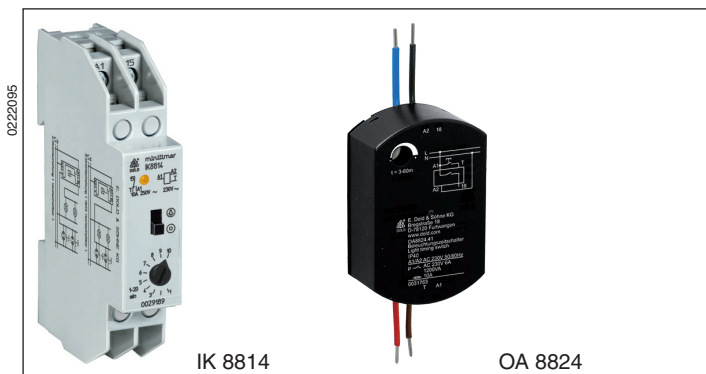


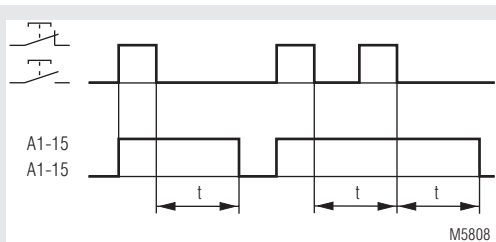
## MINITIMER Lighting Timing Switch IK 8814 / OA 8824

Translation  
of the original instructions

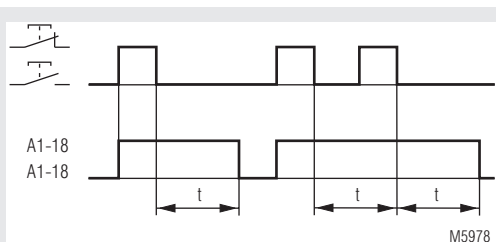


- According to EN 60669-1, EN 60669-2-1
- Reswitching possible
- Operating times between 0.5 ... 60 min., as required
- IK 8814 with permanent light switch and LED indicator for contact position
- IK 8814 for installation in rows, width 17.5 mm  
OA 8824 for installation in flush-mounted boxes

### Function Diagrams

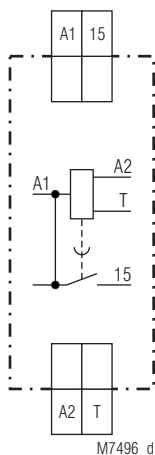


IK 8814

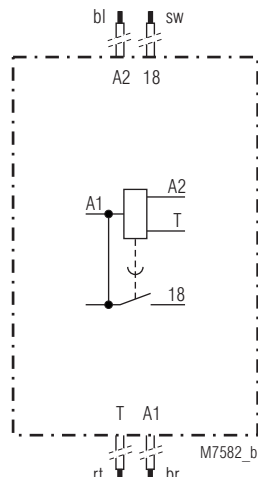


OA 8824

### Circuit Diagrams



IK 8814.41



OA 8824.41

### Approvals and Markings



### Applications

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

### Function

IK 8814 and OA 8824 - that are controlled by a static timing element - can be used as automatic staircase light switches, as delayed-release timing relays or as time-lag switches. While IK 8814 is designed to be mounted on a top hat rail, OA 8824 is suitable for installation in flush-mounted boxes (diameter 60 mm, depth 40 mm).

The operating time can be set using a screwdriver.

When the unit is being used as an automatic staircase light switch, it is activated via a 3- or 4-wire connection by pressing a pushbutton (only a 4-wire connection in the case of OA 8824). The pushbutton and the equipment concerned have to be connected to the same phase in this context.

When a pushbutton is pressed, the contact moves to its active position and the set time starts. The active position is indicated by an LED on IK 8814. The lighting timing switch can be reswitched at any time during the operating period by pressing the pushbutton again. If this is done, the time delay starts again from the beginning without any interruption (in the case of 4-wire circuits).

IK 8814 can be switched to permanent lighting by moving a slide switch that is located on the front of the unit.

If they are wired appropriately (see the connection diagrams), IK 8814 and OA 8824 can also be used as a time-lag relay for a second consumer (e.g. ventilator). When the first consumer (e.g. a light) is switched on, the contacts move to their active position, as a result of which the second consumer is switched on as well.

When the first consumer has been switched off, the contact remains in its active position for the duration of the set time delay.

### Connection Terminals

Terminal designation	Signal description
A1	L
A2	N
T	Control input for buttons
15, 18	Contact-output delayed

## Indicators

IK 8814  
LED: On, when the output relay is activated

## Notes

Switch connection boxes (60 cm deep) are suitable for installing OA 8824 can be purchased, for example, from Messrs Kaiser, D - 5885 Schalksmühle / Germany (order no. 1055-02). OA 8824 is also available on request complete with installation pushbutton and installation frame for switch connection boxes (diameter 60 mm, depth 40 mm).

## Technical Data

### Timing circuit

**Timing ranges:** 0.5 ... 10 min, 1 ... 20 min, 3 ... 60 min  
**Repeat accuracy:** ± 2 % of the full scale value

### Input

**Nominal voltage  $U_N$ :** AC 230 V  
**Voltage range:** 0.8 ... 1.1  $U_N$   
**Nominal consumption**  
Apparent power: IK 8814: 5 VA  
OA 8824: 3 VA  
Actual power: 0.3 W  
**Nominal frequency:** 50 / 60 Hz  
**Glow lamps parallel to the pushbutton**  
IK 8814: 40 mA  
OA 8824: 10 mA

### Output

**Contacts**  
IK 8814.41: 1 NO contact, delayed  
OA 8824.41: 1 NO contact, delayed

**Thermal current  $I_{th}$**   
IK 8814: 10 A  
OA 8824: 4 A

### Switching capacity with lamp load

Fluorescent lamp load  
Duo-switching  
IK 8814: 20 lamps with 58 W  
5 x 10<sup>4</sup> switching cycles  
OA 8824: 6 lamps with 58 W each  
5 x 10<sup>4</sup> switching cycles

Glow lamp load  
IK 8814: 1200 W  
OA 8824: 600 W

### Short circuit strength max. fuse rating

IK 8814: 10 A gG / gL IEC/EN 60947-5-1  
OA 8824: 4 A gG / gL IEC/EN 60947-5-1

**Mechanical life:** > 10<sup>6</sup> switching cycles

## General Data

**Operating mode:** Continuous operation

### Temperature range

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

### Clearance and creepage distances

Rated impulse voltage / pollution degree: 4 kV / 2 IEC 60664-1

### 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

## Technical Data

### Degree of protection

IK 8814: Housing: IP 40 IEC/EN 60529  
Terminals: IP 20 IEC/EN 60529

OA 8824: Housing: IP 40 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 V0 behaviour according to UL subject 94

### Wire connection

**IK 8814**  
Cross section: 2 x 0,6 ... 2,5 mm<sup>2</sup> solid or 2 x 0,28 ... 1,5 mm<sup>2</sup> 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:

IK 8814: DIN rail IEC/EN 60715

### Weight

IK 8814: 70 g  
OA 8824: 31 g

## Dimensions

### Width x height x depth

IK 8814: 17.5 x 89 x 58 mm  
OA 8824: 40 x 58.5 x 18 mm

## Standard Type

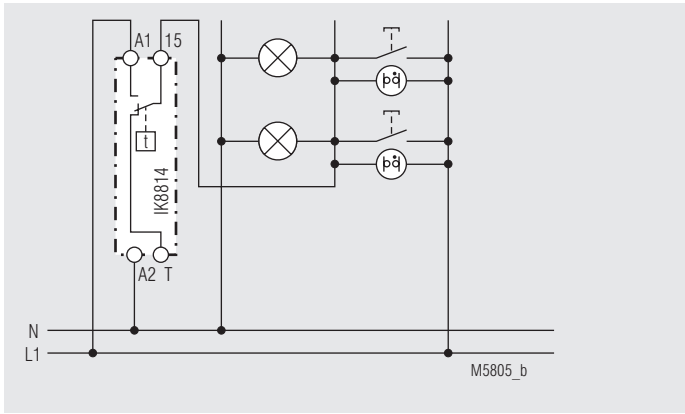
IK 8814.41 AC 230 V 50 / 60 Hz 1 ... 20 min.  
Article number: 0029189  
• Output: 1 NO contact, delayed  
• Nominal voltage  $U_N$ : AC 230 V  
• Time range: 1 ... 20 min  
• Width: 17.5 mm

## Ordering Example

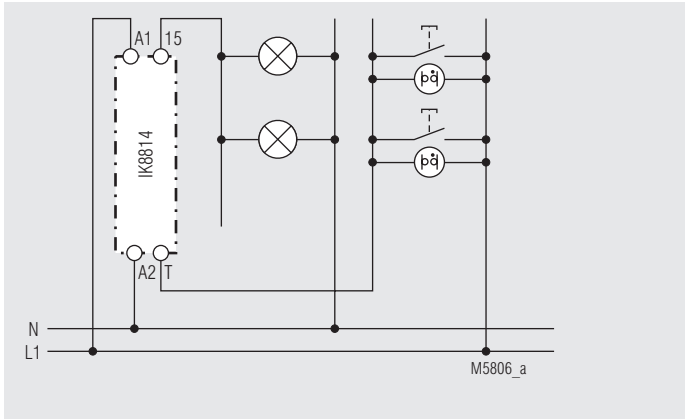
IK 8814 .41 AC 230 V 50 / 60 Hz 1 ... 20 min

Timing range  
Nominal frequency  
Nominal voltage  
Contacts  
Type

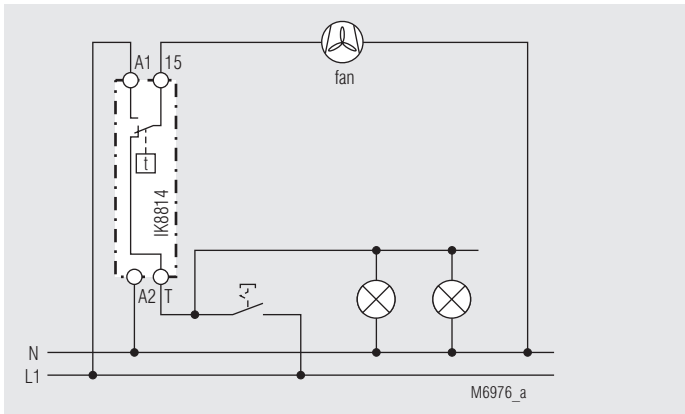
**Application Examples**



IK 8814 3-wire circuit (cannot be reswitched)

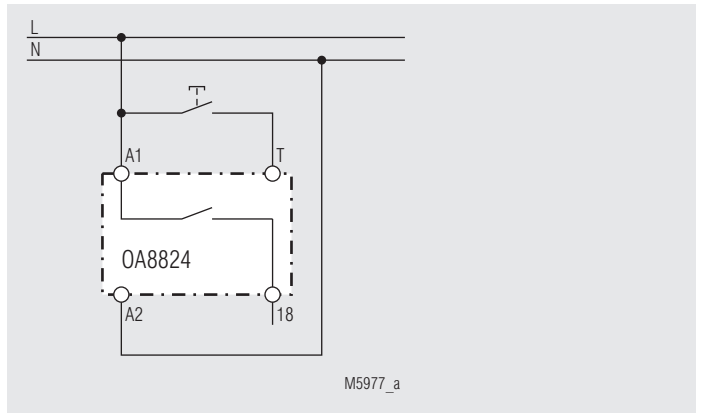


IK 8814 4-wire circuit (cannot be reswitched)

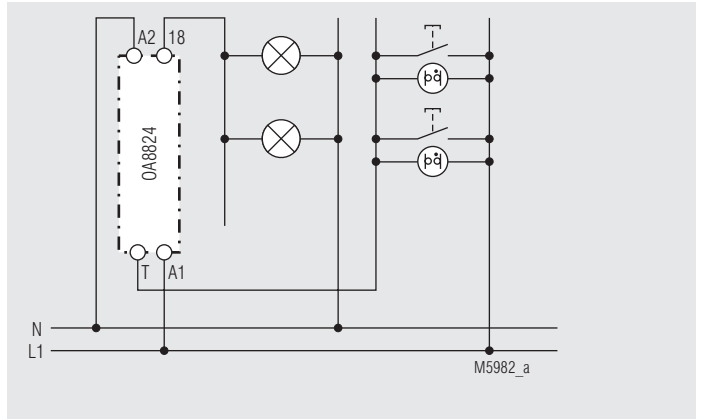


IK 8814 Time-lag circuit

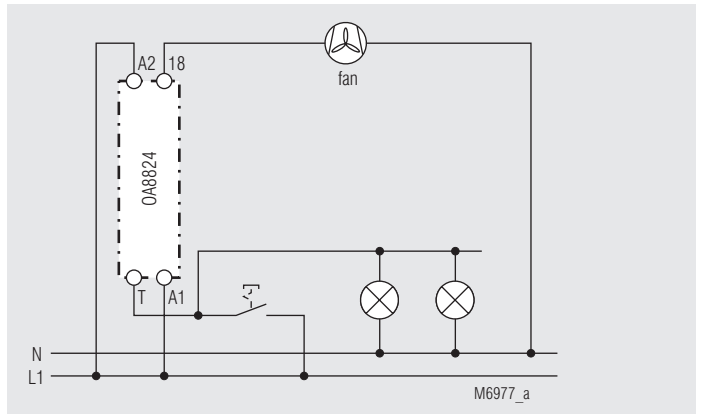
**Application Examples**



OA 8824



OA 8824 4-wire circuit (cannot be reswitched)



OA 8824 Time-lag circuit

