

Features

Range of electronic staircase timers

- 17.5 mm wide
- Time setting from 30 seconds to 20 minutes
- "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

 • European Patent



• Multi-function

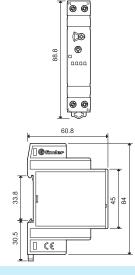
• 1 NO (SPST-NO) • 35 mm rail (EN 60715) mount • 35 mm rail (EN 60715) mount

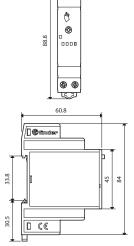


Mono-function

• 1 NO (SPST-NO)

(4) (4)





Contact specification				
Contact configuration		1 NO (SPST-NO)	1 NO (SPST-NO)	
Rated current/Maximum p	eak current A	16/30 (120 A - 5 ms)	16/30 (120 A - 5 ms)	
Rated voltage/Maximum sv	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 fluc	prescent (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		$AgSnO_2$	AgSnO ₂	
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 _N	(0.81.1)U _N	
	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	1	continuous	continuous	
Ambient temperature range °C		-10+60	-10+60	
Protection category		IP 20	IP 20	
Approvals (according to type)		(E @ (



Features

Range of electronic staircase timers

- 17.5 mm wide
- Time setting from 30 seconds to 20 minutes
- "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



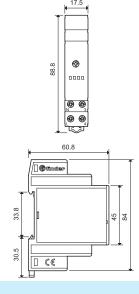


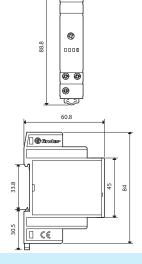
- Mono-function
- 1 NO (SPST-NO)
- 35 mm rail (EN 60715) mount
- All terminals on same side

14.91



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



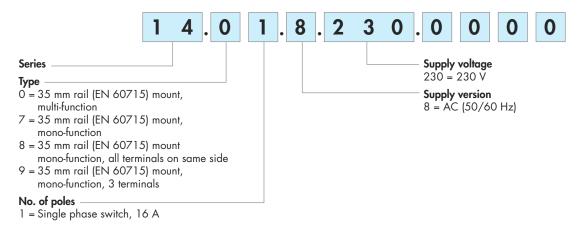


		80.5	
Contact specification			
Contact configuration		1 NO (SPST-NO)	1 NO (SPST-NO)
Rated current/Maximum peak current A		16/30 (120 A - 5 ms)	16/30 (120 A - 5 ms)
Rated voltage/Maximum switching voltage V AC		230/—	230/—
Rated load AC1 VA		3,700	3,700
Rated load AC15 (230 V AC) VA		750	750
Nominal lamp 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
halogen (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 ₂	$AgSnO_2$
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 _N	(0.81.1)U _N
	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)			CE



Ordering information

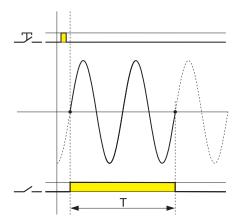
Example: 14 series multi-function relay, single phase switch 1 NO (SPDT-NO) 16 A contact, supply rated at 230 V AC.



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
		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 switched on directly by the pushbutton

Accessories



Adaptor for panel mounting, 17.5 mm wide

020.01



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

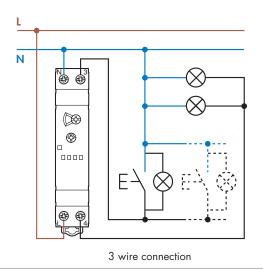
060.72

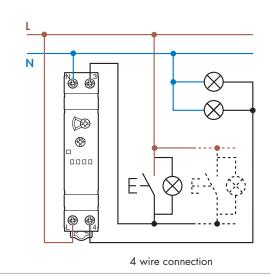


Wiring diagrams

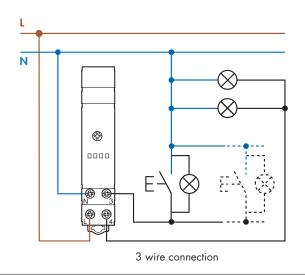
Type 14.01 14.71 Red LED indication:

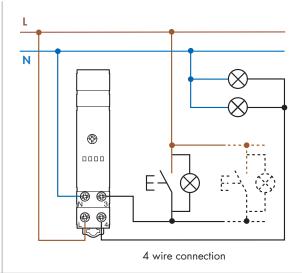
Red LED indication: Continuous = relay ON Blinking = relay OFF



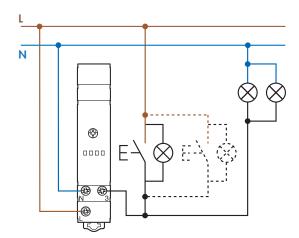


Type 14.81 (pushbutton configuration procedure, as per the Installation manual)





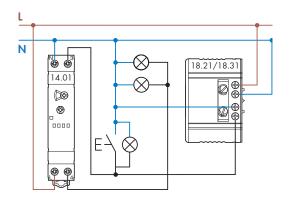
Type 14.91 (the push-buttons must be rated for the load current)

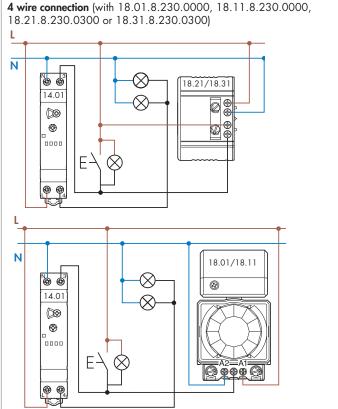




Wiring diagrams - 14.01 triggered by PIR movement detector (18 series)

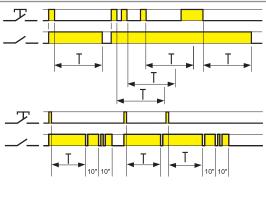
3 wire connection (with 18.21.8.230.0300 or 18.31.8.230.0300 only)





Functions

Type 14.01 Functions selectable with front rotary selector



(BE) Staircase relay

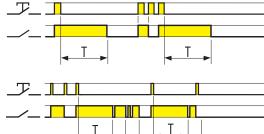
On initial impulse the output contact closes and timing starts for the pre-set duration; subsequent impulses during the timing period will extend the timing period by the full pre-set value.

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

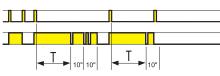
After the timing period, the output contact blinks off once; 10secs later the contact blinks off twice, and after a further 10secs the contact opens. During the pre-set and 20 second warning time, it is possible, by a further impulse, to extend the time by the full pre-set value.



(IT) Timing step relay

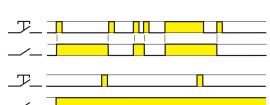
On initial impulse the output contact closes and timing starts for the pre-set duration; On expiry of the time delay, the output contact opens. During the timing period it is possible to immediately open the contact with a

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.

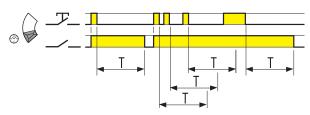
🖟 Light ON

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



Functions

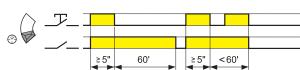
Type 14.71 Functions selectable with front selector



Staircase relay

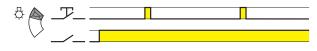
On initial impulse the output contact closes and timing starts for the pre-set duration; subsequent impulses during the timing period will extend the timing period by the full pre-set value.

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



"Staircase maintenance" function

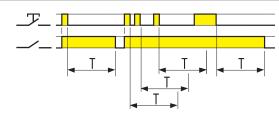
An impulse of ≥ 5 seconds will close the output contact for 60 minutes, after which time the contact will open. Ideal for maintenance or cleaning activities. The 60' timing can be interrupted by a further impulse of ≥ 5 seconds, the output contact opens.



Light ON

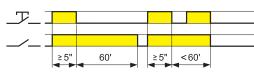
With this function set - the output contact stays permanently closed.

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.

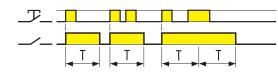
On expiry of the time delay, the output contact opens.



"Staircase maintenance" function

An impulse of ≥ 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 ≥ 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.