- 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



13.81



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



igotimesfinder



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

| For | outline | drawing | ۵۵۶ | nana | 10 |
|-----|---------|---------|-----|------|----|
| LOI | outime | urawing | see | page | 10 |

| Contact specification | | | | | |
|-------------------------------------|--|------------------------|------------------------|--|--|
| Contact configuration | | 1 NO (SPST-NO) | 1 NO (SPST-NO) | | |
| Rated current/Maximum peak | current A | 16/30 (120 - 5 ms) | 16/20 (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 incand | lescent/halogen W | 3000 | 1000 | | |
| | scent tubes with electronic ballast W | 1500 | 500 | | |
| fluore | scent tubes with | | | | |
| electrome | echanical ballast W | 1000 | 350 300 300 | | |
| | CFL W | 600 | | | |
| | 230 V LED W | 600 | | | |
| | gen or LED with electronic ballast W | 600 | 300 | | |
| | ogen or LED with echanical 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 | | J . | , i | | |
| Nominal voltage (U _N) | V AC (50/60 Hz) | 230 | 230 | | |
| 5 | V DC | _ | _ | | |
| Rated power | V A (50 Hz)/W | 3/1.2 | 2/1 | | |
| Operating range | AC (50 Hz) | (0.81.1)U _N | (0.81.1)U _N | | |
| | DC | _ | _ | | |
| Technical data | | | | | |
| Electrical life at rated load in AC | C1 cycles | 100 · 10 ³ | 100 · 10³ | | |
| Maximum impulse duration | | continuous | continuous | | |
| Dielectric strength between: c | pen contacts V AC | 1000 | 1000 | | |
| sup | ply - contacts V AC | _ | _ | | |
| Ambient temperature range | °C | -10+60 | -10+50 | | |
| Protection category | | IP 20 | IP 20 | | |
| Approvals (according to type) | | C € [H[| CE ERE 👁 🕲 | | |



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

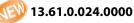
13.01/61 Screw terminals



13.01

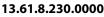


- 1 CO (SPDT)
- Step or monostable relay
- 35 mm rail (EN 60715) mount
- 35 mm wide





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





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

| For | out | line | dra | awıng | j se | ee | pag | ge | 10 |
|-----|-----|------|-----|-------|------|----|-----|----|----|
| | | | | | | | | | |

| Contact specification | | | | | | |
|--|--|-------------|----------------------|----------------------|--------------------|--|
| Contact configuration | | 1 CO (SPDT) | | 1 CO | 1 NO | |
| Rated current/Maximum pea | 16/30 (12 | 0 A - 5 ms) | 16/30 (120 A - 5 ms) | 16/30 (120 A - 5 ms) | | |
| Rated voltage/ | | | | | | |
| Maximum switching voltage | | 250/400 | | 250/400 | 250/400 | |
| Rated load AC1 | VA | 40 | 000 | 4000 | 4000 | |
| Rated load AC15 (230 V AC) | VA | 7. | 50 | 750 | 750 | |
| Nominal lamp rating: | | | | | | |
| | ndescent/halogen W | 20 | 000 | 2000 | 3000 | |
| fluo | rescent tubes with electronic ballast W | 10 | 000 | 1000 | 1500 | |
| | rescent tubes with | | | | | |
| electro | mechanical ballast W | | 50 | 750 | 1000 | |
| | CFL W | 4 | 00 | 400 | 600 | |
| | 230 V LED W | 4 | 00 | 400 | 600 | |
| LV ha | alogen or LED with electronic ballast W | 400 | | 400 | 600 | |
| | alogen or LED with mechanical ballast W | 8 | 00 | 800 | 1500 | |
| Minimum switching load mW (V/mA) | | 1000 (| 10/10) | 1000 (10/10) | 1000 (10/10) | |
| Standard contact material | | AgSnO₂ | | AgSnO₂ | AgSnO ₂ | |
| Supply specification | | | | | | |
| Nominal voltage (U _N) | V AC (50/60 Hz) | 110125 | 230240 | _ | 110240 | |
| _ | V DC/AC (50/60 Hz) | 12 | 24 | 1224 | _ | |
| 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) | 90130 | 184253 | _ | 90264 | |
| - | V DC/AC (50 Hz) | 10.813.2 | 20.633.6 | 10.226.4 | _ | |
| Technical data | | | | | | |
| Electrical life at rated load in AC1 cycles | | 100 · 10³ | | 100 · 10³ | 100 · 10³ | |
| Maximum impulse duration | | continuous | | continuous | continuous | |
| Dielectric strength between: open contacts V AC supply - contacts V AC | | 1000 | | 1000 | 1000 | |
| | | 4000 | | 2000 | 2000 | |
| Ambient temperature range | °C | -10+60 | | -10+60 | -10+60 | |
| Protection category | | IP | 20 | IP 20 | IP 20 | |
| Approvals (according to typ | | | CE ERE @ | | | |

- 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.

13.11



- 1 CO (SPDT)
- Call relay with reset command
- 35 mm rail (EN 60715) mount
- 17.5 mm wide

13.12



- 1 CO (SPDT) + 1 NO (SPST-NO)
- Call relay with reset command
- 35 mm rail (EN 60715) mount

2000

-10...+60

IP 20

• 17.5 mm wide





- 1 NO (SPST-NO)
- Interposing monostable relay
- For mounting within residential switch boxes

| 2 a g p a s c c y . | | | | |
|-------------------------------------|--|------------------------|------------------------------|------------------------|
| For outline drawing see page 10 | | | | |
| Contact specification | | | | |
| Contact configuration | | 1 CO (SPDT) | 1 CO (SPDT) + 1 NO (SPST-NO) | 1 NO (SPST-NO) |
| Rated current/Maximum peak of | urrent 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 incand | escent/halogen W | 1200 | 800 | 800 |
| | cent tubes with | | | |
| | lectronic ballast W | 500 | 300 | 400 |
| | cent tubes with chanical ballast W | 400 | 250 | 300 |
| | CFL W | 300 | 150 | 200 |
| | 230 V LED W | 300 | 150 | 200 |
| | gen or LED with lectronic ballast W | 300 | 150 | 200 |
| | gen or LED with chanical 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) | 230240 | 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) | (0.81.1)U _N | (0.81.1)U _N | (0.81.1)U _N |
| | DC | _ | (0.81.1)U _N | (0.81.1)U _N |
| Technical data | | | | |
| Electrical life at rated load in AC | 1 cycles | 100 · 10³ | 100 · 10 ³ | 70 · 10³ |
| Maximum impulse duration | | 10 s (100 ms minimum) | 10 s (100 ms minimum) | continuous |
| Dielectric strength between: o | pen contacts V AC | 1000 | 1000 | 1000 |
| | - | | | |

2000

-10...+60

IP 20

C€ FRE Œ

Ambient temperature range

Approvals (according to type)

Protection category

supply - contacts V AC

2000

-10...+60

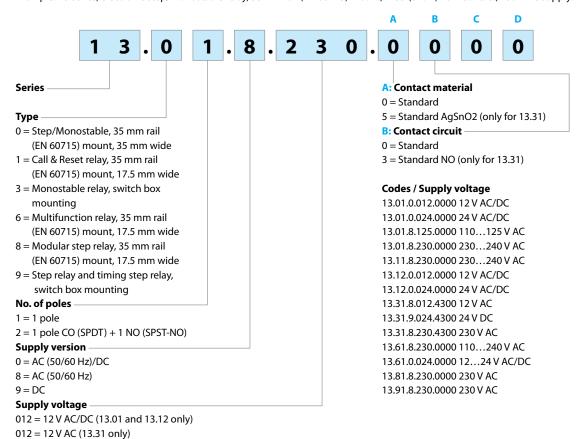
IP 20

C€ FRE



Ordering information

Example: 13 series, electronic step/monostable relay, 35 mm rail (EN 60715) mount, 1 CO (SPDT) 16 A contact, 230 V AC supply.



Technical data

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)

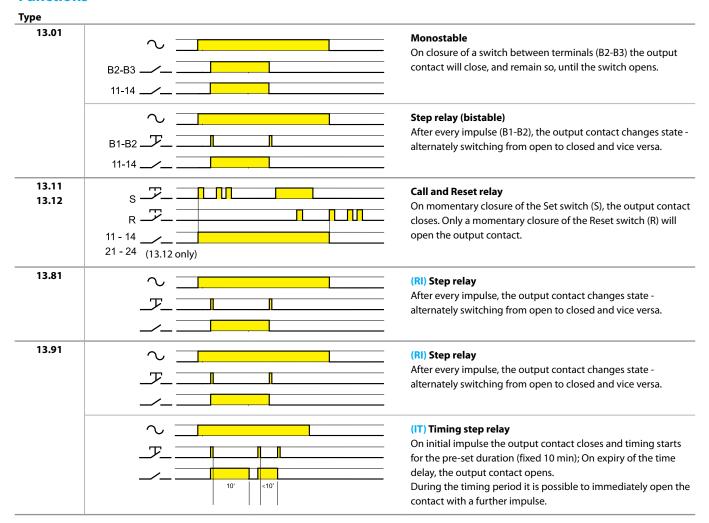
024 = 24 V AC/DC (13.01 and 13.12 only)

| Insulation | | 13.01.8 | 13.01.0 | 13.11 - 13.12 | 13.31 - 13.6 | 61 | 13.81 - 13. | 91 |
|--|----------------------------------|-----------------|-----------------|-----------------|---------------------------------|-----------|-----------------|-------|
| Dielectric strength | | | | | | | | |
| between control circuit and supply VAC | | 4000 | _ | _ | _ | | _ | |
| between control circuit and contacts VAC | | 4000 | 4000 | _ | _ | | _ | |
| between R-S-A2 and contacts V AC | | _ | _ | 2000 | _ | | _ | |
| between supply and contacts | between supply and contacts V AC | | 4000 | _ | 2000 — | | | |
| between open contacts | V AC | 1000 | 1000 | 1000 | 1000 | | 1000 | |
| Other data | | 13 | .01 | 13.11 - 13.12 | 13.31 | 13.61 | 13.81 | 13.91 |
| Power lost to the environment | | | | | | | | |
| without contact current | W | 2 | .2 | _ | 0.4 | 1 | 1.2 | 0.7 |
| with rated current | W | 3 | .5 | 1,5 | 1.6 | 1.8 | 2 | 1.8 |
| Max cable lenght for push-button connect | ion m | 10 | 00 | 100 | _ | 200 | 200 | 100 |
| Max. no. of illuminated push-button | (≤1mA) | _ | | | _ | 10* | 15 | 12 |
| Terminals | Terminals | | 13.01 | | 13.11 - 13.12 - 13.31 - 13.61 - | | · 13.81 - 13.91 | |
| Max. wire size | | solid cable | stranded cable | solid cable | | strande | d cable | |
| | mm ² | 1x6/2x4 | 1 x 6 / 2 x 2.5 | 1x6/2x4 | | 1 x 4 / 2 | x 2.5 | |
| | 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 | |
| Screw torque Nm | | 0.8 | | 0.8 | | | | |

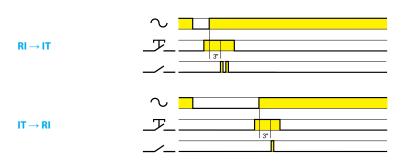
^{*} For 8.230 version.



Functions



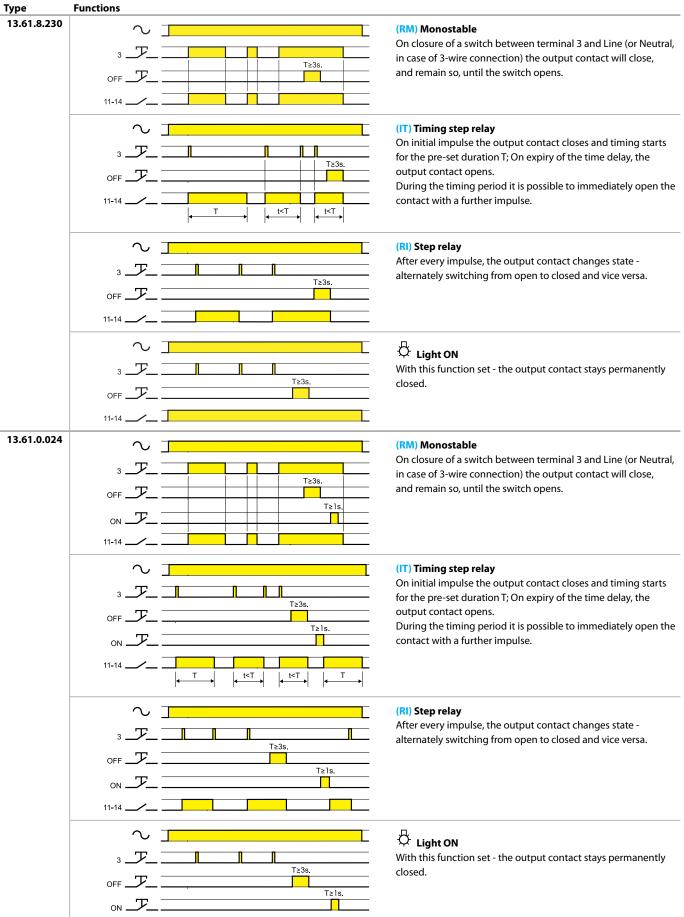
Operating mode setup for type 13.91



- a) Remove the supply voltage
- b) Press the control button
- c) 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

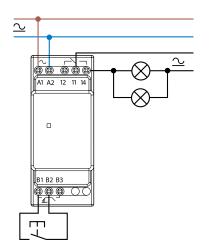


Wiring diagrams (13.01, 13.11, 13.12 and 13.31)

Type 13.01

Step wiring diagram

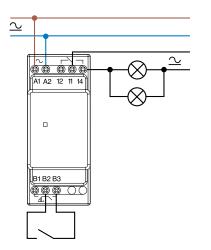
Red LED indication: Continuous = relay ON



Type 13.01

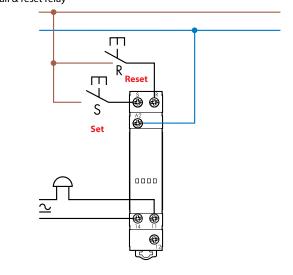
Monostable wiring diagram

Red LED indication: Continuous = relay ON



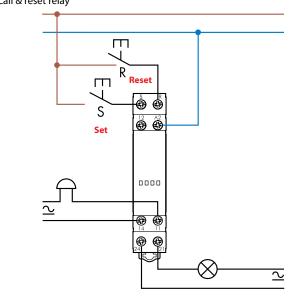
Type 13.11

Call & reset relay



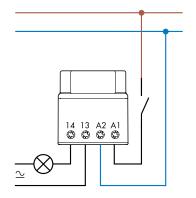
Type 13.12

Call & reset relay



Type 13.31

Connection



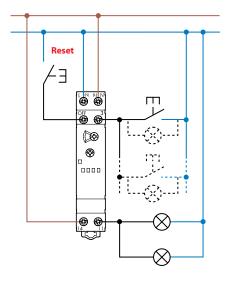


Wiring diagrams (13.61)



Continuous = relay ON

Blinking = relay OFF



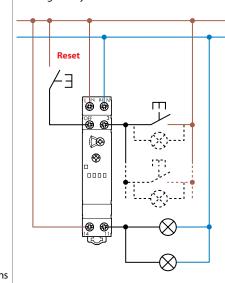
Max 10 (≤ 1 mA) illuminated push buttons

Type 13.61.8.230

4 wire connection Red LED indication:

Continuous = relay ON

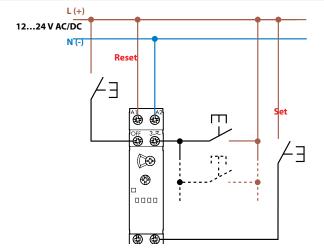
Blinking = relay OFF



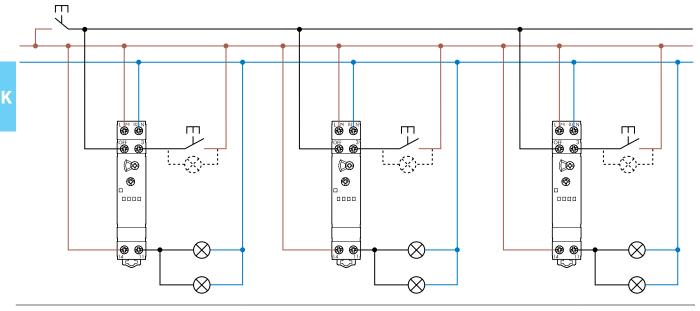
Max 10 (≤ 1 mA) illuminated push buttons

Type 13.61.0.024

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



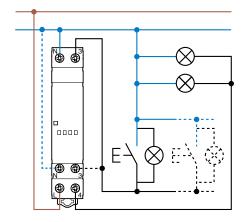
Type 13.61.8.230 - Examples of multiple 4 wire connection with centralized reset pushbutton



Wiring diagrams (13.81 and 13.91)

Type 13.81

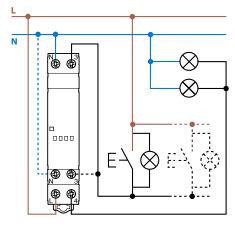
3 wire connection Red LED indication: Continuous = relay ON Blinking = relay OFF



Max 15 (≤ 1 mA) illuminated push buttons

Type 13.81

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

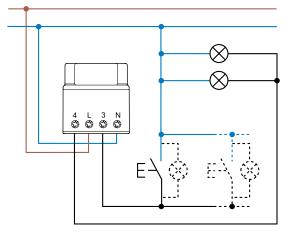


finder

Max 15 (≤ 1 mA) illuminated push buttons

Type 13.91

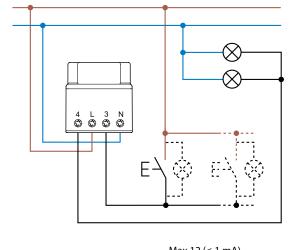
3 wire connection



Max 12 (≤ 1 mA) illuminated push buttons

Type 13.91

4 wire connection



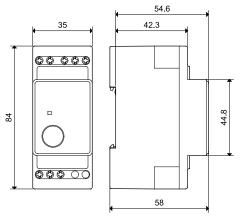
Max 12 (≤ 1 mA) illuminated push buttons



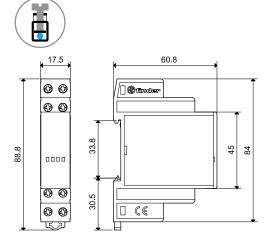
Outline drawings

13.01 Screw terminal

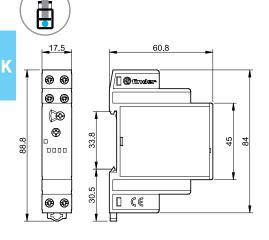




13.12 Screw terminal

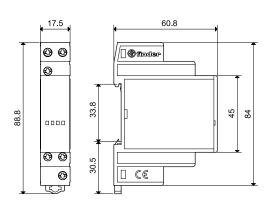


13.61 Screw terminal



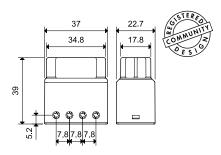
13.11 Screw terminal



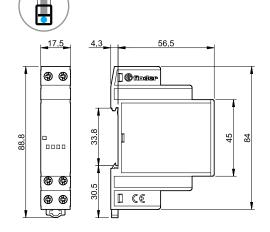


13.31/13.91 Screw terminal





13.81 Screw terminal





Accessories





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



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

Sheet of marker tags for type, 13.11, 13.12, 13.61 and 13.81, plastic, 72 tags, 6 x 12 mm

020.01

019.01



060.72

020.01