

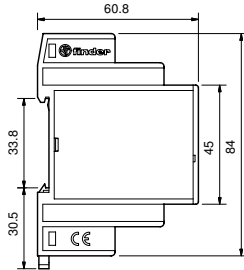
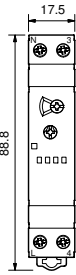
## Features

### Range of electronic staircase timers

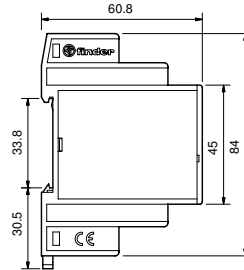
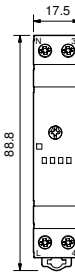
- 17.5 mm wide
- Time setting from 30 s to 20 min
- "Zero crossing" load switching
- "Switch-off early warning" - model 14.01
- Type 14.81: wiring compatible with mechanical versions
- Suitable for 3 or 4 wire systems, with automatic recognition
- LED status indicators
- Cadmium free contact material
- Can be used with illuminated push - buttons
- "Blade + cross" - both flat blade and cross head screw drivers can be used to adjust the function selector, the timing trimmer, and to disengage the 35mm rail mounting clip

**14.01**

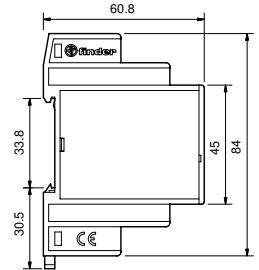
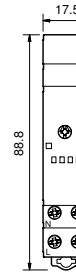

- Multi-function
- 1 NO (SPST-NO)
- 35 mm rail (EN 50022) mount


**14.71**


- Mono-function
- 1 NO (SPST-NO)
- 35 mm rail (EN 50022) mount


**14.81**


- Mono-function
- 1 NO (SPST-NO)
- 35 mm rail (EN 50022) mount
- All terminals on same side



### Contact specification

| Contact configuration                        | 1 NO (SPST-NO)       | 1 NO (SPST-NO)       | 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 | 230/—                | 230/—                | 230/—                |
| Rated load AC1 VA                            | 3,700                | 3,700                | 3,700                |
| Rated load AC15 (230 V AC) VA                | 750                  | 750                  | 750                  |
| Nominal lamp rating: incandescent (230 V) W  | 3,000                | 3,000                | 3,000                |
| compensated fluorescent (230 V) W            | 1,000                | 1,000                | 1,000                |
| uncompensated fluorescent (230 V) W          | 1,000                | 1,000                | 1,000                |
| halogen (230 V) W                            | 3,000                | 3,000                | 3,000                |
| Minimum switching load mW (V/mA)             | 1,000 (10/10)        | 1,000 (10/10)        | 1,000 (10/10)        |
| Standard contact material                    | AgSnO <sub>2</sub>   | AgSnO <sub>2</sub>   | AgSnO <sub>2</sub>   |

### Supply specification

|                                   |                 |                           |                           |                           |
|-----------------------------------|-----------------|---------------------------|---------------------------|---------------------------|
| Nominal voltage (U <sub>N</sub> ) | V AC (50/60 Hz) | 230                       | 230                       | 230                       |
|                                   | V DC            | —                         | —                         | —                         |
| Rated power AC/DC                 | VA (50 Hz)/W    | 3/1.2                     | 3/1.2                     | 3/1.2                     |
| Operating range                   | AC (50 Hz)      | (0.8...1.1)U <sub>N</sub> | (0.8...1.1)U <sub>N</sub> | (0.8...1.1)U <sub>N</sub> |
|                                   | DC              | —                         | —                         | —                         |

### Technical data

|   |        |                       |                       |                       |
|---|--------|-----------------------|-----------------------|-----------------------|
| Electrical life at rated load in AC1        | cycles | 100 · 10 <sup>3</sup> | 100 · 10 <sup>3</sup> | 100 · 10 <sup>3</sup> |
| Delay setting                               | min    | 0.5...20              | 0.5...20              | 0.5...20              |
| Max no. of illuminated push-button (≤ 1 mA) |        | 30                    | 30                    | 15                    |
| Maximum impulse duration                    |        | continuous            | continuous            | continuous            |
| Ambient temperature range                   | °C     | -10...+60             | -10...+60             | -10...+60             |
| Protection category                         |        | IP 20                 | IP 20                 | IP 20                 |

### Approvals (according to type)



## Ordering information

Example: 14 series multi-function relay, single phase switch 1 NO (SPDT-NO) 16 A contact, supply rated at 230 V AC.

**1 4 . 0 1 . 8 . 2 3 0 . 0 0 0 0**

**Series** \_\_\_\_\_

**Type** \_\_\_\_\_

0 = 35 mm rail (EN 50022) mount, multi-function

7 = 35 mm rail (EN 50022) mount, mono-function

8 = 35 mm rail (EN 50022) mount mono-function, all terminals on same side

**No. of poles** \_\_\_\_\_

1 = Single phase switch, 16 A

**Supply voltage**

230 = 230 V

**Supply version**

8 = AC (50/60 Hz)

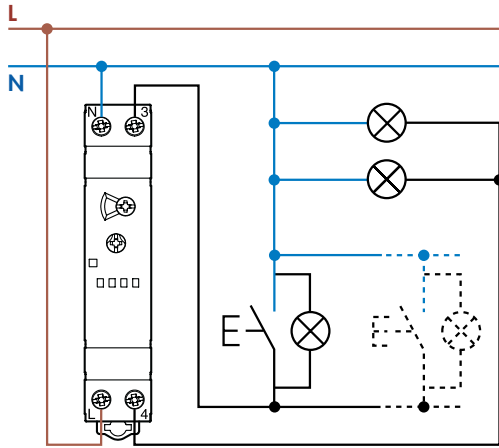
## Technical data

| Insulation                                  |                         |             |                |
|---|-------------------------|-------------|----------------|
| Dielectric strength between open contacts   | V AC                    | 1,000       |                |
| Other data                                  |                         |             |                |
| Power lost to the environment               | without contact current | W           | 1.2            |
|   | with rated current      | W           | 2              |
| Max cable length for push-button connection | m                       | 200         |                |
| Screw torque                                | Nm                      | 0.8         |                |
| Max. wire size                              |                         | solid cable | stranded cable |
|   | mm <sup>2</sup>         | 1x6 / 2x4   | 1x4 / 2x2.5    |
|   | AWG                     | 1x10 / 2x12 | 1x12 / 2x14    |

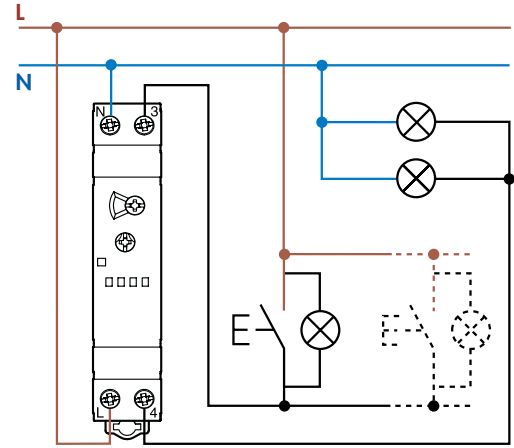
**Wiring diagrams**

**Type 14.01  
14.71**

Red LED indication:  
Continuous = relay ON  
Blinking = relay OFF



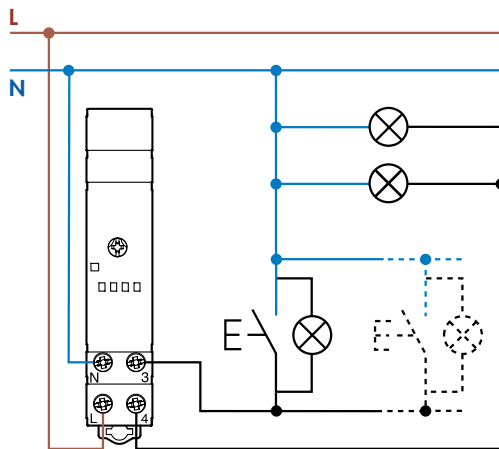
3 wire connection



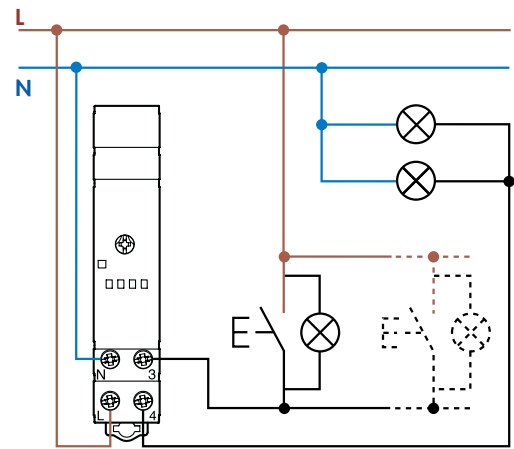
4 wire connection

**Type 14.81**

Red LED indication:  
Continuous = relay ON  
Blinking = relay OFF



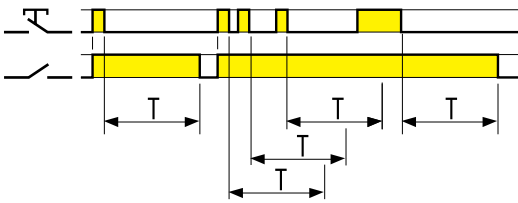
3 wire connection



4 wire connection

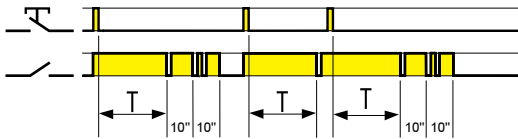
## Functions

### Type 14.01 Functions selectable with front rotary selector



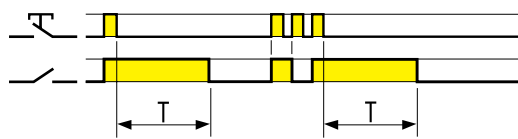
#### (BE) Staircase relay

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.



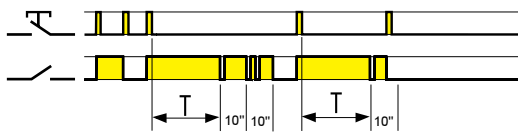
#### (BP) Staircase relay with early warning

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; 10secs later the contact blinks off twice, and after a further 10secs 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.



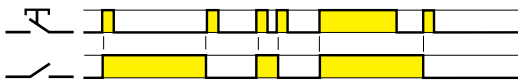
#### (IT) Timing step relay

On initial impulse the output contact closes and timing starts for the pre-set duration; 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.



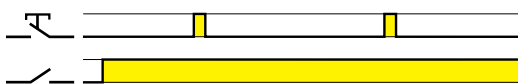
#### (IP) Timing step relay with early warning

On initial impulse the output contact closes and timing starts for the pre-set duration; After the timing period, the output contact blinks off once; 10 secs later the contact blinks off twice, and after a further 10 secs the contact opens. During the pre-set and 20 second warning time, it is possible to immediately open the output contact by a further impulse.



#### (RI) Step relay

After every impulse, the output contact changes state - alternately switching from open to closed and vice versa.

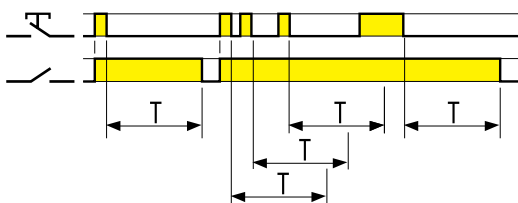


#### (ON) Light ON

With this function set - the output contact stays permanently closed.

NOTE: The blinking within the Early Warning functions (BP and IP) could cause re-start problems for fluorescent lamps with electromagnetic chokes (both conventional and compact types); We consequently suggest not to use such lamps with these functions.

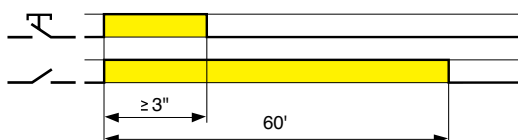
### Type 14.71 and 14.81



#### Staircase relay

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.

### Type 14.01, 14.71 and 14.81 - "Staircase maintenance" function



#### "Staircase maintenance" function

An impulse of > 3 seconds will close the output contact for 60 minutes, after which time the contact will open. Ideal for maintenance or cleaning activities.