Installation Technique

MINITIMER Staircase Lighting Timer RK 8810/003

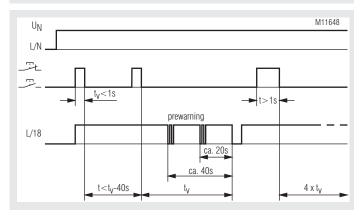
Translation of the original instructions





- According to EN 60669-1, EN 60669-2-1
- Setting range: short pressing of button 0.5 ... 10 min long pressing of button 2 ... 40 min
- For 4-wire circuit L on push button and 3-wire circuit N on push button
- Can be retriggered
- With pre-warning shortly before end of time delay
- Switch for continuous light on unit
- Contact: 16 A
- Width 17.5 mm

Function Diagram



Approvals and Markings

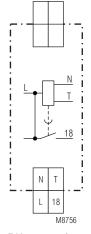


Application

Time delayed switching off for lights

Function

If the button is pressed longer then 1 s the adjusted time will be multipied by 4, the timing is retriggerable i.e. if the pushbutton is pressed again during timing the adjusted delay time starts again without interruption. Approx. 30 s before end of timing the light flashes shortly to indicate that the light will go off.



RK 8810.41/003

Circuit Diagram

Connection Terminals

Terminal designation	Signal description
L, N	Auxiliary voltage AC
T, L or N	Button
L, 18	Contact output

Notes

Unit and push button have to be connected to the same phase (see connection diagram) The output contact is not volt free.

Maintenance

Inspection test and maintenance intervals are to be performed annually.

Technical Data

Time Circuit

Time range: Pressing of button < 1 s: 0.5 ... 10 min

pressing of button > 1 s : 2 ... 40 min

Repeat accuracy: < 1 % of setting value

Input

Nominal voltage U_N: AC 230 V Voltage range: 0.9 ... 1.1 U_N Nominal consumption: Approx. 5 VA Nominal frequency: 50 / 60 Hz

Permitted residual current caused by glow lamps in the push buttons

Max. 50 glow lamps à 1 mA

Min. pulse duration: 30 ms

Technical Data

Output

1 NO contact, delay Contacts:

Contact opening gap: > 3 mm Thermal current I,: 16 A

Switching capacity with lamp load Fluorescent lamp load Duo switching:

2 x 20 lamps with 58 W each (series compensated)

Glow lamp load: 2000 W Short circuit current strength: > 700 A

Short circuit strength

max. fuse rating: 16 A gG / gL IEC/EN 60947-5-1

> 1 x 10⁶ switching cycles Mechanical life:

General Data

Nominal operating mode: Impulse operation / continuous operation Temperature range

Operation: - 20 ... + 50°C Storage: - 40 ... + 70°C

Clearance and creepage

distances

Rated impulse voltage /

pollution degree: 4 kV / 2 IEC 60664-1 EMC

Electrostatic discharge (ESD): 8 kV (air)

HF irradiation 80 MHz ... 1 GHz: 10 V / m IEC/EN 61000-4-3

10 V / m 1 GHz ... 2.7 GHz: IEC/EN 61000-4-3 Fast transients: IEC/EN 61000-4-4 2 kV Surge voltages

between

wires for power supply: 1 kV IEC/EN 61000-4-5 between wire and ground: IEC/EN 61000-4-5 2 kV

HF wire guided

0.15 ... 80 MHz: 10 V IEC/EN 61000-4-6 Interference suppression: Limit value class B EN 55011

Degree of protection:

IP 40 IEC/EN 60529 Housing: Terminals: IP 20 IEC/EN 60529 Enclosure: Thermoplast with V0-behaviour

according to UL subj. 94

Vibration resistance Amplitude 0,35 mm

frequenzy 10 ... 55 Hz IEC/EN 60068-2-6 20 / 050 / 04 Climate resistance: IEC/EN 60068-1

EN 50005 Terminal designation:

DIN 46228-1/-2/-3/-4 Wire connection:

Fixed screw terminals

0.5 ... 10 mm2 (AWG 20 - 8) solid or Cross section:

0.5 ... 6 mm2 (AWG 20 - 10)

stranded wire with and without ferrules

IEC/EN 61000-4-2

Stripping length: 10 mm Fixing torque: 0.8 Nm

Wire fixing: Cross-head screw / M3.5 box terminals Mounting: DIN rail IEC/EN 60715

Weight: Approx. 80 g

Dimensions

Width x Height x Depth: 17.5 x 90 x 66 mm

Standard Type

RK 8810.41/003 AC 230 V 50 / 60 Hz 0.5 ... 10 min / 2 ... 40 min

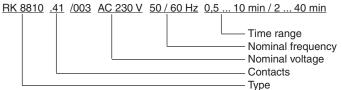
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1 NO contact, delay Output:

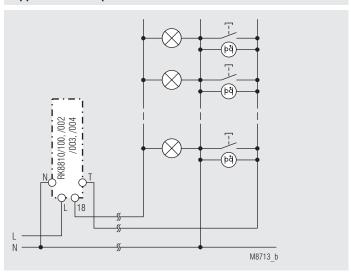
Nominal voltage U_N: AC 230 V

Timer range: 0.5 ... 10 min / 2 ... 40 min Width: 17,5 mm

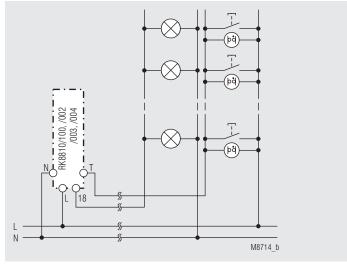
Ordering Example



Application Examples



3-wire circuit N on push button



4-wire circuit L on push button