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


## Approvals and Markings

## C $\epsilon$

## Applications

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


## Function

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.

## Indicators

LED:
On, when the output relay is activated

## Technical Data

## Timing circuit

Timing ranges: Repeat accuracy:
$0.5 \ldots 10 \mathrm{~min}, 1 \ldots 20 \mathrm{~min}, 3 \ldots 60 \mathrm{~min}$ $\pm 2 \%$ of the full scale value

Input

| Nominal voltage $\mathrm{U}_{\mathrm{N}}:$ | AC 230 V |
| :--- | :--- |
| Voltage range: | $0.8 \ldots 1.1 \mathrm{U}_{\mathrm{N}}$ |
| Nominal consumption | 5 VA |
| Apparent power: <br> Actual power: | 0.3 W |
| Nominal frequency: <br> Glow lamps <br> parallel to the pushbutton: | $50 / 60 \mathrm{~Hz}$ |

## Output

## Contacts

K 8814.41:
Thermal current $\mathrm{I}_{\text {th }}$ :

## Switching capacity

 with lamp loadFluorescent lamp load Duo-switching:

Glow lamp load:
Short circuit strength
max. fuse rating:
Mechanical life:

| Operating mode: | Continuous operation |
| :---: | :---: |
| Temperature range |  |
| Operation: | $-20 \ldots+45^{\circ} \mathrm{C}$ |
| Storage: | $-20 \ldots+6{ }^{\circ} \mathrm{C}$ |
| Altitude: | $\leq 2000 \mathrm{~m}$ |
| Clearance and creepage distances |  |
| Rated impulse voltage / pollution degree: | $4 \mathrm{kV} / 2$ IEC 60664-1 |
| EMC |  |
| Electrostatic discharge: | 8 kV (air) IEC/EN 61000-4-2 |
| HF-irradiation: | $10 \mathrm{~V} / \mathrm{m}$ 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 |  |
| Housing: | IP 40 IEC/EN 60529 |
| Terminals: | IP 20 IEC/EN 60529 |
| Vibration resistance: | Amplitude 0.35 mm IEC/EN 60068-2-6 frequency 10 ... 55 Hz |
| Climate resistance: | $20 / 045$ / 04 IEC/EN 60068-1 |
| Housing: | Thermoplastic with Vo behaviour according to UL subject 94 |
| Wire connection | DIN 46228-1/-2/-3/-4 |
| Cross section: | $2 \times 0.6 \ldots 2.5 \mathrm{~mm}^{2}$ solid or $2 \times 0.28 \ldots 1.5 \mathrm{~mm}^{2}$ 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 |
| Fixing torque: | 0.8 Nm |
| Mounting: | DIN rail IEC/EN 60715 |
| Weight | 70 g |
| Dimensions |  |
| Width x height x depth: | $17.5 \times 89 \times 58 \mathrm{~mm}$ |

## Standard Type

IK 8814.41 AC 230 V $50 / 60 \mathrm{~Hz} \quad 1 \ldots 20 \mathrm{~min}$
Article number: 0029189

- Output: 1 NO contact, delayed
- Nominal voltage $U_{N}$ : AC 230 V
- Time range: $\quad 1 \ldots 20 \mathrm{~min}$

Width: 17.5 mm


3-wire circuit (cannot be reswitched)


4-wire circuit (cannot be reswitched)


Time-lag circuit

