

## **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
  Suitable for 3 or 4 wire systems, with automatic recognition (14.01 and 14.71) or via "pushbutton configuration" (14.81)
  LED status indicators (14.01 and 14.71)
  Cadmium free contact material
  Can be used with illuminated push a buttons

- 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 35 mm rail mounting clip

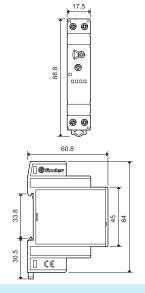


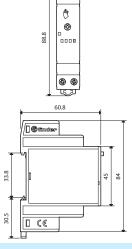
- Multi-function
- 1 NO (SPST-NO)



- Mono-function
- 1 NO (SPST-NO)
- 35 mm rail (EN 60715) mount 35 mm rail (EN 60715) mount

**(4) (4)** 





Contact specification				
Contact configuration		1 NO (SPST-NO)	1 NO (SPST-NO)	
Rated current/Maximum pe	eak current A	16/30 (120 A - 5 ms)	16/30 (120 A - 5 ms)	
Rated voltage/Maximum sw	itching voltage V AC	230/—	230/—	
Rated load AC1 VA		3,700	3,700	
Rated load AC15 (230 V A	AC) VA	750	750	
Nominal lamp rating:incan	descent (230 V) W	3,000	3,000	
compensated fluo	rescent (230 V) W	1,000	1,000	
uncompensated fluorescent (230 V) W		1,000	1,000	
h	alogen (230 V) W	3,000	3,000	
Minimum switching load	mW (V/mA)	1,000 (10/10)	1,000 (10/10)	
Standard contact material		AgSnO <sub>2</sub>	AgSnO <sub>2</sub>	
Supply specification				
Nominal voltage $(U_N)$	V AC (50/60 Hz)	230	230	
	V DC	_	_	
Rated power	VA (50 Hz)/W	3/1.2	3/1.2	
Operating range	AC (50 Hz)	(0.81.1)U <sub>N</sub>	(0.81.1)U <sub>N</sub>	
	DC	_	_	
Technical data				
Electrical life at rated load in AC1 cycles		100 · 10³	100 · 10³	
Delay setting min		0.520	0.520	
Max no. of illuminated push-button (≤ 1 mA)		30	30	
Maximum impulse duration		continuous	continuous	
Ambient temperature range °C		-10+60	-10+60	
Protection category		IP 20	IP 20	
Approvals (according to type)		(€ ₾	(1) (1) (2) (3) (4) (4) (4) (4)	



## **Features**

### Range of electronic staircase timers

- 17.5 mm wide
- Time setting from 30 s to 20 min
- "Zero crossing" load switching
  Types 14.81 and 14.91: wiring compatible with mechanical versions and with old type (low emission) illuminated pushbuttons
- Suitable for 3 or 4 wire systems, with automatic recognition (14.01 and 14.71) or via "pushbutton configuration" (14.81)
  • 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 35 mm rail mounting clip



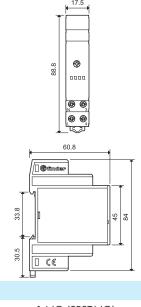


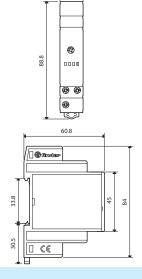
- Mono-function
- 1 NO (SPST-NO)
- 35 mm rail (EN 60715) mount
- All terminals on same side





- Mono-function
- 1 NO (SPST-NO)
- 35 mm rail (EN 60715) mount
- 3 terminals, on same side



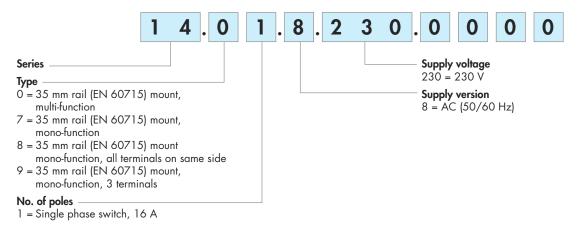


		30.5	308	
Contact specification				
Contact configuration		1 NO (SPST-NO)	1 NO (SPST-NO)	
Rated current/Maximum peak current A		16/30 (120 A - 5 ms)	16/30 (120 A - 5 ms)	
Rated voltage/Maximum sw	vitching voltage V AC	230/—	230/—	
Rated load AC1	VA	3,700	3,700	
Rated load AC15 (230 V	AC) VA	750 750		
Nominal lamp rating:incandescent (230 V) W		3,000	3,000	
compensated fluorescent (230 V) W		1,000	1,000	
uncompensated fluorescent (230 V) W		1,000	1,000	
h	nalogen (230 V) W	3,000	3,000	
Minimum switching load	mW (V/mA)	1,000 (10/10)	1,000 (10/10)	
Standard contact material		AgSnO <sub>2</sub>	AgSnO <sub>2</sub>	
Supply specification				
Nominal voltage $(U_N)$	V AC (50/60 Hz)	230	230	
	V DC	_	_	
Rated power	VA (50 Hz)/W	3/1.2	3/1.2	
Operating range	AC (50 Hz)	(0.81.1)U <sub>N</sub>	(0.81.1)U <sub>N</sub>	
	DC	_	_	
Technical data				
Electrical life at rated load in AC1 cycles		100 · 10³	100 · 10³	
Delay setting min		0.520	0.520	
Max no. of illuminated push-button (≤ 1 mA)		25	25	
Maximum impulse duration		continuous	continuous	
Ambient temperature range °C		-10+60	-10+60	
Protection category		IP 20	IP 20	
Approvals (according to type)			C€	



## **Ordering information**

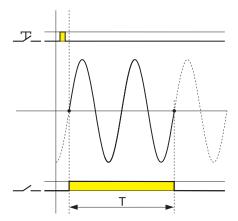
Example: 14 series multi-function relay, single phase switch 1 NO (SPDT-NO) 16 A contact, supply rated at 230 V AC.



## 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		
Maximum cable length for push-button connection m		200			
Screw torque		Nm	0.8		
Max. wire size			solid cable	stranded cable	
		${\sf mm}^2$	1x6 / 2x4	1x4 / 2x2.5	
		AWG	1x10 / 2x12	1x12 / 2x14	

# Zero crossing switching



- 1. Lower inrush current protects and increases lamp life
- 2. Lower inrush current reduces the possibility of contact welding
- 3. The current at switch-off is also lower, reducing stress and wear on the contacts

#### Note

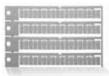
Using the type 14.91, the lamps are switch on direct by the pushbuttom

### **Accessories**



Adaptor for panel mounting, 17.5 mm wide

020.01



Sheet of marker tags, plastic, 72 tags, 6x12 mm

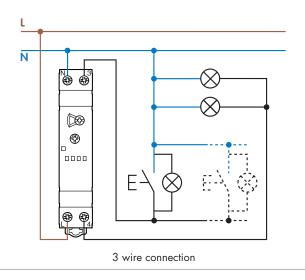
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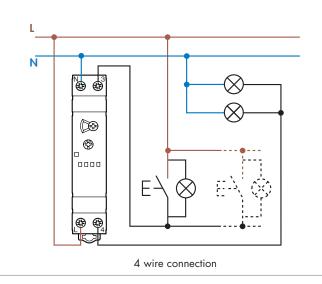


# Wiring diagrams

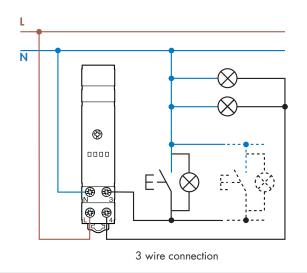
Type 14.01 14.71 Red LED indication:

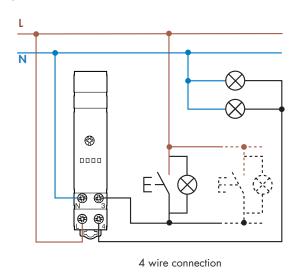
Red LED indication: Continuous = relay ON Blinking = relay OFF



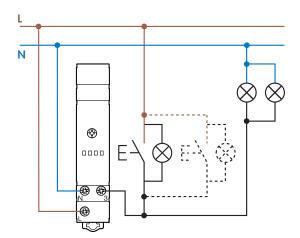


Type 14.81 (pushbutton configuration required as per the Installation manual)





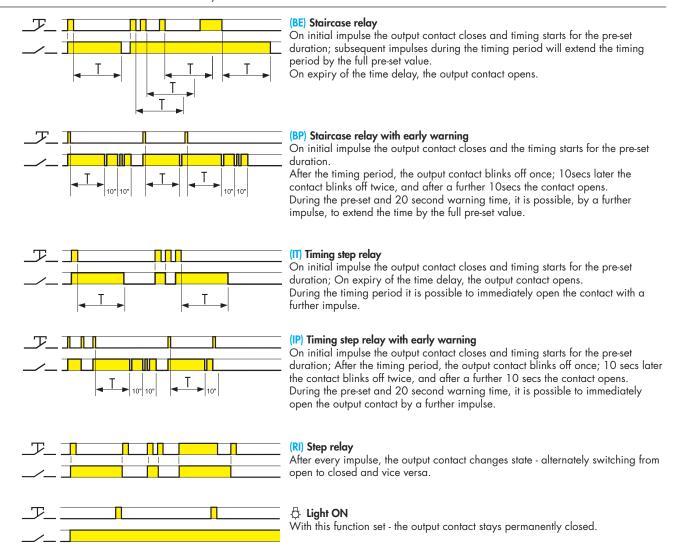
Type 14.91 (the push-buttons must be rated for the load current)





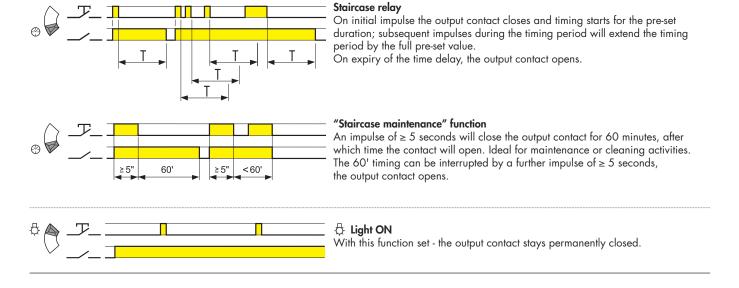
### **Functions**

Type 14.01 Functions selectable with front rotary selector



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.

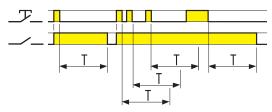
Type 14.71 Functions selectable with front selector





## **Functions**

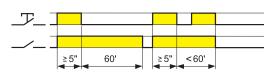
### Type 14.81



#### 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.

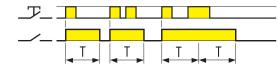
On expiry of the time delay, the output contact opens.



### "Staircase maintenance" function

An impulse of  $\geq 5$  seconds will close the output contact for 60 minutes, after which time the contact will open. Ideal for maintenance or cleaning activities. The 60' timing can be interrupted by a further impulse of  $\geq 5$  seconds, which will re-establish the staircase timer function; so on expiry of the staircase time delay, the output contact opens.

## Type 14.91



## Signal ON pulse

On initial impulse the output contact closes, and remain so for the duration of the preset delay. On expiry of the time delay, the output contact opens.