Installation Technique

MINITIMER Lighting Timing Switch IK 8814

Translation of the original instructions





- According to EN 60669-1, EN 60669-2-1
- Reswitching possible
- Operating times between 0.5 ... 60 min., as required
- With permanent light switch and LED indicator for contact position
- For installation in rows, width 17.5 mm

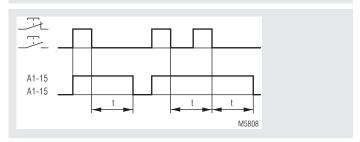
Product Description

The IK 8814 lighting timer has an adjustable running time and can be switched to continuous light by means of a slide switch.

Approvals and Markings



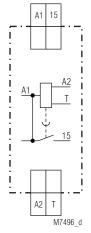
Function Diagram



Applications

- Automatic staircase light switch
- Delayed-release timing relay
- · Time-lag switch

Circuit Diagram



Circuit Diagrain

IK 8814.41

Functio	l
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The IK 8814 unit, controlled by a static timer, can be used as a staircase lighting controller, as a off-delay time relay or as an overrun switch. The IK 8814 is designed for quick mounting on a top-hat rail.

When used as a staircase lighting controller, control is via push-buttons using either a 3- or 4-wire connection. The push-button and the unit must be connected to the same phase. When a push-button is pressed, the contact goes into the active position and the set time runs out. The active position is indicated by an LED.

During the time lapse, the lighting timer can be switched on at any time by pressing the button again, whereby the time delay starts again from the beginning without interruption (with 4-wire switching).

The IK 8814 can be switched to permanent light with a slide switch on the front.

The IK 8814 can also be used as an overrun relay for a second consumer (e. g. fan) if it is wired accordingly (see connection diagrams). When the first load (e. g. light) is switched on, the contacts go into the active position and the second load is switched on. After the first consumer is switched off, the contact remains in the active position for the duration of the set time delay.

Connection Terminals

Terminal designation	Signal description
A1	L
A2	N
Т	Control input for buttons
15	Contact-output delayed

Indicators

LED:

On, when the output relay is activated

Technical Data

Timing circuit

Timing ranges: 0.5 ... 10 min, 1 ... 20 min, 3 ... 60 min

Repeat accuracy: \pm 2 % of the full scale value

Input

AC 230 V Nominal voltage U_N: Voltage range: 0.8 ... 1.1 U_N

Nominal consumption

Apparent power: 5 VA Actual power: 0.3 W Nominal frequency: 50 / 60 Hz

Glow lamps

parallel to the pushbutton: 40 mA

Output

Contacts

IK 8814.41: 1 NO contact, delayed

Thermal current I :: 10 A

Switching capacity with lamp load Fluorescent lamp load

Duo-switching: 20 lamps with 58 W 5 x 10⁴ switching cycles

Glow lamp load: 1200 W

Short circuit strength

max. fuse rating: 10 A gG / gL IEC/EN 60947-5-1

> 10⁶ switching cycles Mechanical life:

General Data

Operating mode: Continuous operation

Temperature range

Operation: - 20 ... + 45 °C - 20 ... + 60 °C Storage: Altitude: ≤ 2000 m

Clearance and creepage

distances Rated impulse voltage /

4 kV / 2 IEC 60664-1 pollution degree:

EMC

Electrostatic discharge: 8 kV (air) IEC/EN 61000-4-2 HF-irradiation: 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 Interference suppression: Limit value class B EN 55011 Degree of protection

IP 40 IEC/EN 60529 Housing: Terminals: IP 20 IEC/EN 60529 Vibration resistance: Amplitude 0.35 mm IEC/EN 60068-2-6

frequency 10 ... 55 Hz

20 / 045 / 04 Climate resistance: IEC/EN 60068-1 Housing: Thermoplastic with V0 behaviour

according to UL subject 94 DIN 46228-1/-2/-3/-4

Wire connection 2 x 0.6 ... 2.5 mm2 solid or Cross section:

2 x 0.28 ... 1.5 mm² stranded wire with

and without ferrules

Stripping length: 10 mm

Wire fixing: Plus-Minus-terminal screws M3,5 with self-lifting clamping piece IEC/EN 60999-1

0.8 Nm

Fixing torque: Mounting: DIN rail IEC/EN 60715 Weight

70 g

Dimensions

Width x height x depth: 17.5 x 89 x 58 mm

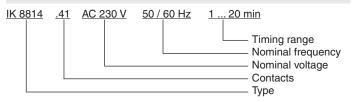
Standard Type

IK 8814.41 AC 230 V 50 / 60 Hz 1 ... 20 min Article number: 0029189

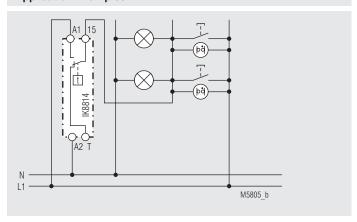
Output: 1 NO contact, delayed

Nominal voltage U_N: AC 230 V 1 ... 20 min Time range: Width: 17.5 mm

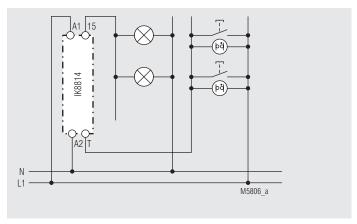
Ordering Example



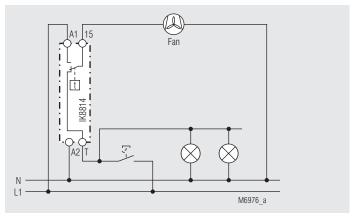
Application Examples



3-wire circuit (cannot be reswitched)



4-wire circuit (cannot be reswitched)



Time-lag circuit