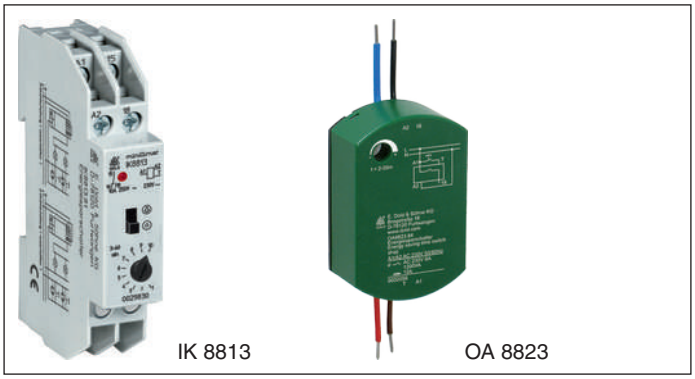
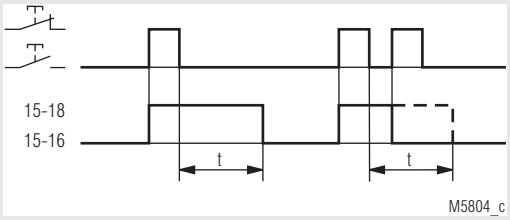
MINITIMER
Energy-Saving Time Switch
IK 8813 / OA 8823

0222094

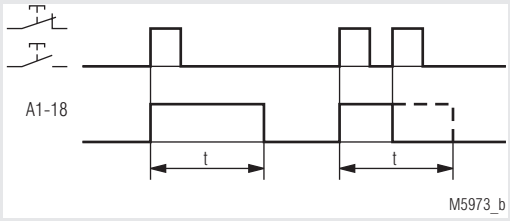


- According to EN 60 669-1, EN 60 669-2-1
- Can be switched off before the time expires
- Operating times between 0.5 ... 60 min., as required
- IK 8813 with permanent light switch and LED indicator for contact position
- IK 8813 for installation in rows, width 17.5 mm
- OA 8823 for installation in flush-mounted boxes

Function Diagram

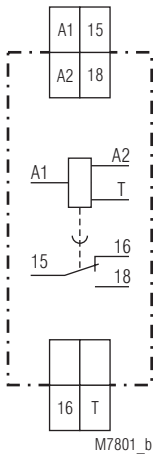


IK 8813

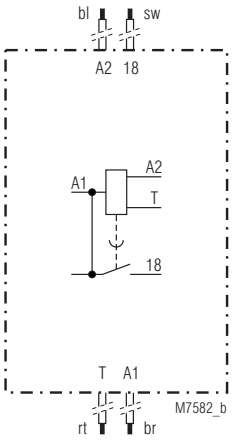


OA 8823

Circuit Diagrams



IK 8813.81



OA 8823.84

Approvals and Markings

CE

Applications

Controlled switching-off of lights (such as staircase, courtyard, garden, garage, attic and cellar lights) as well as ventilators, driers and all electronic consumers in general that experience has shown are rarely switched off again immediately after they have been used.

Function

The energy-saving switches IK 8813 and OA 8823 are controlled by an electronic timing element. While IK 8813 is designed to be mounted on a top hat rail, OA 8823 is suitable for installation in flush-mounted boxes. The operating time can be set using a screwdriver. The switch can be activated via a 3- or 4-wire connection by pressing a pushbutton (only a 4-wire connection in the case of OA 8823). The pushbutton and the equipment concerned have to be connected to the same phase in this context.

Indicators

IK 8813

yellow LED:	on, when the output relay is activated (contact 15 - 18 is closed)

Notes

Switch connection boxes (60 cm deep) are suitable for installing OA 8823 can be purchased, for example, from Messrs Kaiser, D - 5885 Schalksmühle / Germany (order no. 1055-02). OA 8823 is also available on request complete with installation pushbutton and installation frame for switch connection boxes (diameter 60 mm, depth 40 mm).

Connection Terminals

Terminal designation	Signal designation
A1	L
A2	N
T	Control input for buttons
15, 16, 18	Contact-output delayed

All technical data in this list relate to the state at the moment of edition. We reserve the right for technical improvements and changes at any time.

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 8813: 5 VA
	OA 8823: 3 VA
actual power:	0.3 W
Nominal frequency:	50 / 60 Hz
Glow lamps parallel to the pushbutton:	10 mA

Output

Contacts	
IK 8813.81:	1 changeover contact, delayed
OA 8823.84:	1 NO contact, delayed
Thermal current I_{th}	
IK 8813:	10 A
OA 8823:	4 A
Switching capacity with lamp load:	
Fluorescent lamp load Duo-switching (series compensated)	
IK 8813:	20 lamps with 58 W each 5 x 10^4 switching cycles
OA 8823:	6 lamps with 58 W each 5 x 10^4 switching cycles
Glow lamp load	
IK 8813:	1200 W
OA 8823:	600 W
Short circuit strength max. fuse rating	
IK 8813:	10 A gG / gL IEC/EN 60 947-5-1
OA 8823:	4 A gG / gL IEC/EN 60 947-5-1
Mechanical life:	> 10^6 switching cycles

General Data

Operating mode:	Continuous operation
Temperature range	
Operation:	- 20 ... + 45 °C
Storage:	- 20 ... + 60 °C
Altitude:	< 2,000 m
Clearance and creepage distances	
rated impulse voltage / pollution degree:	4 kV / 2 IEC 60 664-1
EMC	
Electrostatic discharge:	8 kV (air) IEC/EN 61 000-4-2
HF-irradiation:	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:	2 kV IEC/EN 61 000-4-5
between wire and ground:	4 kV IEC/EN 61 000-4-5
Interference suppression:	Limit value class B EN 55 011
Degree of protection	
IK 8813:	
Housing:	IP 40 IEC/EN 60 529
Terminals:	IP 20 IEC/EN 60 529
OA 8823:	
Housing:	IP 40 IEC/EN 60 529
Housing:	Thermoplastic with V0 behaviour according to UL subject 94
Vibration resistance:	Amplitude 0.35 mm, frequenzy 10 ... 55 Hz IEC/EN 60 068-2-6
Climate resistance:	20 / 045 / 04 IEC/EN 60 068-1

Technical Data

Terminal designation:	EN 50 005
Wire connection	DIN 46 228-1/-2/-3/-4
IK 8813	
Cross section:	2 x 0,6 ... 2,5 mm^2 solid or 2 x 0,28 ... 1,5 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 60 999-1
Fixing torque:	0.8 Nm
Mounting:	
IK 8813:	DIN rail IEC/EN 60 715
Weight	
IK 8813:	75 g
OA 8823:	31 g

Dimensions

Width x height x depth	
IK 8813:	17.5 x 89 x 58 mm
OA 8823:	40 x 58.5 x 18 mm

Standard Type

IK 8813.81 AC 230 V 50 / 60 Hz 3 ... 60 min

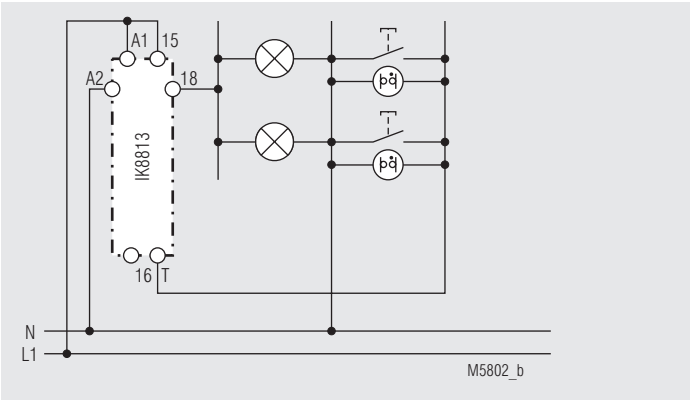
Article number:	0029830
• Output:	1 changeover contact, delayed
• Nominal voltage U_N:	AC 230 V
• Time range:	3 ... 60 min
• Width:	17.5 mm

Ordering Example

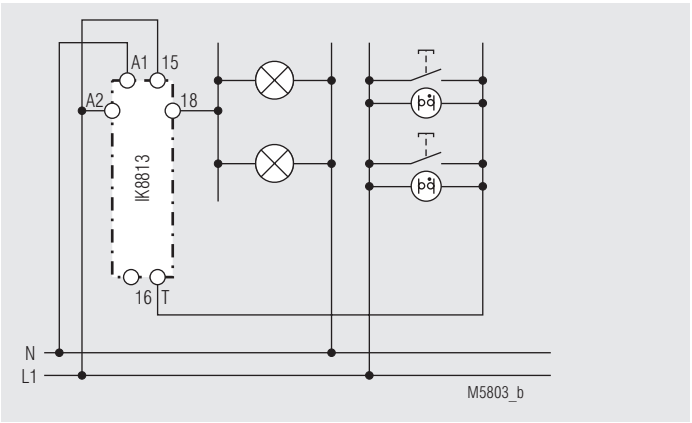
IK 8813 .81 AC 230 V 50 / 60 Hz 1 ... 20 min

- Timing range
- Nominal frequency
- Nominal voltage
- Contacts
- Type

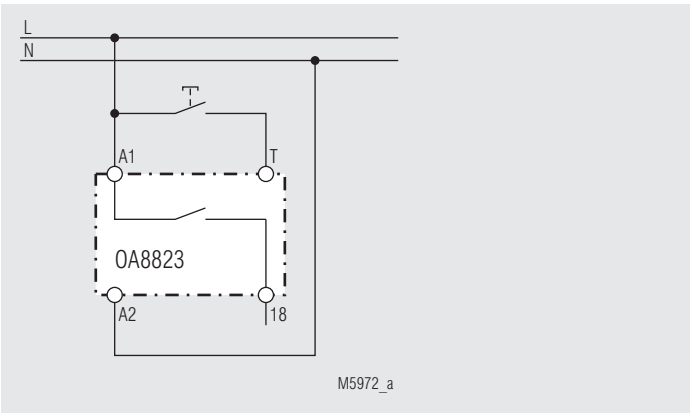
Application Examples



IK 8813
3-wire circuit (can be switched off)



IK 8813
4-wire circuit (can be switched off)



OA 8823