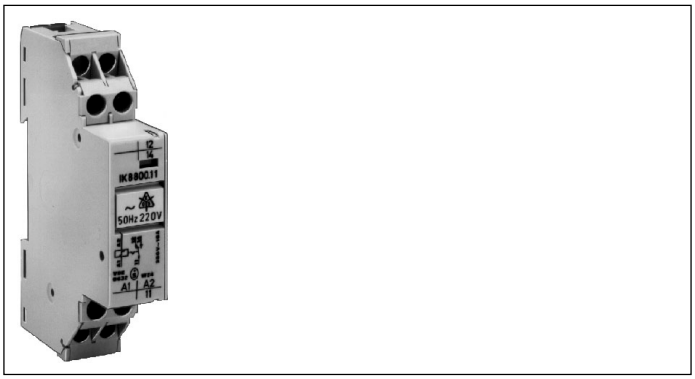
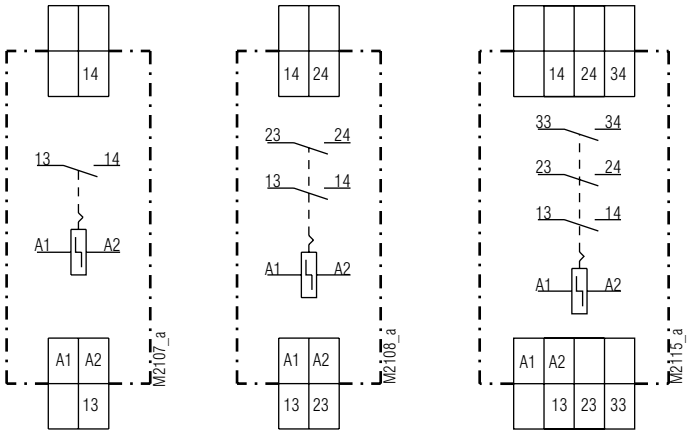
Remote switch IK 8800, IL 8800

0222086

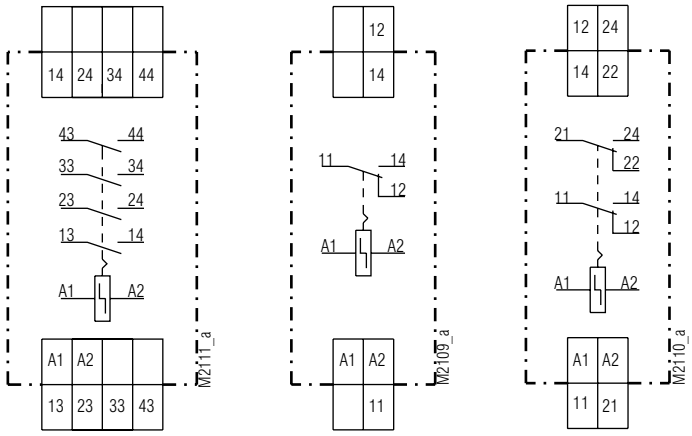


- According to VDE 0632
- Optionally contacts with up to a maximum of 4 changeover contacts
- Pushbutton for manual actuation of the contacts
- Operating position display
- Width 17,5 mm or 35 mm

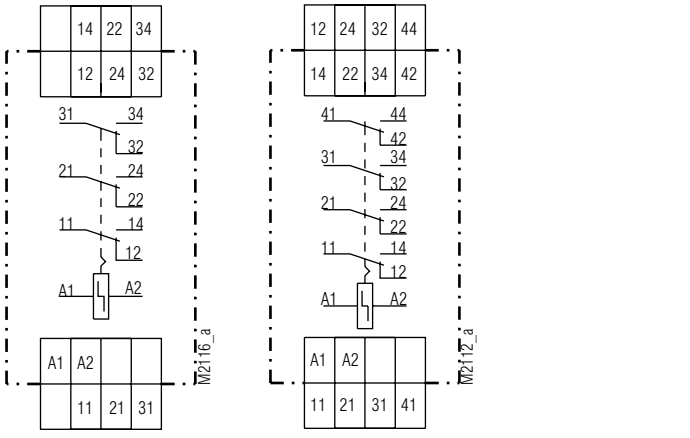
Circuit diagram



IK 8800.01 IK 8800.02 IL 8800.03



IL 8800.04 IK 8800.11 IK 8800.12



IL 8800.13 IL 8800.14

Approvals and marking

CE GL Deutschland

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

red indicator: is visible when output contacts are activated

Technical data

Input

Nominal voltage U_N:	AC 8, 24, 42, 230 V DC 12, 24 V, other voltages on request	
Voltage range:	0,9 ... 1,1 U_N	
Nominal consumption:	1,2 contacts	4 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
IK 8800.02:	2 NO contacts
IL 8800.03:	3 NO contacts
IL 8800.04:	4 NO contacts
IK 8800.11:	1 changeover contact
IK 8800.12:	2 changeover contacts
IL 8800.13:	3 changeover contacts
IK 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 10^4 switching cycles

Technical data

Switching capacity with lamp load:

fluorescent lamp load:	20 lamps with 58 W / contact each	
duo circuit (series compensated):	2 x 20 lamps with 58 W / contact each 5 x 10^4 switching cycles	
bulb load:	2 000 W 5 x 10^4 switching cycles	
Nominal switching-off capacity:		
cos. φ 1 ... 0,7, AC 230 V:	16 A	
Thermal current I_{th}:	16 A	
Permissible switching frequency:	1 000 switching cycles / h	
Short circuit strength max. fuse rating:	16 A gL	EN 60 947-5-1
Mechanical life:	3 x 10^6 switching cycles	

General data

Operating mode:	Pulse operation	
Temperature range:	– 20 ... + 45°C	
Clearance and creepage distances		
overvoltage category / contamination level:	4 kV / 2	IEC 60 664-1
EMC		
Electrostatic discharge:	6 kV (contact)	EN 61 000-4-2
Fast transients:	4 kV	EN 61 000-4-4
Surge voltages between		
wires for power supply:	2 kV	EN 61 000-4-5
between wire and ground:	4 kV	EN 61 000-4-5
HF wire guided:	10 V	En 61 000-4-6
Degree of protection:	Housing: IP 30	EN 60 529
	Terminals: IP 20	EN 60 529
Housing:	Thermoplastic with V0 behaviour according to UL subject 94	
Vibration resistance:	Amplitude 0,35 mm frequency 10 ... 55 Hz	EN 60 068-2-6
Climate resistance:	Humid heat	IEC 68-2-30
Terminal designation:	EN 50 005	
Wire connection:	2 x 2,5 mm² solid or 2 x 1,5 mm² stranded ferruled DIN 46 228-1/-2/-3 or 2 x 1 mm² stranded ferruled DIN 46 228-4	
Wire fixing:	Flat terminals with self-lifting clamping piece	EN 60 999
Mounting:	DIN rail	EN 50 022
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

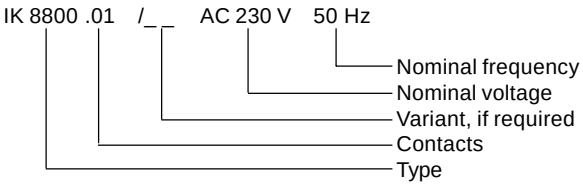
IK 8800.01 AC 230 V 50/60 Hz

Article number:	0009273	stock item
• Output:	1 NO contact	
• Nominal voltage U_N:	AC 230 V	
• Width:	17,5 mm	

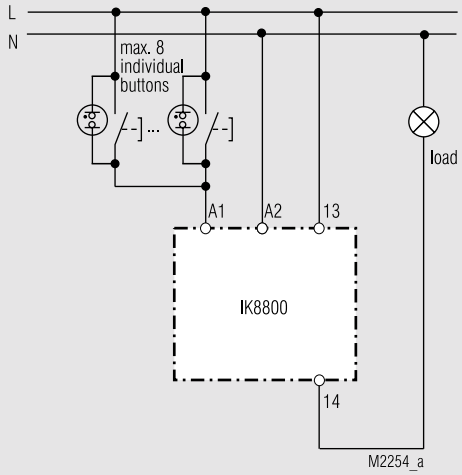
Variant

IK 8800._ _/66: GL-approval

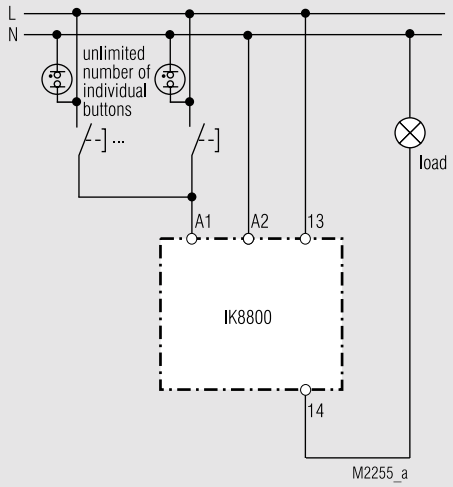
Ordering example for Variant



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.

Specifiaction for tender for IK 8800

Remote switch according to VDE 0632 to be built in consumer units, 1 NO contact, pushbutton for manual actuation of the contacts and operating position display.
Width 17,5 mm.
Type IK 8800.01
Manufactured by: E. DOLD & SÖHNE KG

Remote switch according to VDE 0632 to be built in consumer units, 2 NO contacts, pushbutton for manual actuation of the contacts and operating position display.
Width 17,5 mm.
Type IK 8800.02
Manufactured by: E. DOLD & SÖHNE KG

Remote switch according to VDE 0632 to be built in consumer units, 4 NO contacts, pushbutton for manual actuation of the contacts and operating position display.
Width 35 mm.
Type IK 8800.04
Manufactured by: E. DOLD & SÖHNE KG

Remote switch according to VDE 0632 to be built in consumer units, 1 changeover contact, pushbutton for manual actuation of the contacts and operating position display.
Width 17,5 mm.
Type IK 8800.11
Manufactured by: E. DOLD & SÖHNE KG

Remote switch according to VDE 0632 to be built in consumer units, 2 changeover contacts, pushbutton for manual actuation of the contacts and operating position display.
Width 17,5 mm.
Type IK 8800.12
Manufactured by: E. DOLD & SÖHNE KG

Remote switch according to VDE 0632 to be built in consumer units, 4 changeover contacts, pushbutton for manual actuation of the contacts and operating position display.
Width 17,5 mm.
Type IK 8800.14
Manufactured by: E. DOLD & SÖHNE KG