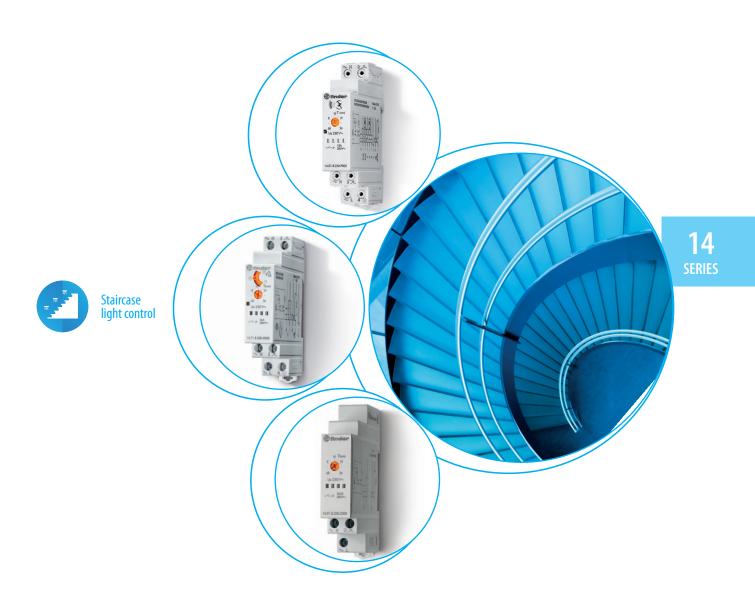


Electronic staircase timers 16 A





Multi-function electronic staircase timers 1 NO 16 A 17.5 mm wide

Type 14.01

- 8 functions
- Switch-off "early warning" options

Type 14.71

- 3 functions
- Time setting from 30 seconds to 20 minutes
- "Zero crossing" load switching
- Suitable for 3 or 4 wire systems, with automatic recognition
- Compatible with movement detectors (18 series)
- 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 35 mm rail mounting clip
- 35 mm rail (EN 60715) mount
- European Patent

14.01/71 Screw terminal



14.01



- 8 functions:
- Staircase timer
- Staircase timer + maintenance function
- Staircase timer with early warning
- Staircase timer with early warning + maintenancefunction
- Timing step relay
- Timing step relay with early warning
- Step relay
- Light ON

14.71



- 3 functions:
- Staircase timer
- Staircase timer + maintenance function
- Light ON

1 NO (SPST-NO)	1 NO (SPST-NO)	
16/30 (120 A - 5 ms)	16/30 (120 A - 5 ms)	
230/—	230/—	
3700	3700	
750	750	
3000	3000	
1500	1500	
1000	1000	
	1000	
	600	
600	600	
600	600	
000	800	
1500	1500	
	1000 (10/10)	
AgSnO ₂	AgSnO ₂	
	<u> </u>	
230	230	
_	_	
3/1.2	3/1.2	
	(0.81.1)U _N	
_	_	
100 · 10 ³	100 · 10³	
0.520	0.520	
30	30	
continuous	continuous	
-10+60	-10+60	
IP 20	IP 20	
C € ERI @ @		
	16/30 (120 A - 5 ms) 230/— A 3700 A 750 3000 1500 1000 0 600 0 600 0 600 0 1500 1000 (10/10) AgSnO ₂ 0 230 0 3/1.2 0 (0.81.1)U _N 1 100·10 ³ 0 0.520 30 continuous -10+60 IP 20	

14 SERIES Electronic staircase timers 16 A

Mono-function electronic staircase timers 1 NO 16 A 17.5 mm wide

Type 14.81

- Staircase timer + maintenance function

Type 14.91

- Signal ON pulse timer
- Time setting from 30 seconds to 20 minutes
- "Zero crossing" load switching
- Wiring compatible with mechanical versions and with old type (low emission) illuminated pushbuttons
- Suitable for 3 or 4 wire systems, via "pushbutton configuration"
- 110...125 V AC supply version available (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
- 35 mm rail (EN 60715) mount

14.81/91 Screw terminal



14.81



- Mono-function:
- Staircase timer + maintenance function
- All 4 terminal on same side

14.91



- Mono-function:
- Signal ON pulse timer
- All 3 terminal on same side

For outline drawing see page 10

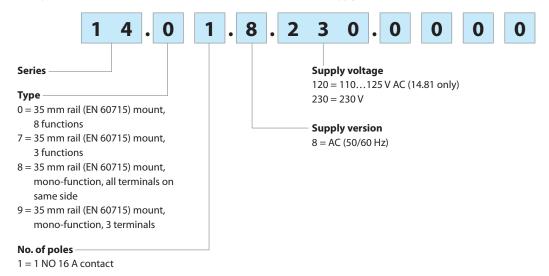
Contact specification

Contact configuration		1 NO (SPST-NO)	1 NO (SPST-NO)
Rated current/Maximum peak of	current A	16/30 (120 A - 5 ms)	16/30 (120 A - 5 ms)
Rated voltage/			
laximum switching voltage V AC		230/—	230/—
Rated load AC1 VA		3700	3700
Rated load AC15 (230 V AC)	ted load AC15 (230 V AC) VA		750
Nominal lamp rating:			
230 V incand	escent/halogen W	3000	3000
	cent tubes with		
	lectronic ballast W	1500	1500
fluorescent tubes with electromagnetic ballast W		1000	1000
		1000	1000
CFL W		600	600
230 V LED W		600	600
LV halogen or LED with electronic ballast W		600	600
	ogen or LED with	000	000
electromagnetic ballast W		1500	1500
Minimum switching load	mW (V/mA)	1000 (10/10)	1000 (10/10)
Standard contact material		AgSnO ₂	AgSnO₂
Supply specification			
Nominal voltage (U _N)	V AC (50/60 Hz)	110125/230	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 EHI @ @	C€ ERE



Ordering information

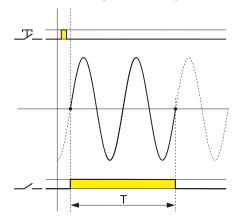
Example: 14 series multi-function timer, 1 NO (SPDT-NO) 16 A contact, supply rated at 230 V AC.



Technical data

Insulation				
Dielectric strength between	een open contacts	V AC	1000	
Other data				
Power lost to the environ	nment			
	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	1 x 4 / 2 x 2.5
		AWG	1 x 10 / 2 x 12	1 x 12 / 2 x 14

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 push-button

Accessories



020.01

060.48

Sheet of marker tags (CEMBRE Thermal transfer printers), plastic, 48 tags, 6 x 12 mm

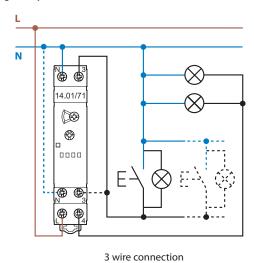
060.48

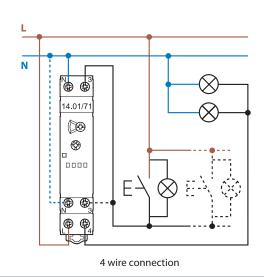
X-2017, www.findernet.com



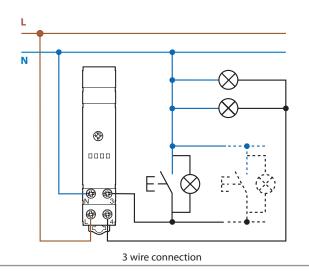
Wiring diagrams

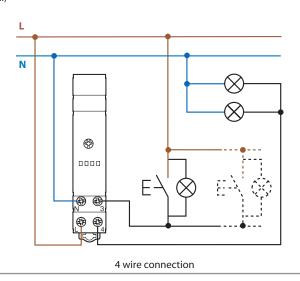
Type 14.01 14.71 Red LED indication: Continuous = relay ON Blinking = relay OFF



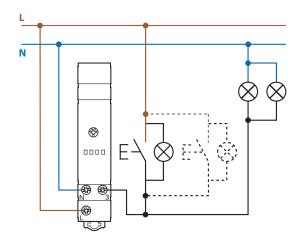


Type 14.81 (push-button configuration procedure, as per the Installation manual)



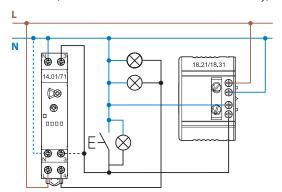


Type 14.91 (the push-buttons must be rated for the load current)

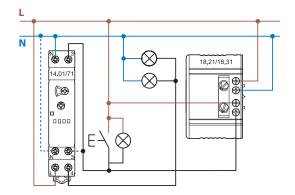


Wiring diagrams - 14.01 or 14.71 without Staircase maintenance function, triggered by PIR movement detector (18 series).

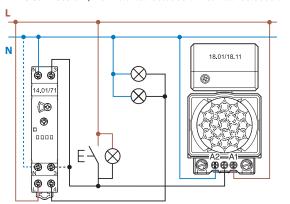
3 wire connection (with 18.21.8.230.0300 or 18.31.8.230.0300 only)



4 wire connection (with 18.21.8.230.0300 or 18.31.8.230.0300 only)



4 wire connection (with 18.01.8.230.0000 or 18.11.8.230.0000 only)

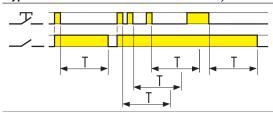


14 SERIES Electronic staircase timers 16 A



Functions

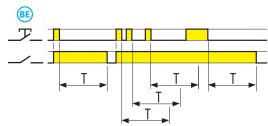
Type 14.01 Functions selectable with front rotary selector

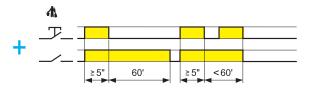


(BE) Staircase timer

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.

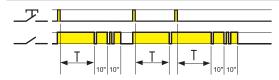
On expiry of the time delay, the output contact opens.





(ME) Staircase timer + Staircase maintenance

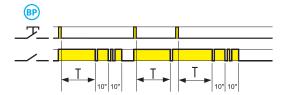
In addition to the Staircase timer function (BE), an impulse of ≥ 5 seconds will close the output contact for 60 minutes, after which time the contact will open. Ideal for maintenance or cleaning activities. The 60 minute timing can be interrupted by a further impulse of \geq 5 seconds, and the output contact then opens

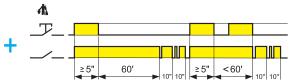


(BP) Staircase timer with early warning

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.

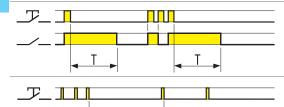
During the pre-set and 20 second warning time, it is possible, by a further impulse, to extend the time by the full pre-set value.





(MP) Staircase timer with early warning + Staircase maintenance

In addition to the Staircase timer function (BP), 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 minute timing can be interrupted by a further impulse of \geq 5 seconds, and the output contact then opens



(IT) Timing step relay

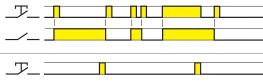
On initial impulse the output contact closes and timing starts for the pre-set duration; On expiry of the time delay, the output contact opens.

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

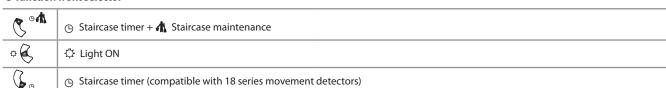
With this function set - the output contact stays permanently closed.

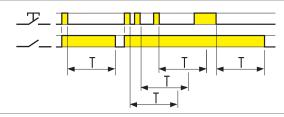
NOTE: The blinking within the Early Warning functions (BP and IP) could cause re-start problems for fluorescent lamps with electromagnetic chokes (both conventional and compact types); We consequently suggest not to use such lamps with these functions.

Functions

Type 14.71 Functions selectable with front selector

3-function front selector

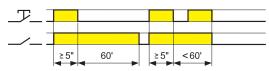




Staircase timer

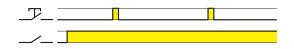
On initial impulse the output contact closes and timing starts for the pre-set duration; subsequent impulses during the timing period will extend the timing period by the full pre-set value.

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



★ Staircase maintenance

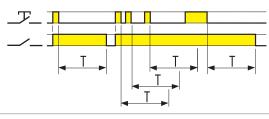
An impulse of \geq 5 seconds will close the output contact for 60 minutes, after which time the contact will open. Ideal for maintenance or cleaning activities. The 60' timing can be interrupted by a further impulse of \geq 5 seconds, the output contact opens.



Light ON

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

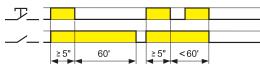
Type 14.81



Staircase timer

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.

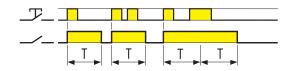
On expiry of the time delay, the output contact opens.



"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



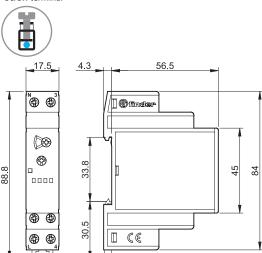
Signal ON pulse

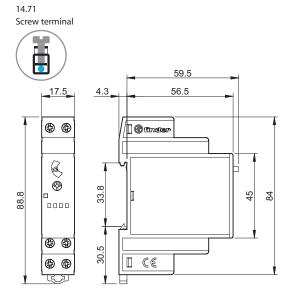
On initial impulse the output contact closes, and remain so for the duration of the preset delay. On expiry of the time delay, the output contact opens.



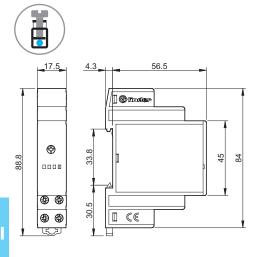
Outline drawings







14.81 Screw terminal



14.91 Screw terminal

