

Installation Technique

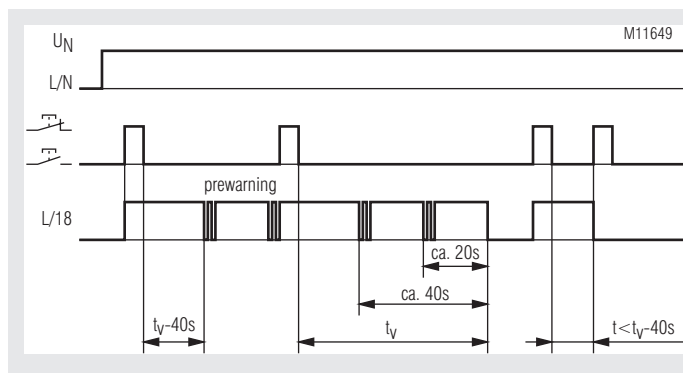
MINITIMER

Energy Saving Time Switch
RK 8810/004



- According to EN 60 669-1, EN 60 669-2-1
- Setting range: for long times 3 ... 60 min
- For 4-wire circuit L on push button and 3-wire circuit N on push button
- With pre-warning shortly before end of time delay
- Light can be switched off before pre-warning
- Light can be retriggered after pre-warning
- Switch for continuous light on unit
- Contact: 16 A
- Width 17.5 mm

Function Diagram



Approvals and Markings



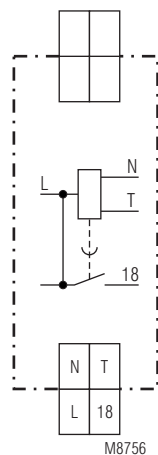
Application

On and Off switching of lights

Function

Approx. 30 s before end of timing the light flashes shortly to indicate that the light will go off. If the pushbutton is pressed again before prewarning, the light is switched off immediately. If the pushbutton is pressed after prewarning the adjusted time is started again without interruption on the output contact

Circuit Diagram



RK 8810.41/004

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: 3 ... 60 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

Connection Terminals

Terminal designation	Signal designation
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 AgL IEC/EN 60 947-5-1
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 60 664-1
EMC		
Electrostatic discharge (ESD):	8 kV (air)	IEC/EN 61 000-4-2
HF irradiation		
80 MHz ... 1 GHz:	10 V / m	IEC/EN 61 000-4-3
1 GHz ... 2.7 GHz:	10 V / m	IEC/EN 61 000-4-3
Fast transients:	2 kV	IEC/EN 61 000-4-4
Surge voltages between		
wires for power supply:	1 kV	IEC/EN 61 000-4-5
between wire and ground:	2 kV	IEC/EN 61 000-4-5
HF wire guided		
0.15 ... 80 MHz:	10 V	IEC/EN 61 000-4-6
Interference suppression:	Limit value class B	EN 55 011
Degree of protection:		
Housing:	IP 40	IEC/EN 60 529
Terminals:	IP 20	IEC/EN 60 529
Enclosure:	Thermoplast with V0-behaviour according to UL subj. 94	
Vibration resistance	Amplitude 0,35 mm frequency 10 ... 55 Hz IEC/EN 60 068-2-6	
Climate resistance:	20 / 050 / 04	IEC/EN 60 068-1
Terminal designation:	EN 50 005	
Wire connection:	DIN 46 228-1/-2/-3/-4	
Fixed screw terminals		
Cross section:	0.5 ... 10 mm² (AWG 20 - 8) solid or 0.5 ... 6 mm² (AWG 20 - 10) stranded wire with and without ferrules	
Stripping length:	10 mm	
Fixing torque:	0.8 Nm	EN 60 999-1
Wire fixing:	Cross-head screw / M3.5 box terminals	
Mounting:	DIN rail	IEC/EN 60 715
Weight:	approx. 80 g	

Dimensions

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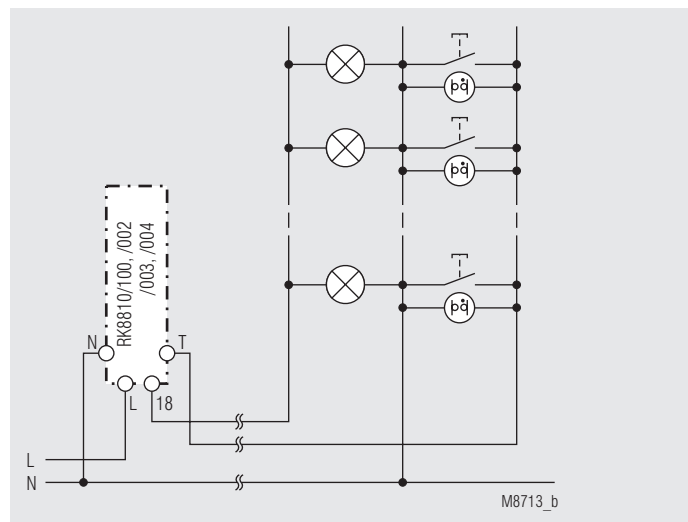
Standard Type

RK 8810.41/004	AC 230 V	50 / 60 Hz	3 ... 60 min
Article number:	0058995		
• Output:	1 NO contact, delay		
• Nominal voltage U_N :	AC 230 V		
• Timer range:	3 ... 60 min		
• Width:	17.5 mm		

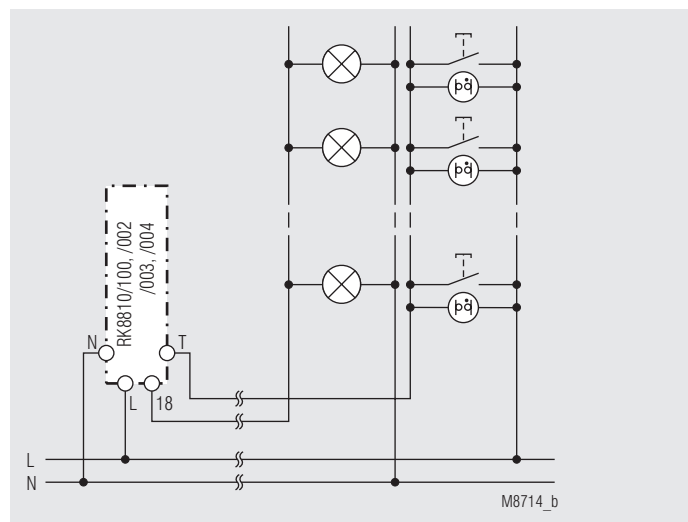
Ordering Example

RK 8810	.41	/004	AC 230 V	50 / 60 Hz	3 ... 60 min	
						Time range
						Nominal frequency
						Nominal voltage
						Contacts
						Type

Application Examples



3-wire circuit N on push button



4-wire circuit L on push button