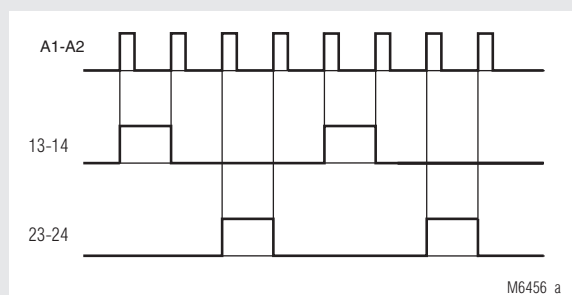


## Stepping Switch IK 8830



- According to IEC/EN 60 669
- Switching function 1 - 0 - 2 - 0
- Pushbutton for manual actuation of the contacts
- 2 NO contacts
- Width 17.5 mm

### Function Diagram



### Approvals and Marking



### Application

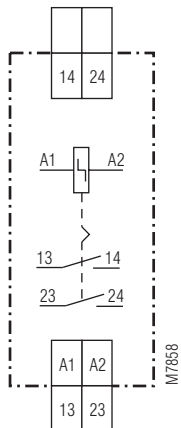
- Switching blind motors to move blinds up and down
- Switching groups of lamps on and off progressively

### Function

The blind drive with the switching function 1 - 0 - 2 - 0 is controlled via a pushbutton.

- 1 = Contact 13 - 14 closed
- 2 = Contact 23 - 24 closed

### Circuit Diagram



IK 8830.02

### Technical Data

#### Input

<b>Nominal voltage <math>U_N</math>:</b>	AC 24, 230 V (other voltages available on request)
<b>Voltage range:</b>	0.9 ... 1.1 $U_N$
<b>Nominal consumption:</b>	apparent power 5.2 VA actual power 4.2 W
<b>Nominal frequency:</b>	50 or 60 Hz
<b>Frequency range:</b>	± 5 %
<b>Nominal frequency: Glow lamps parallel to the pushbutton:</b>	max. 8 pieces à 0.5 mA
<b>Max. interference voltage at the inputs:</b>	2.5 kV
<b>Min. switching-on time:</b>	50 ms

#### Output

<b>Contacts</b>	2 NO contacts
<b>IK 8830.02:</b>	2 NO contacts
<b>Nominal output voltage:</b>	AC 400 V
<b>Fluorescent lamp load:</b>	20 x 58 W 5 x 10 <sup>4</sup> switching cycles (duo switching)
<b>Bulb load:</b>	1500 W, 5 x 10 <sup>4</sup> switching cycles
<b>Thermal current <math>I_{th}</math>:</b>	16 A
<b>Switching frequency:</b>	1 000 / h
<b>Short circuit strength</b>	
<b>max. fuse rating:</b>	16 AgL IEC/EN 60 947-5-1
<b>Mechanical life:</b>	3 x 10 <sup>6</sup> switching cycles

## Technical Data

### General Data

<b>Nominal operating mode:</b>	Impulse operation in case of failure 100 to duty cycle possible	
<b>Temperature range:</b>	- 20 ... + 45°C	
<b>Clearance and creepage distances</b>		
rated impuls voltage/ pollution degree:	4 kV / 2	IEC 60 664-1
<b>EMC</b>		
Electrostatic discharge:	6 kV (contact)	IEC/EN 61 000-4-2
Fast transients:	4 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:	2 kV	IEC/EN 61 000-4-5
HF-wire guided:	10 V	IEC/EN 61 000-4-6
<b>Degree of protection</b>		
Housing:	IP 30	IEC/EN 60 529
Terminals:	IP 20	IEC/EN 60 529
<b>Housing:</b>	Thermoplastic with V0 behaviour according to UL subject 94	
<b>Vibration resistance:</b>	Amplitude 0.35 mm frequency 10 ... 55 Hz IEC/EN 60 068-2-6	
<b>Climate resistance:</b>	Humid heat IEC/EN 60 068-2-30	
<b>Terminal designation:</b>	EN 50 005	
<b>Wire connection:</b>	2 x 2.5 mm <sup>2</sup> solid or 2 x 1.5 mm <sup>2</sup> stranded ferruled DIN 46 228-1/-2/-3/-4 2 x 1 mm <sup>2</sup> stranded ferruled DIN 46 228-1/-2/-3/-4	
<b>Wire fixing:</b>	Terminals with self-lifting clamping piece IEC/EN 60 999-1	
<b>Mounting:</b>	DIN rail IEC/EN 60 715	
<b>Weight:</b>	100 g	

### Dimensions

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

### Standard Type

IK 8830.02 AC 230 V 50 Hz		
Article number:	0046625	stock item
• Output:	2 NO contacts	
• Nominal voltage $U_N$ :	AC 230 V	
• Width:	17.5 mm	

### Ordering Example

IK 8830	.02	AC 230V	50Hz	
				Nominal frequency
				Nominal voltage
				Contacts
				Type

### Connection example

