

Electronic staircase timers 16 A



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14 SERIES Electronic staircase timers16 A



Multi-function electronic staircase timers 1 NO 16 A 17.5 mm wide		14.01	14.71
Type 14.01		00	00
 8 functions Switch-off "early warning" options 		Stinder Mann Ma	Connector Man and
Type 14.71			
- 3 functions		CONTRACT OF CONTRACTOR	
• Time setting from 30 seconds to 20 m	inutes	140' 420-000	14.7 A DE 1000
 "Zero crossing" load switching Suitable for 3 or 4 wire systems, with a 	utomatic	6.8	0.0
recognition			1. Co
 Compatible with movement detectors LED status indicators 	(18 series)		
Cadmium free contact material		• 8 functions:	• 3 functions:
 Can be used with illuminated push - b "Blade + cross" - both flat blade and cr 		 Staircase timer Staircase timer + 	 Staircase timer Staircase timer +
head screw drivers can be used to adju		maintenance function	maintenance function
function selector, the timing trimmer,		- Staircase timer with early	- Light ON
 disengage the 35 mm rail mounting c 35 mm rail (EN 60715) mount 	np	warning	
• European Patent		 Staircase timer with early warning + maintenance 	
14.01/71		function	
Screw terminal		- Timing step relay	
		- Timing step relay with early	
		warning - Step relay	
		- Light ON	
For outline drawing see page 10			
Contact specification			
Contact configuration		1 NO (SPST-NO)	1 NO (SPST-NO)
Rated current/Maximum peak current	А	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	3700	3700
Rated load AC15 (230 V AC)	VA	750	750
Nominal lamp rating: 230 V incandescent/h	alogen W	3000	3000
fluorescent tub	-	0000	0000
electronic ballast W		1500	1500
fluorescent tub			
electromagnetic		1000	1000
	CFL W	600	600
LV halogen or LE		600	600
-	ballast W	600	600
LV halogen or LED with			
electromagneti		1500	1500
5	W (V/mA)	1000 (10/10)	1000 (10/10)
Standard contact material		AgSnO ₂	AgSnO ₂
Supply specification Nominal voltage (U _N) V AC ((50/60 Hz)	230	230
	50/60 HZ)		
Rated power VA	(50 Hz)/W	3/1.2	3/1.2
•	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 · 10 ³	100 · 10 ³
Delay setting min		0.520	0.520
	mA)	30	30
· · · · · · · · · · · · · · · · · · ·			
Max no. of illuminated push-button (≤ 1 Maximum impulse duration		continuous	continuous
· · · · · · · · · · · · · · · · · · ·	°C	continuous -10+60 IP 20	continuous -10+60 IP 20

14 SERIES



Mono-function electronic s	taircase timers	14.81	14.91
1 NO 16 A 17.5 mm wide		14:01	14.21
Туре 14.81		M	M.
- Staircase timer + mainten Type 14.91	ance function	@ finder	() Inder
- Signal ON pulse timer			
• Time setting from 30 secon			
"Zero crossing" load switchiWiring compatible with me		South Addresses	LAN ADDRESS
and with old type (low emis		• •	• •
pushbuttonsSuitable for 3 or 4 wire systematic	ems, via		
"pushbutton configuration"			
 110125 V AC supply versi Cadmium free contact mate 		Mono-function:	Mono-function:
 Can be used with illuminate "Blade + cross" - both flat bl 		 Staircase timer + maintenance function 	 Signal ON pulse timer All 3 terminal on same side
head screw drivers can be u	ised to adjust the	All 4 terminal on same side	• All 5 terminal off same side
function selector, the timin disengage the 35 mm rail n			
• 35 mm rail (EN 60715) mou			
14.81/91			
Screw terminal			
For outline drawing see page	10		
Contact specification			
Contact configuration		1 NO (SPST-NO)	1 NO (SPST-NO)
Rated current/Maximum pea	k current A	16/30 (120 A - 5 ms)	16/30 (120 A - 5 ms)
Rated voltage/			
Maximum switching voltage Rated load AC1	V AC VA	230/— 3700	230/— 3700
Rated load AC15 (230 V AC)	VA	750	750
Nominal lamp rating:			
230 V incar	ndescent/halogen W	3000	3000
fluor	escent tubes with		
	electronic ballast W	1500	1500
	prescent tubes with promagnetic ballast W	1000	1000
	CFL W	600	600
	230 V LED W	600	600
LV ha	logen or LED with		
	electronic ballast W	600	600
	nalogen or LED with tromagnetic ballast W	1500	1500
Minimum switching load	mW (V/mA)	1000 (10/10)	1000 (10/10)
Standard contact material		AgSnO ₂	AgSnO ₂
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	AC1	100, 103	100, 103
Electrical life at rated load in A Delay setting	AC1 cycles min	100 · 10 ³	0.520
Max no. of illuminated push-l		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	e)	CE ERE ®	CE EHE

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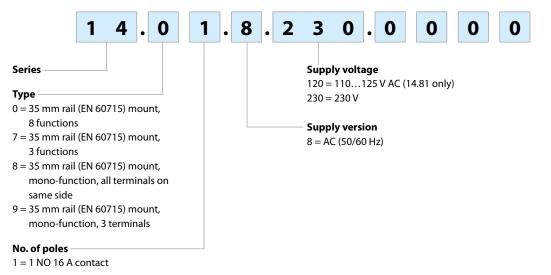
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SERIES

Ordering information

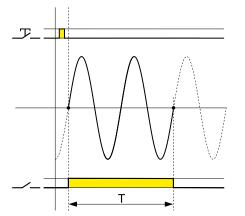
Example: 14 series multi-function timer, 1 NO (SPDT-NO) 16 A contact, supply rated at 230 V AC.



Technical data

insulation				
Dielectric strength between op	en contacts	V AC	1000	
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
		mm²	1 x 6 / 2 x 4	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

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

Using the type 14.91, the lamps are switched on directly by the push-button

Accessories



Adaptor for panel mounting, 17.5 mm wide

020.01

060.48



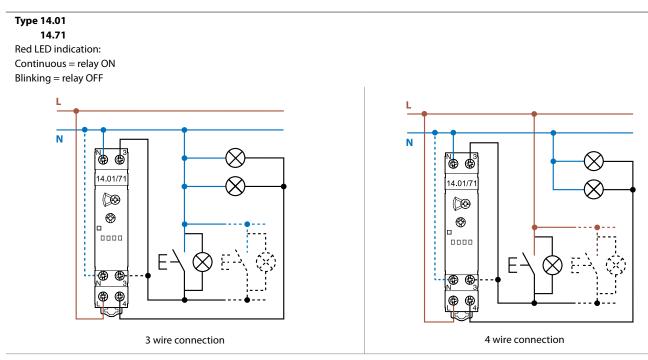
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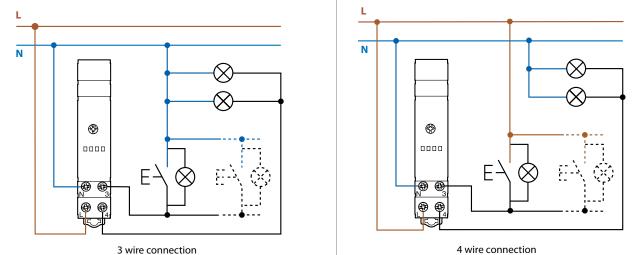




Wiring diagrams



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



3 wire connection

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

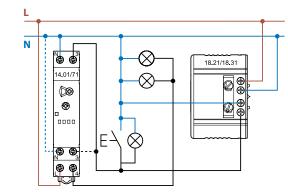
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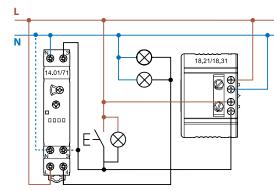
14 SERIES

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

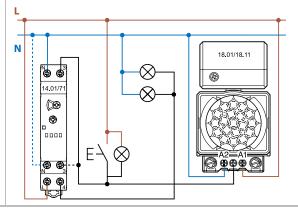
3 wire connection (with 18.21.8.230.0300 or 18.31.8.230.0300 only)



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)



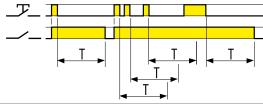


Functions

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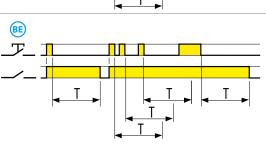
Type 14.01 Functions selectable with front rotary selector

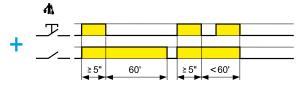


(BE) Staircase timer

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.

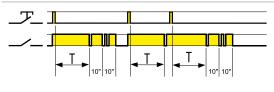
On expiry of the time delay, the output contact opens.





(ME) Staircase timer + Staircase maintenance

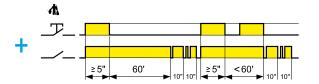
In addition to the Staircase timer function (BE), an impulse of \geq 5 seconds will close the output contact for 60 minutes, after which time the contact will open. Ideal for maintenance or cleaning activities. The 60 minute timing can be interrupted by a further impulse of \geq 5 seconds, and the output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



(BP) Staircase timer with early warning

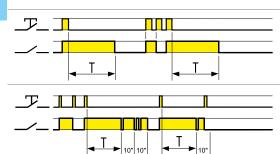
On initial impulse the output contact closes and the timing starts for the pre-set duration. After the timing period, the output contact blinks off once; 10secs later the contact blinks off twice, and after a further 10secs the contact opens.

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.



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

$\overset{\circ}{\circ}$ 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.

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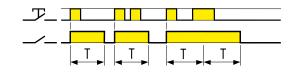
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Functions

Type 14.71 Functions selectable with front selector

-function front selector	
Staircase timer + 🔥 Staircase maintenance	
🗘 🗘 Light ON	
G Staircase timer (compatible with 18 series move	ment detectors)
	 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.
 ≥5" 60' ≥5" <60'	A staircase maintenance An impulse of \ge 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 \ge 5 seconds, the output contact opens.
	Light ON With this function set - the output contact stays permanently closed.
rpe 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.
 ≥5" 60' ≥5" <60'	"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 wil re-establish the staircase timer function; so on expiry of the staircase time delay, the output contact opens.

Type 14.91

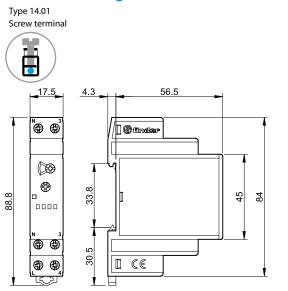


Signal ON pulse

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.

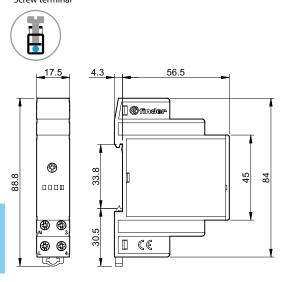


Outline drawings

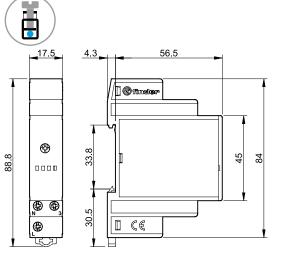


Type 14.71 Screw terminal 59.5 17.5 4.3 56.5 ° • 🛛 🕲 Minder B ۲ 33.8 88.8 45 84 0000 ۲ • 30.5 • CE G 1

Type 14.81 Screw terminal



Type 14.91 Screw terminal



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