# **Remote Switch** IK 8800, IL 8800

**Circuit Diagram** 

A1 | A2

IL 8800.13

13 23 33

# **Translation** of the original instructions



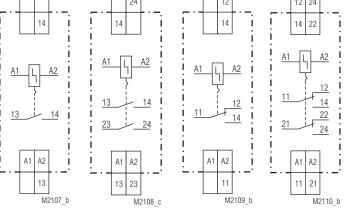


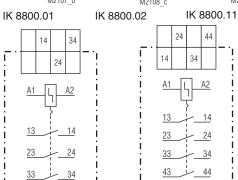
# Your Advantages

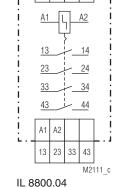
- Optionally with up to max. 4 changeover contacts
- Low energy consumption by impulse operation
- Small amount of wiring required at installations with serval local push buttons

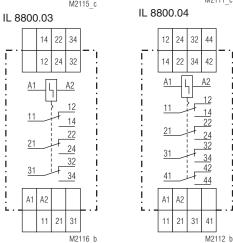
## **Features**

- · According to IEC/EN 60669
- Impulse operation
- Pushbutton for manual actuation of the contacts
- Operating position display
- Optionally contacts with up to a maximum of 4 changeover contacts
- Width 17.5 mm or 35 mm









# **Approvals and Markings**



## **Function**

The contacts are actuated with every current pulse and they stay in the operating position they have adopted in each case until the next pulse occurs. It is possible to actuate the contacts manually by pressing a pushbutton provided on the unit. The contact position is shown by an indicator. The units can be installed in rows close next to each other for pulse operation. The gap between the relays is 7 mm when they are on permanently.

## Indicators

IK 8800.12

Is visible when output contacts are Red indicator:

activated

## **Connection Terminals**

Terminal designation	Signal description	
A1	Control signal L resp. DC+	
A2	Neutral N resp. DC-	
13/14, 23/24, 33/34, 43/44	NO contact LOAD	
11/12/14, 21/22/24, 31/32/34, 41/42/44	C/O LOAD	

IL 8800.14

### **Technical Data**

### Input

AC 8, 24, 42, 230 V Nominal voltage U,:

DC 12, 24 V,

other voltages on request

0.9 ... 1.1 U<sub>N</sub> Voltage range:

Nominal consumption: 4 contacts 1.2 contacts Apparent power: 5.2 VA 10.4 VA Actual power: 4.2 W 8.4 W

Nominal frequency: 50 or 60 Hz Frequency range: ±5%

Glow lamp parallel

to the pushbutton: Max. 8 lamps à 0.5 mA

(corresponds to 4 mA residual current)

Minimum on time > 50 ms

# Output

**Contacts** IK 8800.01: 1 NO contact 2 NO contacts IK 8800.02: IL 8800.03: 3 NO contacts IL 8800.04: 4 NO contacts IK 8800.11: 1 changeover contact IK 8800.12: 2 changeover contacts 3 changeover contacts IL 8800.13: IL 8800.14: 4 changeover contacts

Operate time: < 30 ms Nominal output voltage: AC 230 V / 400 V Electrical life

with resistive load AC 230 V

and 500 switching cycles / h:

 $6~A~150~x~10^4$  switching cycles  $10~A~75~x~10^4$  switching cycles 16 A 10 x 10<sup>4</sup> switching cycles

Switching capacity with lamp load:

Fluorescent lamp load: With electronic series reactor:

20 lamps with 58 W / contact each 58 lamps with 18 W / contact each

Duo circuit

2 x 20 lamps with 58 W / contact each (series compensated):

5 x 10<sup>4</sup> switching cycles

The starting current levels can be very high in parallel compensation configurations and when electronic ballast units are

being used.

Automatic fuses must be incorporated

in the circuit if necessary.

1000 switching cycles / h

2000 W

5 x 104 switching cycles

Nominal switching-off

capacity:

Bulb load:

cos. φ 1 ... 0.7, AC 230 V: 16 A Thermal current I,: 16 A

Permissible switching

frequency: Short circuit strength

max. fuse rating: 16 A gG / gL IEC/EN 60947-5-1

Mechanical life: 3 x 106 switching cycles

**General Data** 

Operating mode: Pulse operation

In case of failure 100 % to duty cycle

possible

Temperature range

- 20 ... + 45 °C Operation: Storage: - 25 ... + 55 °C ≤ 2000 m Altitude:

Clearance and creepage

distances

Rated impulse voltage /

pollution degree: 4 kV / 2 IEC 60664-1

EMC

Electrostatic discharge: IEC/EN 61000-4-2 8 kV (air) HF irradiation: 80 MHz ... 2.7 GHz: 10 V / m IEC/EN 61000-4-3 Fast transients: IEC/EN 61000-4-4 4 kV

Surge voltages

between

IEC/EN 61000-4-5 wires for power supply: 1 kV Between wire and ground: 2 kV IEC/EN 61000-4-5 HF wire guided: 10 V IEC/EN 61000-4-6 Interference suppression: Limit value class B FN 55011

**Technical Data** 

Degree of protection:

IP 30 IP 20 IEC/EN 60529 Housing: Terminals: IEC/EN 60529

Housing: Thermoplastic with V0 behaviour

according to UL subject 94

Vibration resistance: Amplitude 0.35 mm

frequency 10 ... 55 Hz IEC/EN 60068-2-6 Humid heat IEC/EN 60068-2-30

Climate resistance: Terminal designation: EN 50005

Wire connection: 2 x 2.5 mm<sup>2</sup> solid or

2 x 1.5 mm<sup>2</sup> stranded ferruled DIN 46228-1/-2/-3/-4 or 2 x 1 mm<sup>2</sup> stranded ferruled DIN 46228-1/-2/-3/-4

Flat terminals with self-lifting Wire fixing: IEC/EN 60999-1

clamping piece 0.8 Nm Fixing torque:

Mounting: DIN rail IEC/EN 60715

Weight

IK 8800: 110 g IL 8800: 210 g

## **Dimensions**

Width x height x depth

IK 8800: 17.5 x 89 x 58 mm IL 8800: 35 x 89 x 58 mm

# **Standard Type**

IK 8800.01 AC 230 V 50 Hz

Article number: 0009273 Output: 1 NO contact Nominal voltage U<sub>N</sub>: AC 230 V Width: 17.5 mm

# **Variants**

I\_ 8800.\_\_/001: For switching small loads from min. 10 mVA / mW to

max. 6 VA / W at 2 ... 60 V / 2 ... 300 mA.

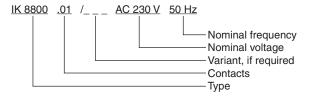
The contacts also permit the max. switching current. However, as the gold plating is burnt off at this current, the device is no longer suitable for switching

small loads.

IK 8800.01/008: 3 mm contact spacing (only possible for one

NO contact)

# **Ordering Example for Variant**



2 02.09.24 en / 896A



# **Safety Notes**



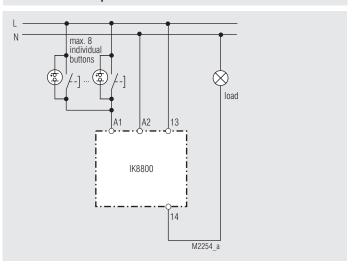
Dangerous voltage.

Electric shock will result in death or serious injury.

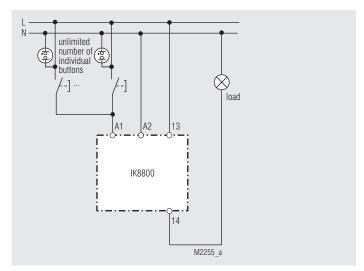
Disconnect all power supplies before servicing equipment.

- Faults must only be removed when the relay is disconnected.
- The device may only be installed and put into operation by experts who are familiar with this technical documentation and the applicable health and safety and accident prevention regulations.
- The user has to make sure that the device and corresponding components are installed and wired according to the local rules and law (TUEV, VDE, Health and safety).
- Installation work must only be done when power is disconnected

# **Connection Examples**



This circuit can be used with up to 8 illuminated pushbuttons.



With this circuit it is possible to connect as many illuminated pushbuttons as required to a remote switch.

When low voltages are being used, the control circuit has to be disconnected from the mains system by means of a transformer. It is only possible to illuminate the pushbuttons here by providing a third control wire.

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