

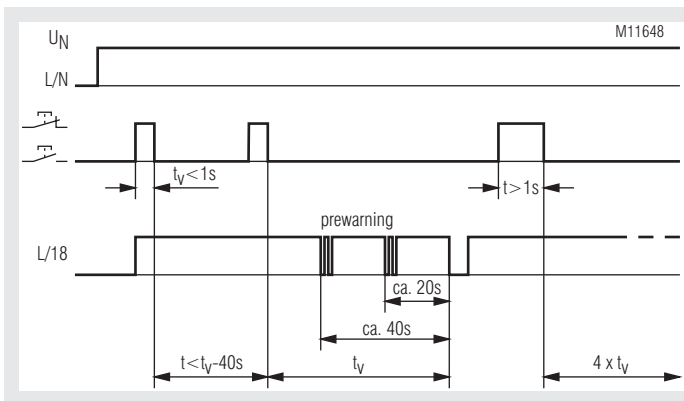
MINITIMER Staircase Lighting Timer RK 8810/003

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



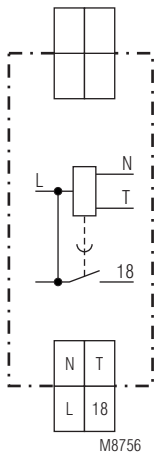
Application

Time delayed switching off for lights

Function

If the button is pressed longer than 1 s the adjusted time will be multiplied 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.

Circuit Diagram



RK 8810.41/003

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

| | | |
|---|--|------------------|
| Contacts: | 1 NO contact, delay | |
| Contact opening gap: | > 3 mm | |
| Thermal current I_{th}: | 16 A | |
| Switching capacity with lamp load | Fluorescent lamp load | |
| Duo switching: | (series compensated) 2 x 20 lamps with 58 W each | |
| 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 |
| Mechanical life: | > 1 x 10 ⁶ switching cycles | |

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) IEC/EN 61000-4-2 | |
| HF irradiation | 80 MHz ... 1 GHz: 10 V / m IEC/EN 61000-4-3 | |
| 1 GHz ... 2.7 GHz: | 10 V / m IEC/EN 61000-4-3 | |
| Fast transients: | 2 kV IEC/EN 61000-4-4 | |
| Surge voltages between | wires for power supply: 1 kV IEC/EN 61000-4-5 | |
| wires for power supply: | between wire and ground: 2 kV IEC/EN 61000-4-5 | |
| 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: | Housing: IP 40 IEC/EN 60529 | |
| Terminals: | IP 20 IEC/EN 60529 | |
| Enclosure: | Thermoplast with V0-behaviour according to UL subj. 94 | |
| Vibration resistance | Amplitude 0,35 mm | |
| Climate resistance: | frequenzy 10 ... 55 Hz IEC/EN 60068-2-6 | |
| Terminal designation: | 20 / 050 / 04 IEC/EN 60068-1 | |
| Wire connection: | EN 50005 | |
| Fixed screw terminals | DIN 46228-1/-2/-3/-4 | |
| Cross section: | 0.5 ... 10 mm ² (AWG 20 - 8) solid or 0.5 ... 6 mm ² (AWG 20 - 10) stranded wire with and without ferrules | |
| 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 | |

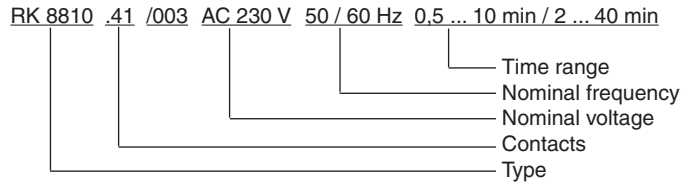
Dimensions

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

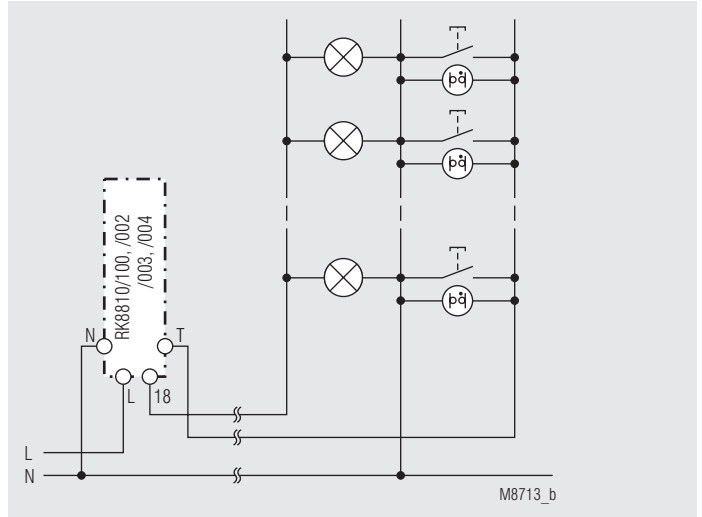
Standard Type

| | | | |
|---------------------------|-------------------------------|------------|-------------------------------|
| RK 8810.41/003 | AC 230 V | 50 / 60 Hz | 0.5 ... 10 min / 2 ... 40 min |
| Article number: | 0058994 | | |
| • Output: | 1 NO contact, delay | | |
| • Nominal voltage U_N : | AC 230 V | | |
| • Timer range: | 0.5 ... 10 min / 2 ... 40 min | | |
| • Width: | 17,5 mm | | |

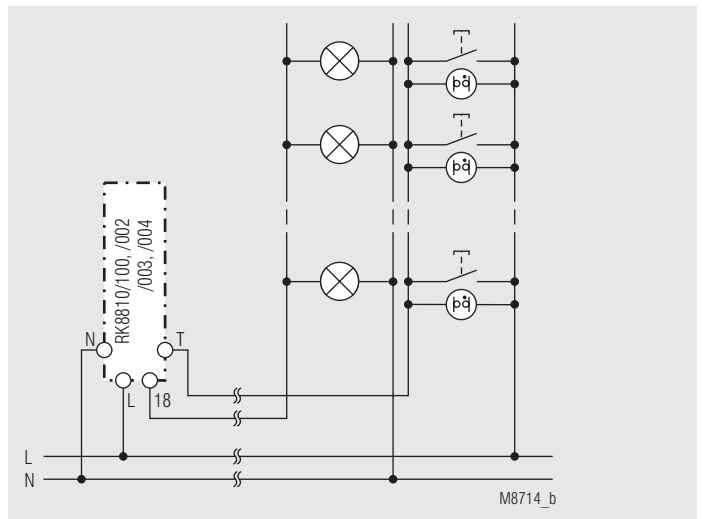
Ordering Example



Application Examples



3-wire circuit N on push button



4-wire circuit L on push button