

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 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



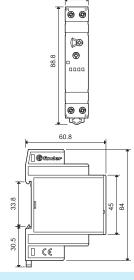


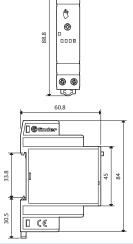
- Multi-function
- 1 NO (SPST-NO)



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

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Contact specification				
Contact configuration		1 NO (SPST-NO)	1 NO (SPST-NO)	
Rated current/Maximum pe	ak 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	.C) 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	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		$AgSnO_2$	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 i	n 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)		(€ Œ (



Features

Range of electronic staircase timers

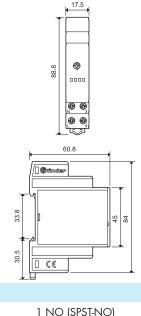
- 17.5 mm wide
- Time setting from 30 s to 20 min
- "Zero crossing" load switching
- Types 14.81 and 14.91: wiring compatible with mechanical versions and with old type (low emission) illuminated pushbuttons
- Suitable for 3 or 4 wire systems, with automatic recognition (14.01 and 14.71) or via "pushbutton configuration" (14.81)
- Cadmium free contact material
- Can be used with illuminated push buttons

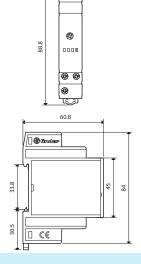
 Blade + cross both flat blade and cross head screw drivers can be used to adjust the function selector, the timing trimmer, and to disengage the 35 mm rail mounting clip





- Mono-function
- 1 NO (SPST-NO)
- 35 mm rail (EN 60715) mount
- All terminals on same side
- **14.91**
- Mono-function
- 1 NO (SPST-NO)
- 35 mm rail (EN 60715) mount
- 3 terminals, on same side



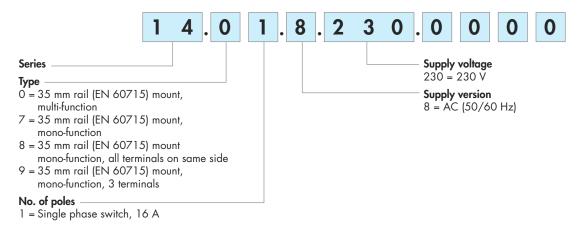


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Contact specification		<u> </u>	¥.0	
Contact configuration		1 NO (SPST-NO)	1 NO (SPST-NO)	
Rated current/Maximum peak	current A	16/30 (120 A - 5 ms)	16/30 (120 A - 5 ms)	
Rated voltage/Maximum switch	ng voltage V AC	230/—	230/—	
Rated load AC1	VA	3,700	3,700	
Rated load AC15 (230 V AC)	VA	750 750		
Nominal lamp rating:incandes	cent (230 V) W	3,000	3,000	
compensated fluoresc	ent (230 V) W	1,000	1,000	
uncompensated fluorescent (230 V) W		1,000	1,000	
halog	gen (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)			C€	



Ordering information

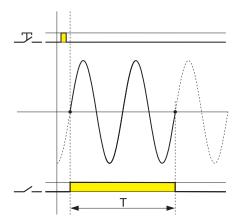
Example: 14 series multi-function relay, single phase switch 1 NO (SPDT-NO) 16 A contact, supply rated at 230 V AC.



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

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

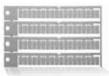
Accessories



Adaptor for panel mounting, 17.5 mm wide

020.01

020.01



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

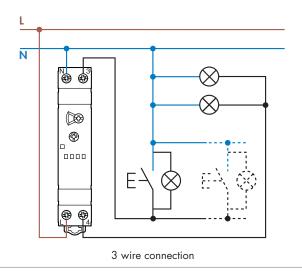
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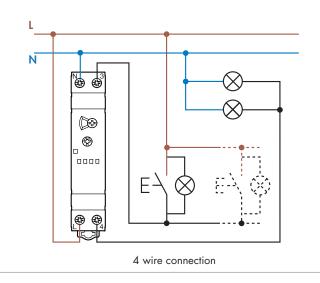


Wiring diagrams

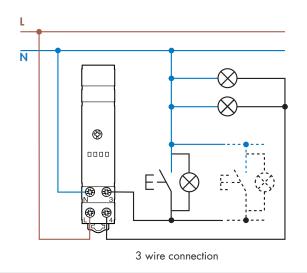
Type 14.01 14.71 Red LED indication:

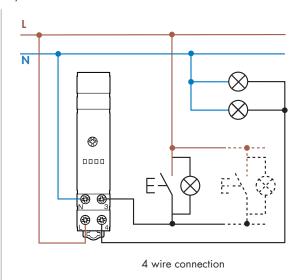
Red LED indication: Continuous = relay ON Blinking = relay OFF



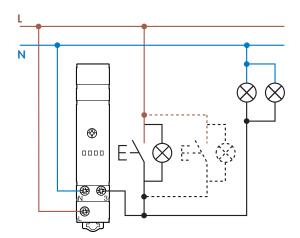


Type 14.81 (pushbutton configuration required as per the Installation manual)





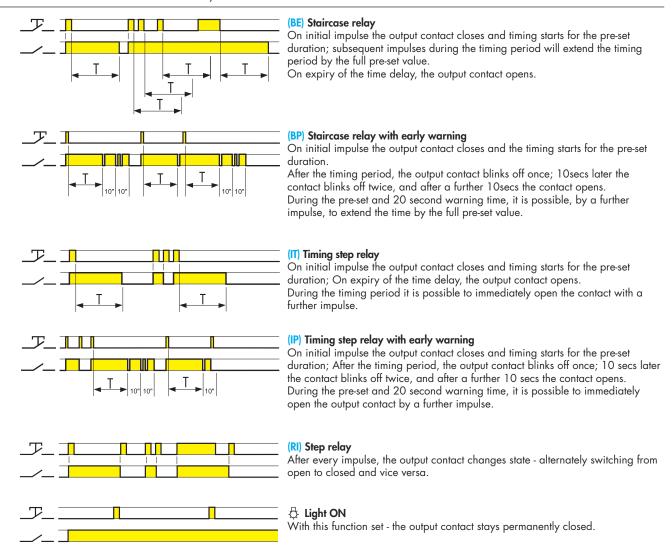
Type 14.91 (the push-buttons must be rated for the load current)





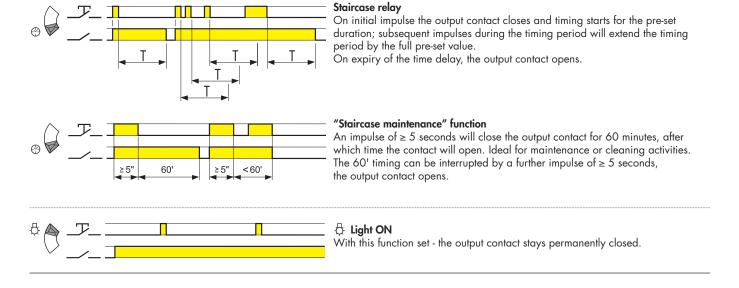
Functions

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.

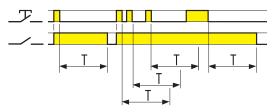
Type 14.71 Functions selectable with front selector





Functions

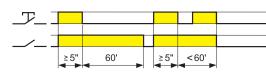
Type 14.81



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.

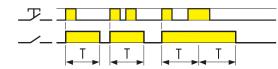
On expiry of the time delay, the output contact opens.



"Staircase maintenance" function

An impulse of ≥ 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.