

Timetec-Staircase

Staircase Switch



The Timetec-Staircase enables delayed switching off of lighting on stairs, corridors, entrances, common areas or for delayed running of fans in the toilet or bathroom.

- 6 functions selectable by the potentiometer on the front panel
- A long press (> 2s) can switch off the output immediately
- Control input with the possibility of loading up to 100mA load (neon lamp, push button with LED indicator, etc.)
- Adjustable time range 0.5 to 10 minutes
- Handles surge currents up to 80A
- 3-wire or 4-wire connection (input S can be controlled by potential A1 or A2)
- Supply Voltage 230Vac
- Output contact 1 x changeover / SPST 16A
- 1-module, DIN-Rail mounting

Order Code

Timetec-Staircase

Timetec-Staircase Technical Specification

Number of Functions	6
Supply Terminals	A1 - A2
Supply Voltage	230Vac (AC 50 - 60Hz)
Consumption	3VA / 1.6W max.
Max. Dissipated Power (Un + Terminals)	4W
Supply Voltage Tolerance	-15%, +10%
Supply Indication	Green LED
Time Ranges	0.5 - 10min
Time Setting	Potentiometer
Time Deviation	5% (Mechanical Setting)
Repeat Accuracy	5% (Set Value Stability)
Temperature Coefficient	0.01% / °C, at = 20°C
Control Voltage	AC 230V
Control Input Power	4.5VA / 0.3W max.
Neon Lamp Connection	Yes
Current of Connected Neon Lamps	100mA max.
Control Terminals	A1-S or A2-S
Impulse Length	Min. 40ms / max. Unlimited
Reset Time	Max. 320ms
Changeover Contacts	1 x NO / SPST (AgSnO ₂)
Rated Current	16A / AC1
Breaking Capacity	4000VA / AC1, 384W / DC
Inrush Current	30A / < 3s

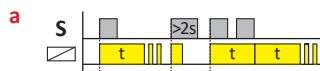
Timetec-Staircase Technical Specification

Switching Voltage	250Vac / 24Vdc
Output Indication	Red LED
Mechanical Life	5,000,000 Cycles
Electrical Life (AC1)*	25,000 Cycles
Operating Temperature	-20°C to +55°C
Storage Temperature	-30°C to +70°C
Operating Position	Any
Mounting	DIN-Rail EN 60715
Protection Degree	IP40 from Front Panel / IP10 Terminals
Overvoltage Category	III
Pollution Degree	2
Max. Cable Size (mm ²)	Solid Wire max. 2x 2.5 or 1x 4 / Stranded Wire with Ferrule max. 1x 2.5 or 2x 1.5 (AWG 12)
Dimensions	90 x 17.6 x 64mm
Weight	56g
Standards	EN 61812-1

* For higher loads and frequent switching, it is recommended to strengthen the relay contact with a power contactor.

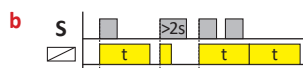
Timetec-Staircase Functions

When switching between functions, the red LED flashes.



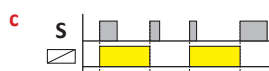
a - Staircase Switch, *with* turn off signalling

In this mode the relay will run for the set time. At both 30s and 40s before the switch off point the relay will double flash the output to warn of impending switch off. The user can extend the ON time by briefly pressing the input switch repeatedly. This mode is suitable for resistive loads e.g. bulbs but not e.g. fluorescent ballasts.



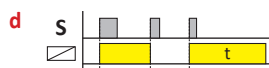
b - Staircase Switch, *without* turn off signalling

In this mode the relay will run for the set time and then turn off without warning. The user can extend the ON time by briefly pressing the input switch repeatedly. The function is suitable for loads that cannot withstand frequent switching on and off (e.g. energy saving lamps, LED bulbs).



c - Memory Latch (press to switch on, press to switch off)

In this mode the relay will turn on when you press the switch. The relay will then stay on until you press the switch again. This function is primarily intended for locations where long-term lighting (without timing) is desirable but you require control switches in multiple locations (e.g. office buildings).



d - Memory Latch with delay

In this mode the relay function is the same as option C except that if the relay is not turned off by pressing a switch within the set time "t", then the relay will turn off automatically. This function is suitable for places where lighting is often left on by accident (e.g. toilets, corridors, cellars).