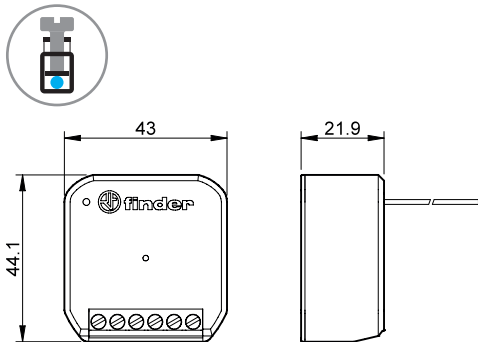
Type 13.72
Screw terminal



Type 13.21 / 13.22 / 13.S2
Screw terminal



Type 13.21.8.230.S000
Screw terminal



K

Accessories



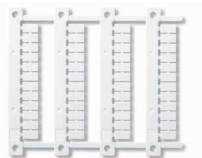
011.01

Adaptor for panel mounting , for type 13.01, 35 mm wide	011.01
--	--------



020.01

Adaptor for panel mounting , for type 13.11, 13.12, 13.61 and 13.81, 17.5 mm wide	020.01
--	--------



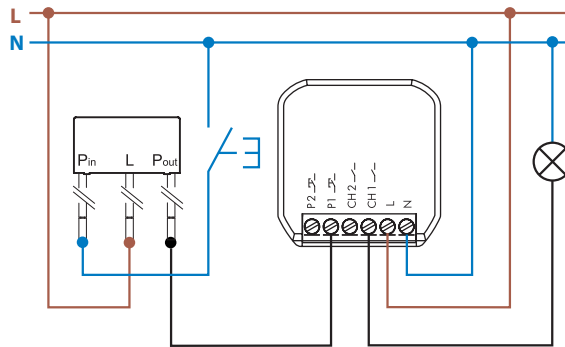
060.48

Sheet of marker tags (CEMBRE Thermal transfer printers) for relays types 13.11, 13.12, 13.61 and 13.81 (48 tags), 6 x 12 mm	060.48
--	--------



013.00

Pushbutton phase/neutral converter. Use this with a pre-existing neutral wired pushbutton when retro fitting a device designed only for phase connected pushbuttons. This avoids any radical change to the existing wiring.	013.00
--	--------

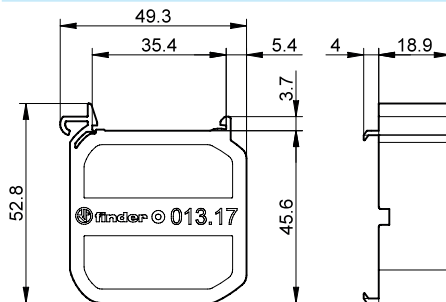


Application example with type 13.22



013.17

Adapter for DIN rail , to install devices 13.22, 13.21, 13.52 in the electrical panel.	013.17
---	--------



K

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [General Purpose Relays](#) category:

Click to view products by [Finder](#) manufacturer:

Other Similar products are found below :

[PCN-105D3MH,000](#) [59641F200](#) [5JO-1000CD-SIL](#) [5X827E](#) [5X837F](#) [5X840F](#) [5X842F](#) [5X848E](#) [LY2N-AC120](#) [LY2-US-AC120](#) [LY2-US-DC24](#) [LY3-US-AC120](#) [LY4F-UA-DC12](#) [LY4F-UA-DC24](#) [LY4F-US-AC120](#) [LY4F-US-AC240](#) [LY4F-US-DC24](#) [LY4F-VD-AC110](#)
[M115C60](#) [M115N010](#) [M115N0150](#) [603-12D](#) [60HE1-5DC](#) [60HE2S-12DC](#) [61211T0B4](#) [61212T400](#) [61222Q400](#) [61243B600](#) [61243C500](#)
[61243Q400](#) [61311BOA2](#) [61311BOA6](#) [61311BOA8](#) [61311C0A2](#) [61311COA1](#) [61311COA6](#) [61311F0A2](#) [61311QOA1](#) [61311QOA4](#)
[61311T0D6](#) [61311TOA6](#) [61311TOA7](#) [61311TOB3](#) [61311TOB4](#) [61311U0A6](#) [61312Q600](#) [61312T400](#) [61312T600](#) [61313U200](#) [61313U400](#)