

Low noise electronic step relays



Call and reset switches for bathrooms



Bathroom lighting control



Bedroom light control



Living room light control



Office lighting control



13
SERIES

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Type 13.01 - Electronic step Bistable or monostable relay
 - Selectable Step or Monostable operation
 - Suitable for SELV applications and available also for supply 12 and 24 V AC/DC

Type 13.81 - Low noise electronic step relay Rail mount, 1 Pole

Type 13.91 - Low noise electronic step relay and timing step relay Switch box mount, 1 Pole
 - Fixed time (10 minutes) timing function selectable
 - 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 ...

- 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
- 35 mm rail (EN 60715) mount
- Cadmium free contact material



* With DC Bistable function: (12...13.2)V DC
 For outline drawing see page 13



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



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



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

Contact specification		13.01		13.81		13.91	
Contact configuration		1 CO (SPDT)		1 NO (SPST-NO)		1 NO (SPST-NO)	
Rated current	A	16		16		10	
Inrush current/specific energy (I ² t)	A/A ² s	120/3.9		209/16.5		170/9	
Rated voltage/							
Maximum switching voltage	V AC	250/400		230/—		230/—	
Rated load AC1	VA	4000		3700		2300	
Rated load AC15 (230 V AC)	VA	750		750		450	
Nominal lamp rating:							
230 V incandescent/halogen W		2500		3000		800	
fluorescent tubes with electronic ballast W		1000		1500		500	
fluorescent tubes with electromagnetic ballast W		750		1000		350	
LED 230 V W		120		300		200	
LED surface luminaires W		250		600		250	
LED strips W		2000		3200		2000	
LV halogen or LED with electronic ballast W		400		1000		300	
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		13.01		13.81		13.91	
Nominal voltage (U _N)	V AC (50/60 Hz)	110...125	230...240	230		230	
	V DC/AC (50/60 Hz)	12	24	—		—	
Rated power	VA (50/60 Hz)/W	2.5/2.5		3/1.2		2/1	
Operating range	V AC (50/60 Hz)	90...130	184...253	(0.8...1.1)U _N		(0.8...1.1)U _N	
	V DC/AC (50/60 Hz)	10.8*...13.2	20.6...33.6	—		—	
Technical data		13.01		13.81		13.91	
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		—		—	
Ambient temperature range	°C	-10...+60		-10...+60		-10...+50	
Protection category		IP 20		IP 20		IP 20	
Approvals (according to type)		CE UK EAC		CE UK EAC		CE UK EAC	

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Low noise electronic multifunction step relays

Type 13.61.0.024.0000 - Electronic multifunction step relays Set and reset feature

- Reset feature, for centralized off command
- Set feature, for centralized on command

Type 13.61.8.230.000x - Electronic multifunction step relays Reset feature

- Reset feature, for centralized off command

Type 13.62.8.230.0001 - Electronic multifunction step relays Reset feature

- Reset feature, for centralized off command
- In case of power failure, when power is restored, the output returns to the state it was in before the power failure

- 12...24 V AC/DC and 110...240 V AC supply versions
- Control input can be continuously applied
- "Zero-crossing" load switching
- Much quieter than electromechanical step relays
- 35 mm rail (EN 60715) mount
- Cadmium free contact material

13.61/13.62
Box clamp



For outline drawing see page 13

Contact specification

Contact configuration	1 CO (SPDT)	1 NO (SPST-NO)	2 NO (DPST-NO)
Rated current	A	16	10
Inrush current/specific energy (I ² t)	A/A ² s	120/3.9	209/16.5
Rated voltage/ Maximum switching voltage	V AC	250/400	230/—
Rated load AC1	VA	4000	2300
Rated load AC15 (230 V AC)	VA	750	450
Nominal lamp rating:			
230 V incandescent/halogen W	2500	3000	1000
fluorescent tubes with electronic ballast W	1000	1500	500
fluorescent tubes with electromagnetic ballast W	750	1000	350
LED 230 V W	120	300	150
LED surface luminaires W	250	600	200
LED strips W	2000	3200	2000
LV halogen or LED with electronic ballast W	400	1000	300
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)	—	110...240	110...240
	V DC/AC (50/60 Hz)	12...24	—	—
Rated power AC/DC	VA (50/60 Hz)/W	1/0.5	3.2/1	3.2/1
Operating range	V AC (50/60 Hz)	—	90...264	90...264
	V DC/AC (50/60 Hz)	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	2000	2000	—
Ambient temperature range	°C	-10...+60	-10...+60	-10...+60
Protection category		IP 20	IP 20	IP 20

Approvals (according to type)



13.61.0.024.0000



- 1 CO (SPDT)
- Reset feature, for centralized off command (3s)
- Set feature, for centralized on command
- Multifunction:
 - step relay (RI)
 - timing step relay (30 s...20 min) (IT)
 - monostable (RM)
 - light ON
- 35 mm rail (EN 60715) mount
- 17.5 mm wide

13.61.8.230.000x



- 1 NO (SPST-NO)
- Reset feature, for centralized off command:
 - reset 3s (13.61-0000)
 - reset 1s (13.61-0001)
- Functions:
 - step relay (RI)
 - timing step relay (30 s...20 min) (IT)
 - monostable (RM)
 - light ON
- 35 mm rail (EN 60715) mount
- 17.5 mm wide

NEW

13.62.8.230.0001



- Output: double pole breaking (L and N)
- In case of a power failure, when power is restored, the output returns to the state it was in before the power failure
- Terminal Reset for central OFF (1s)
- Functions:
 - step relay (RI)
 - timing step relay (IT)
 - step relay with power failure restoration (Rim)
 - timing step relay with power failure restoration (ITm)
- 35 mm rail (EN 60715) mount
- 17.5 mm wide

- Type 13.11 - Call & Reset Relay**
Rail mount, 1 Pole
- Call relay with reset command suitable for residential and commercial applications: public bathroom, hospital, hotel
- Type 13.12 - Call & Reset Relay**
Rail mount, 2 Pole
- Call relay with reset command suitable for residential and commercial applications: public bathroom, hospital, hotel
- Type 13.31 - Electromechanical monostable relay**
Switch box mount, 1 Pole
- 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 ...
- 35 mm rail (EN 60715) or flange mount
 - Cadmium free contact material

13.11/13.12/13.31
Box clamp



* During impulse only.

For outline drawing see page 13

Contact specification

Contact configuration	1 CO (SPDT)	1 CO (SPDT) + 1 NO (SPST-NO)	1 NO (SPST-NO)
Rated current A	12	8	12
Inrush current/specific energy (I ² t) A/A ² s	—	—	170/9
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	—	—	800
fluorescent tubes with electronic ballast W	—	—	400
fluorescent tubes with electromagnetic ballast W	—	—	300
230 V LED W	—	—	200
LED surface luminaires W	—	—	250
LED strips W	—	—	2000
LV halogen or LED with electronic ballast W	—	—	300
Minimum switching load mW (V/mA)	500 (5/5)	300 (5/5)	1000 (10/10)
Standard contact material	AgNi	AgNi	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 VA (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 V AC	1000	1000	1000
supply - contacts V AC	2000	2000	2000
Ambient temperature range °C	-10...+60	-10...+60	-10...+60
Protection category	IP 20	IP 20	IP 20

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Approvals (according to type)

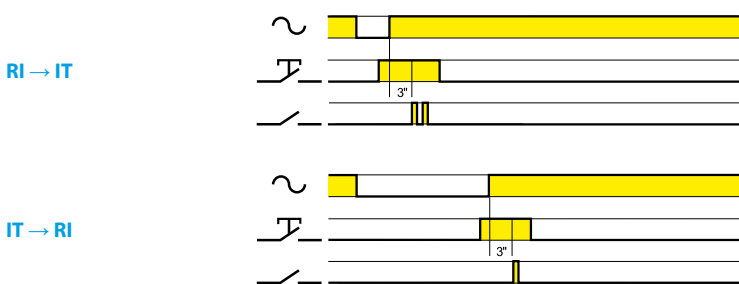


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Functions for types 13.01, 13.11, 13.12, 13.81, 13.91

Type	Functions	
13.01		<p>Monostable. On closure of a switch between terminals (B2-B3) the output contact will close, and remain so, until the switch opens.</p>
		<p>Step relay (bistable). After every impulse (B1-B2), the output contact changes state - alternately switching from open to closed and vice versa.</p>
13.11 13.12		<p>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.</p>
13.81		<p>(RI) Step relay. After every impulse, the output contact changes state - alternately switching from open to closed and vice versa.</p>
13.91		<p>(RI) Step relay. After every impulse, the output contact changes state - alternately switching from open to closed and vice versa.</p>
		<p>(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.</p>

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. * $T \geq 1s$. - Type 13.61.8.230.0001</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: 30 s...20 min. * $T \geq 1s$. - Type 13.61.8.230.0001</p>
	<p>(RI) Step relay. After every impulse, the output contact changes state - alternately switching from open to closed and vice versa. * $T \geq 1s$. - Type 13.61.8.230.0001</p>
	<p>Light ON. With this function set - the output contact stays permanently closed. * $T \geq 1s$. - Type 13.61.8.230.0001</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. * $T \geq 1s$.</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: 30 s...20 min.</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>

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Functions for type 13.62

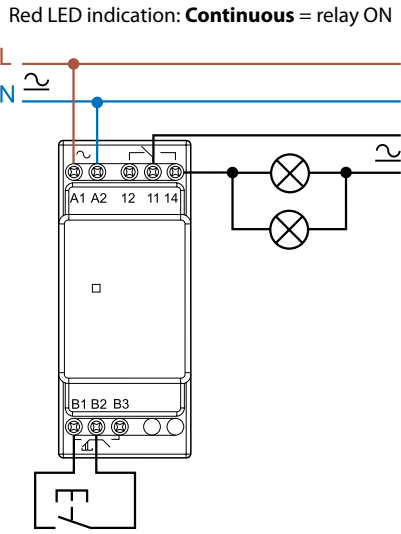
Type	Functions	
13.62.8.230		<p>(RI) Step relay. After every impulse, the output contact changes state - alternately switching from open to closed and vice versa.</p>
		<p>(RI)m Step relay with power failure restoration. After every impulse, the output contact changes state - alternately switching from open to closed and vice versa. In case of power failure, when power is restored, the output returns to the state it was in before the power failure.</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: 30 s...20 min.</p>
		<p>(IT)m Timing step relay with power failure restoration. 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: 30 s...20 min. In case of a power failure, when power is restored, the output returns to the state it was in before the power failure.</p>

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Wiring diagrams

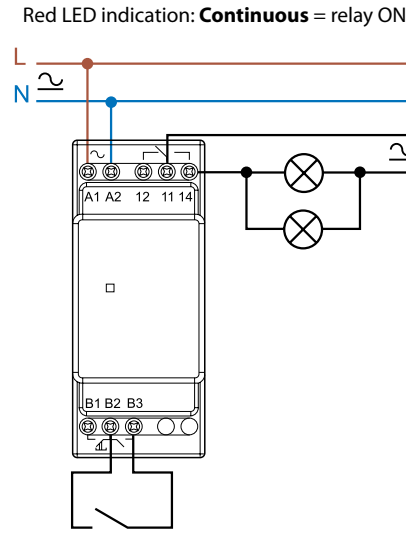
Type 13.01

Step wiring diagram



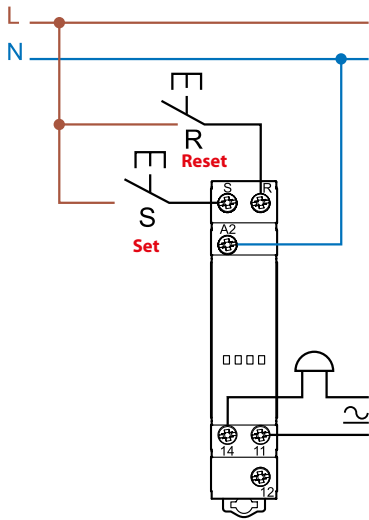
Type 13.01

Monostable wiring diagram



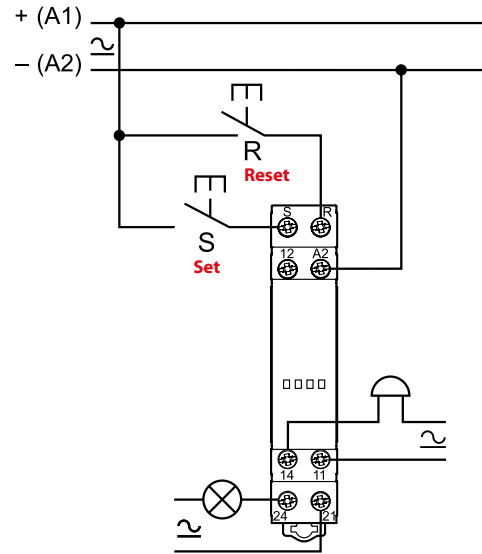
Type 13.11

Call & reset relay



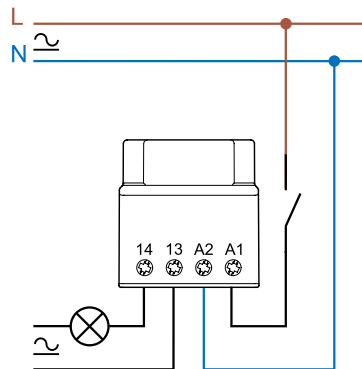
Type 13.12

Call & reset relay



Type 13.31

Connection

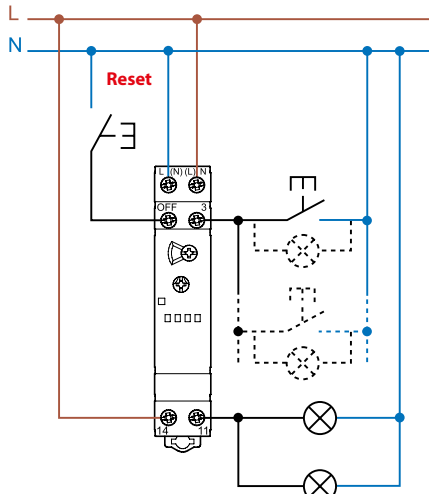


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Wiring diagrams

Type 13.61.8.230
3 wire connection

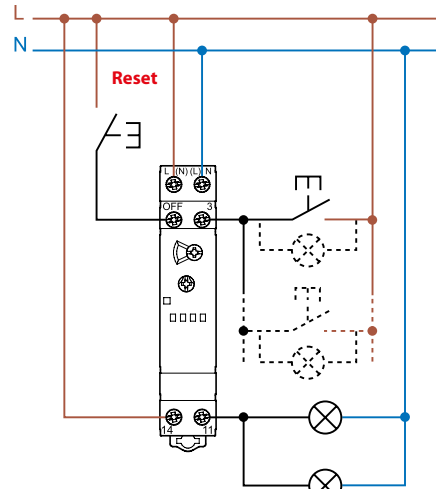
Red LED indication: **Continuous** = relay ON; **Flashing** = relay OFF



Maximum 10 mA illuminated push-buttons

Type 13.61.8.230
4 wire connection

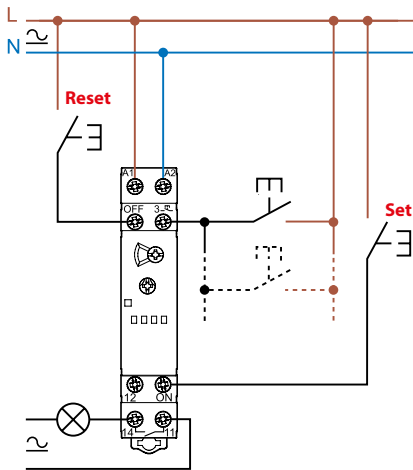
Red LED indication: **Continuous** = relay ON; **Flashing** = relay OFF



Maximum 10 mA illuminated push-buttons

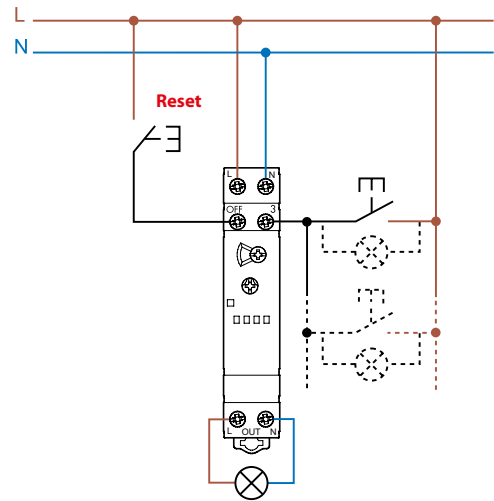
Type 13.61.0.024
4 wire connection

Red LED indication: **Continuous** = relay ON; **Flashing** = relay OFF

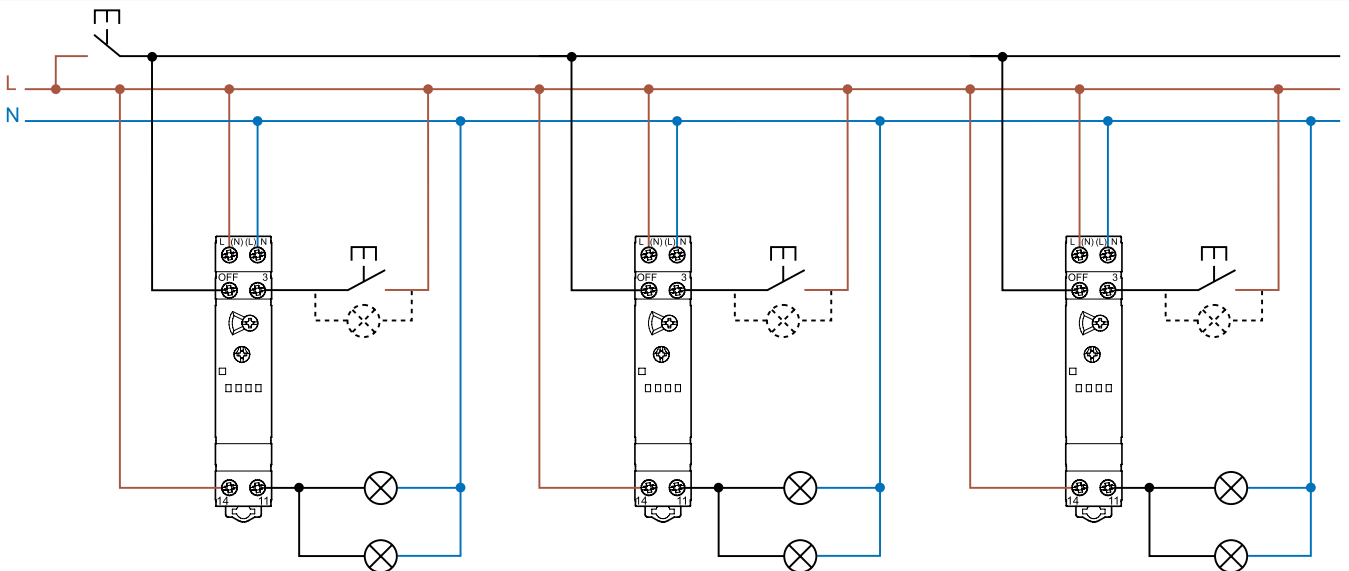


Type 13.62.8.230
4 wire connection

Red LED indication: **Continuous** = relay ON; **Flashing** = relay OFF



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

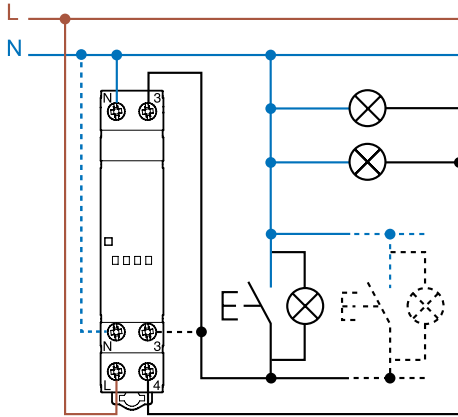


Wiring diagrams

Type 13.81

3 wire connection

Red LED indication: **Continuous** = relay ON; **Flashing** = relay OFF

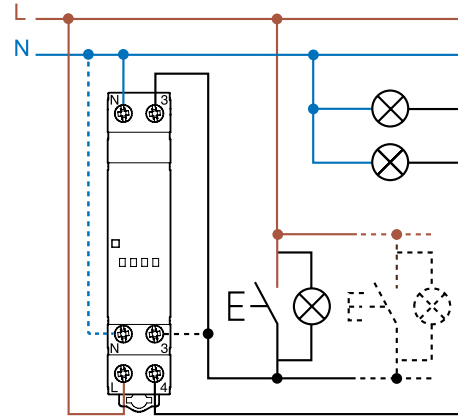


Maximum 15 mA illuminated push-buttons

Type 13.81

4 wire connection

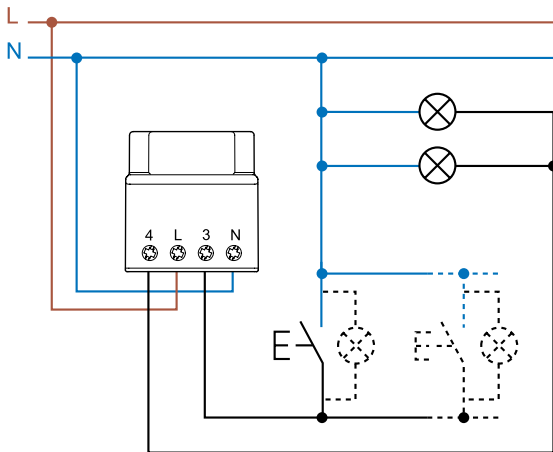
Red LED indication: **Continuous** = relay ON; **Flashing** = relay OFF



Maximum 15 mA illuminated push-buttons

Type 13.91

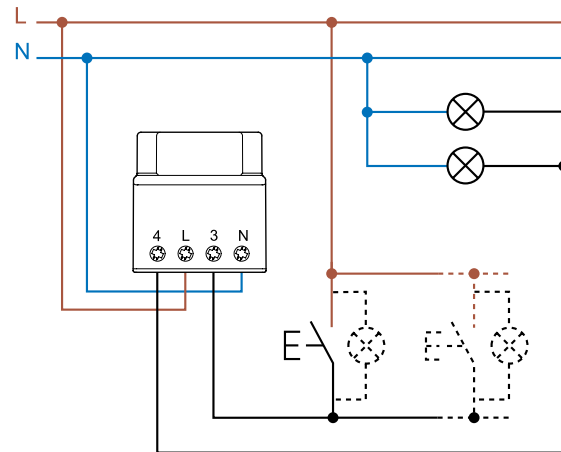
3 wire connection



Maximum 12 mA illuminated push-buttons

Type 13.91

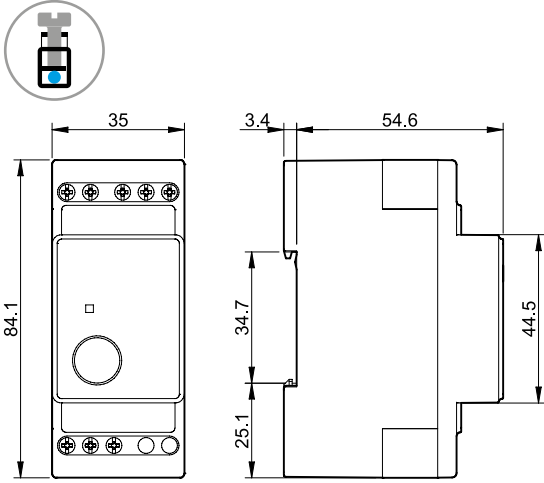
4 wire connection



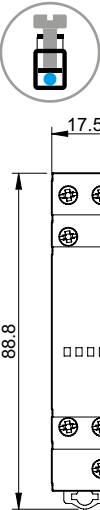
Maximum 12 mA illuminated push-buttons

Outline drawings

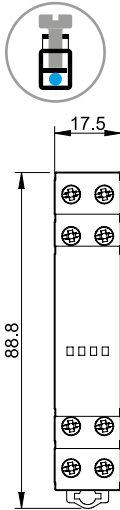
Type 13.01
Box clamp



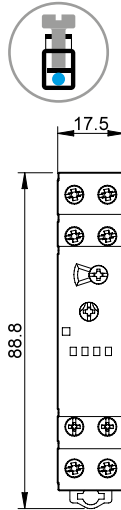
Type 13.11
Box clamp



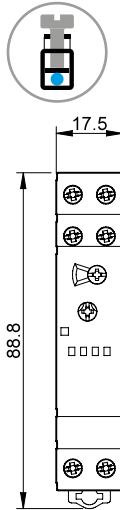
Type 13.12
Box clamp



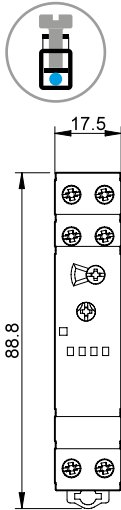
Type 13.61.0.024.0000
Box clamp



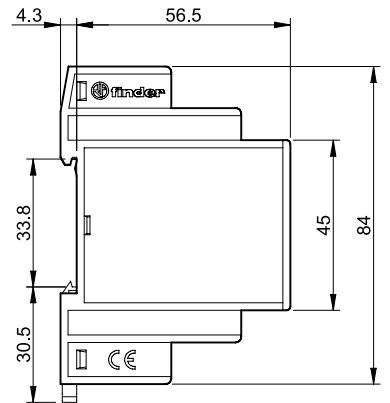
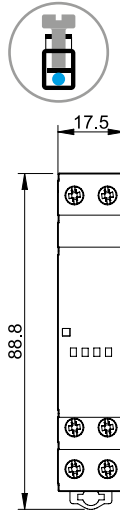
Type 13.61.8.230.000x
Box clamp



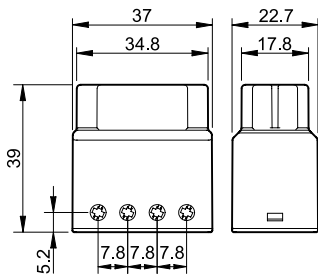
Type 13.62
Box clamp



Type 13.81
Box clamp



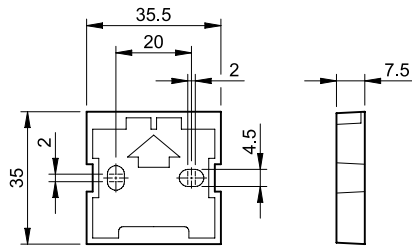
Type 13.31/13.91
Box clamp



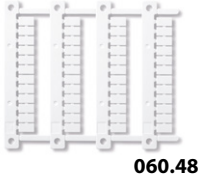
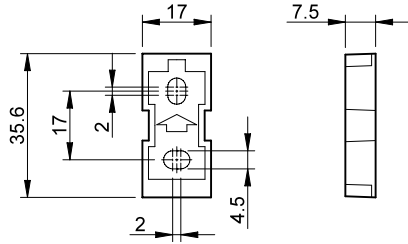
Accessories



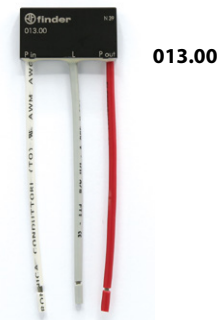
Adaptor for panel mounting, for type 13.01, 35 mm wide 011.01



Adaptor for panel mounting, for type 13.11, 13.12, 13.61, 13.62 and 13.81, 17.5 mm wide 020.01



Sheet of marker tags (CEMBRE Thermal transfer printers) for relays types 13.11, 13.12, 13.61, 13.62 and 13.81 (48 tags), 6 x 12 mm 060.48



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

