

## MINITIMER Staircase Lighting Time Switch IK 8810/003

Translation  
of the original instructions



### Your Advantages

- Energy saving
- Increase of the service life of the lamps

### Features

- 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
- Switch for continuous light on unit
- Contact: 16 A
- Width 17.5 mm

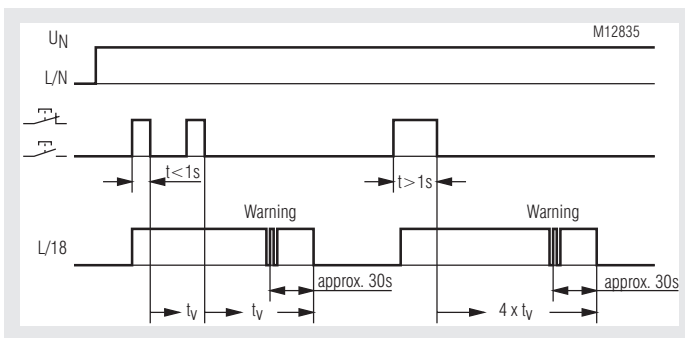
### Product Description

The Staircase lighting time switch IK 8810/003 of the MINITIMER series has an adjustable running time and can be switched to continuous lightning by means of a slide switch.

### Approvals and Markings



### Function Diagram



### Application

Time delayed switching off for lights

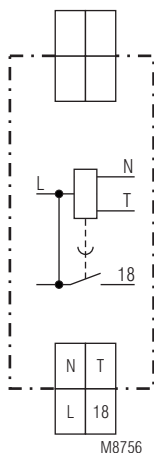
### Function

If the button is pressed longer then 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.

### Indication

LED: On when output relay activated

### Circuit Diagram



### Notes

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

### Connection Terminals

Terminal designation	Signal description
L	Phase voltage
N	Neutral
T	Control input for buttons
18	Output contact

## Technical Data

### Time Circuit

<b>Time range:</b>	At push < 1 s: 0.5 ... 10 min at push > 1 s: 2 ... 40 min
<b>Repeat accuracy:</b>	< 1 % of setting value

### Input

<b>Nominal voltage <math>U_N</math>:</b>	AC 230 V
<b>Voltage range:</b>	0.8 ... 1.1 $U_N$
<b>Nominal consumption</b>	
apparent power:	4 VA
effective power:	1 W
<b>Nominal frequency:</b>	50 / 60 Hz
<b>Permitted residual current caused by glow lamps in the push buttons</b>	max. 10 glow lamps à 1 mA

### Output

<b>Contacts:</b>	1 NO contact, delay
<b>Contact opening gap:</b>	< 3 mm
<b>Thermal current <math>I_{th}</math>:</b>	16 A
<b>Switching capacity at lamp load</b>	
Glow lamp load:	1200 W at $T_{ein} / T_{aus} = 1 \text{ s} / 1 \text{ s}$
<b>Short circuit strength</b>	
<b>max. fuse rating:</b>	16 A gG / gL IEC/EN 60947-5-1
<b>Mechanical life:</b>	> 10 <sup>6</sup> switching cycles

### General Data

<b>Nominal operating mode:</b>	Impulse operation
<b>Temperature range</b>	
Operation:	- 20 ... + 60 °C
Storage:	- 20 ... + 70 °C
<b>Altitude:</b>	≤ 2000 m
<b>Clearance and creepage distances</b>	
Rated impulse voltage / pollution degree:	4 kV / 2 IEC 60664-1
<b>EMC</b>	
Electrostatic discharge (ESD):	8 kV (air) IEC/EN 61000-4-2
HF-irradiation:	
80 MHz ... 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:	2 kV IEC/EN 61000-4-5
between wire and ground:	4 kV IEC/EN 61000-4-5
HF wire guided:	10 V IEC/EN 61000-4-6
Interference suppression:	Limit value class B EN 55011
<b>Degree of protection</b>	
Housing:	IP 40 IEC/EN 60529
Terminals:	IP 20 IEC/EN 60529
<b>Housing:</b>	Thermoplast with V0-behaviour according to UL subj. 94
<b>Vibration resistance</b>	Amplitude 0.35 mm frequency 10 ... 55 Hz IEC/EN 60068-2-6
<b>Climate resistance:</b>	20 / 045 / 04 IEC/EN 60068-1
<b>Terminal designation:</b>	EN 50005
<b>Wire connection:</b>	DIN 46228-1/-2/-3/-4
Cross section:	2 x 2.5 mm <sup>2</sup> solid or 2 x 1.5 mm <sup>2</sup> stranded wire with sleeve
Insulation of wires or sleeve length:	10 mm
<b>Wire fixing:</b>	Flat terminals with self-lifting clamping piece IEC/EN 60999-1
<b>Fixing torque:</b>	Max. 0.8 Nm
<b>Mounting:</b>	DIN rail IEC/EN 60715
<b>Weight:</b>	75 g

### Dimensions

<b>Width x Height x Depth:</b>	17.5 x 90 x 58 mm
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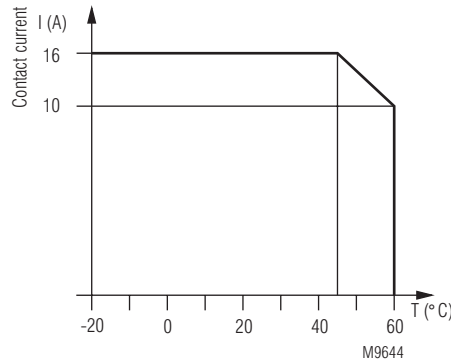
## Standard Type

IK 8810.41/003	AC 230 V	50 / 60 Hz	0.5 ... 10 min / 2 ... 40 min
Article number:	0057584		
• 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		

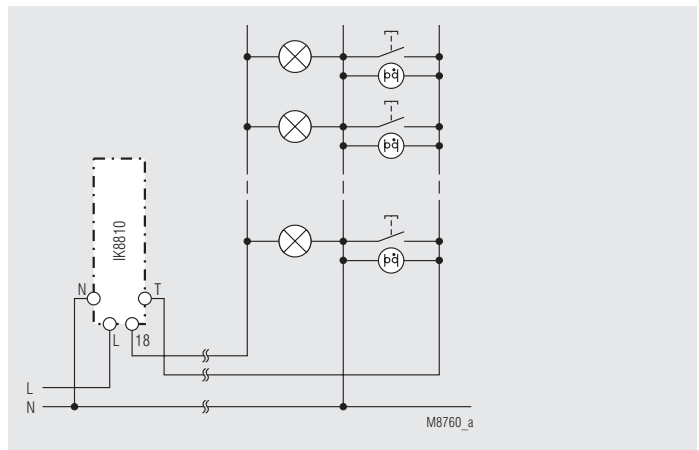
## Ordering Example

IK 8810	.41	/003	AC 230 V	50 / 60 Hz	0.5 ... 10 min / 2 ... 40 min
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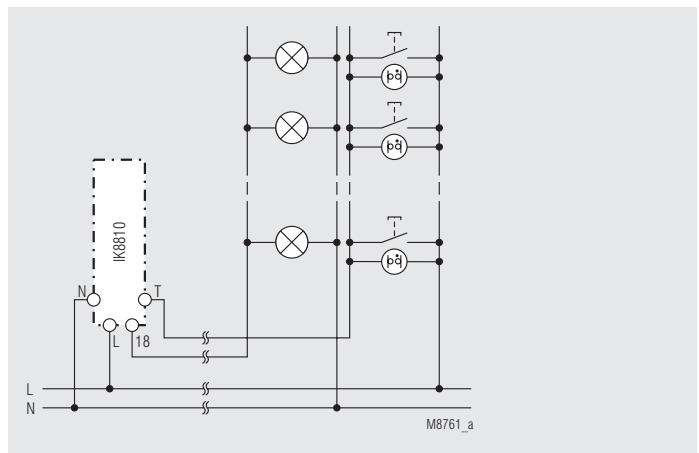
## Characteristic



## Application Examples



3-wire circuit N on push button



4-wire circuit L on push button