

Installation Technique

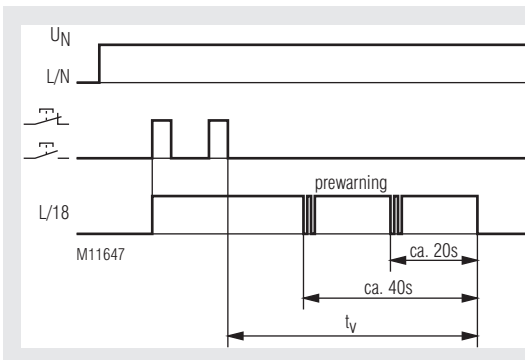
MINITIMER Time Switch With Pre-Warning RK 8810/002

Translation
of the original instructions



- According to EN 60669-1, EN 60669-2-1
- Setting range 0.5 ... 10 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



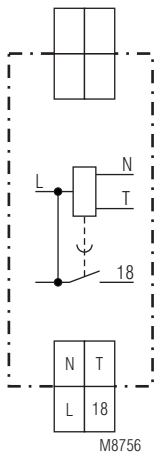
Application

Staircase lighting time switch with prewarning

Function

The timing is retriggerable, i.e. if the push button is pressed again during timing the adjusted delay time starts again without interruption. A short time before end of timing the light flashes shortly to indicate that the light will go off.

Circuit Diagram



M8756
RK 8810.41/002

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: 0.5 ... 10 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:

Min. pulse duration: Max. 50 glow lamps à 1 mA
30 ms

Connection Terminals

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

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:	> 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
between wire and ground:	2 kV	IEC/EN 61000-4-5
HF wire guided	0.15 ... 80 MHz: 10 V IEC/EN 61 00-4-6	
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 frequency 10 ... 55 Hz IEC/EN 60068-2-6	
Climate resistance:	20 / 050 / 04 IEC/EN 60068-1	
Terminal designation:	EN 50005	
Wire connection:	DIN 46 228-1/-2/-3/-4	
Fixed screw terminals	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	EN 60999-1
Wire fixing:	Cross-head screw / M3.5 box terminals	
Mounting:	DIN rail	IEC/EN 6 715
Weight:	Approx. 80 g	

Dimensions

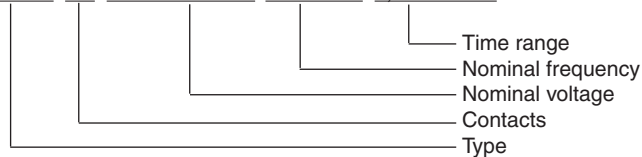
Width x Height x Depth: 17.5 x 90 x 66 mm

Standard Type

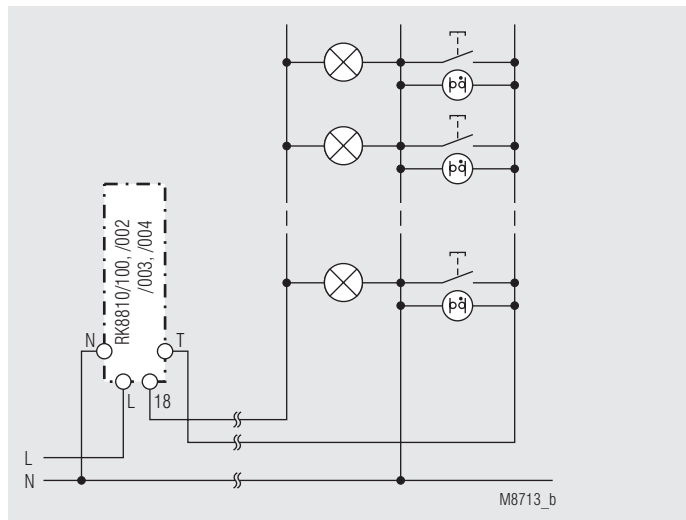
RK 8810.41/002	AC 230 V	50 / 60 Hz	0.5 ... 10 min
Article number:	0058993		
• Output:	1 NO contact, delay		
• Nominal voltage U_N :	AC 230 V		
• Timer range:	0.5 ... 10 min		
• Width:	17.5 mm		

Ordering Example

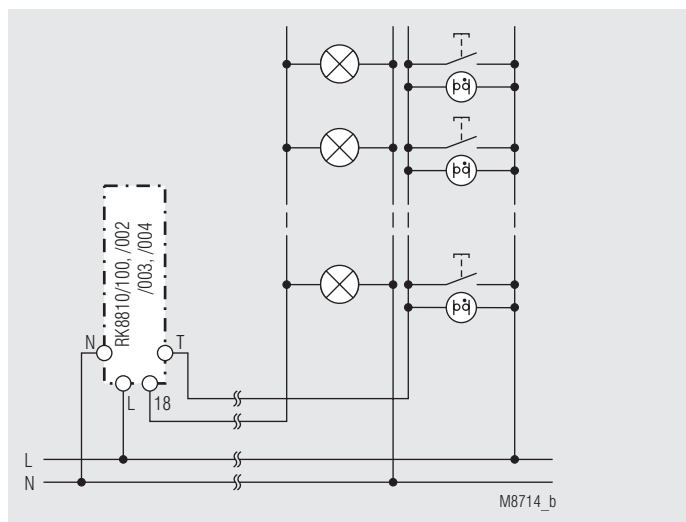
RK 8810 .41 /002 AC 230 V 50 / 60 Hz 0.5 ... 10 min



Application Examples



3-wire circuit N on push button



4-wire circuit L on push button