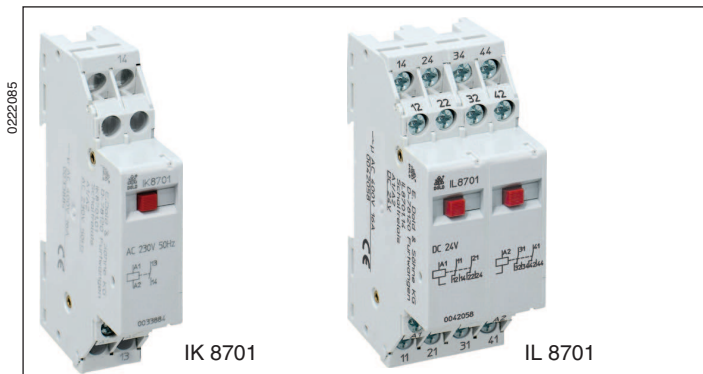
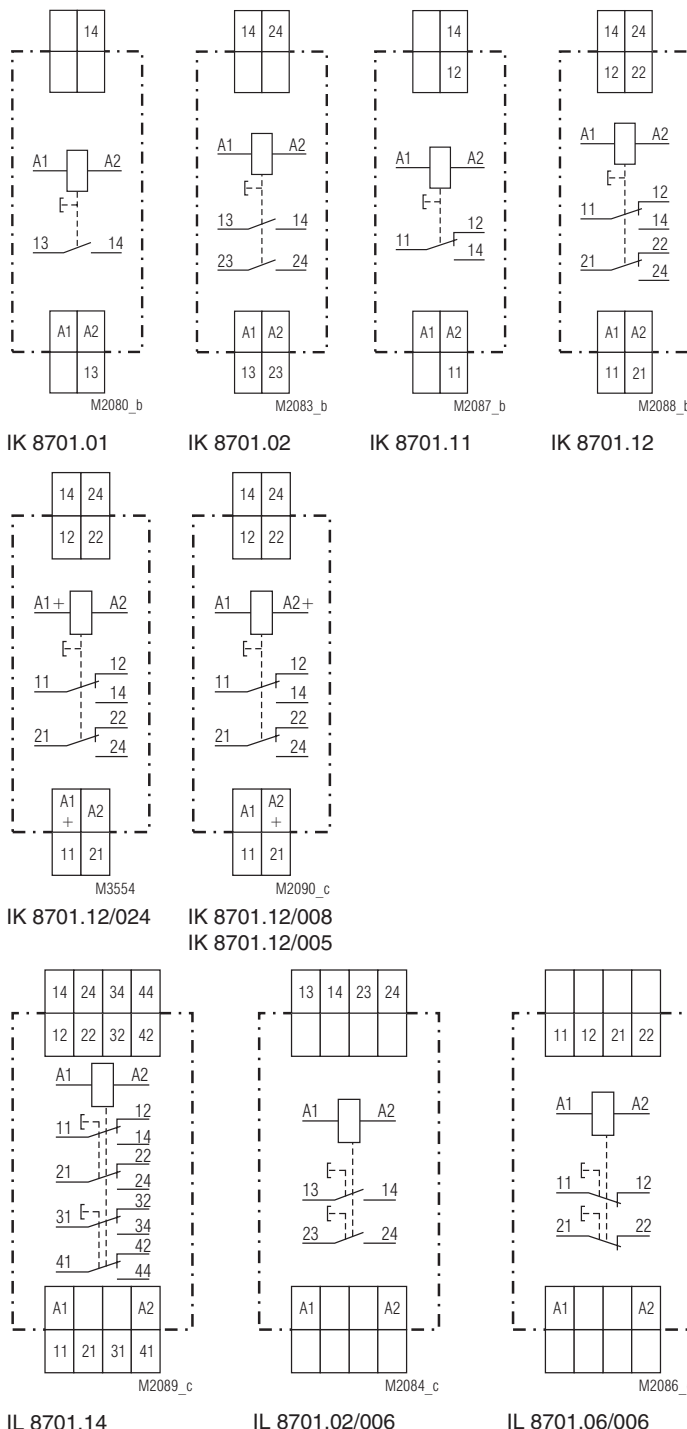


Switching Relay Input-Output Interface Relay IK 8701, IL 8701, IN 8701



- According to IEC/EN 61 810-1
- Optionally contacts with up to a maximum 4 changeover contacts
- High thermal current I_{th}
- Pushbutton for manual actuation of the contact
- Operating position display
- Optionally without manual actuation and an operating position display
- Optionally for 2-wire initiator activation
- Optionally for switching low loads
- Optionally for switching lamps with parallel compensation (e.g. HQ lamps)
- Optionally for switching large inductive direct current loads
- Optionally with a recovery diode (only DC devices)
- Optionally with reliable release voltage of AC 120 V
- IK 8701: width 17.5 mm
- IL 8701: width 35 mm
- IN 8701: width 52.5 mm

Schaltbilder



Approvals and Marking



Applications

- For switching lamp loads
- Input interface relay, e.g. for activation of PLC
- Output interface relay, e.g. for PLC-controlled loads

Function

The contacts are actuated with an armature via a plunger. After the exciting voltage has dropped, a spring returns the armature (which is connected to the plunger) to its home position. The contacts can be actuated manually via a pushbutton on the front as well. The pushbutton acts at the same time as an operating position display. The contacts are closed when the pushbutton is pressed. The red pushbutton is flush with the front edge when there is no current.

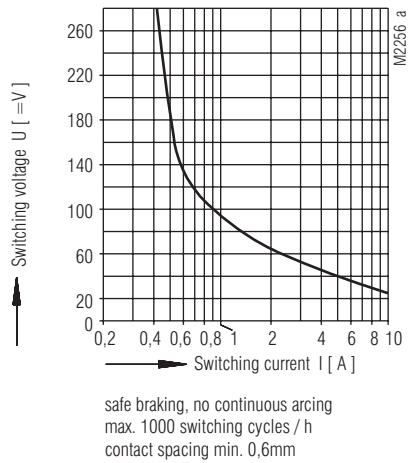
Note: IL devices have 2, IN devices have 3 pushbuttons on the front. These are **not** linked together. The pushbuttons only activate the contact shown on the front under the button.

Indicators

Pushbutton: pressed, when the relay is supplied with current

Technical Data	
Dimensions	
Width x height x depth:	
IK 8701:	17,5 x 89 x 58 mm
IL 8701:	35 x 89 x 58 mm
IN 8701:	52.5 x 89 x 58 mm
Standard Type	
IK 8701.12 AC 230 V 50 Hz	
Article number:	0033896 stock item
• Pushbutton for manual actuation of the contacts and operating position display • Output: 2 changeover contacts • Nominal voltage U_N: AC 230 V • Width: 17.5 mm	
Variants	
I_ 8701. _ _ /001:	For switching low loads up to maximum of 6 VA/W at 0.3 ... 60 V / 1 ... 300 mA The contacts also permit the maximum switching current. However, since the gold plating is burnt off at this current level, the unit is no longer suitable for switching low loads again afterwards.
I_ 8701. _ _ /002:	For $U_N > 100$ V DC or AC Can be activated with 2-wire initiators, permissible residual current ≤ 3 mA. Max. 6 glow lamps (0.5 mA each) are possible parallel to the mains button.
I_ 8701. _ _ /700:	Without manual actuation and an operating position display
Only for devices with NC or NO contact:	
I_ 8701. _ _ /003:	3 mm contact opening
I_ 8701. _ _ /006:	6 mm contact opening
	For switching large inductive direct current voltage loads (DC 220 V, L/R = 30 ms)
IK 8701. _ _ /007:	For switching lamps with parallel compensation, e.g. HQ lamps (only 1 or 2 NO contacts). Maximum parallel compensation 100 μ F
Only for DC devices:	
I_ 8701. _ _ /008:	With protection diode to protect against wrong polarity and recovery diodes to reduce switching spikes, plus on A2+
I_ 8701. _ _ /013:	With recovery diodes to reduce switching spikes, plus on A2+ ; contact gap 6 mm
I_ 8701. _ _ /024:	With protection diode to protect against wrong polarity and recovery diodes to reduce switching spikes, plus on A1+
I_ 8701. _ _ /027:	With recovery diodes to reduce switching spikes, plus on A1+
I_ 8701. _ _ /032:	With recovery diodes to reduce switching spikes, plus on A1+ ; 6 mm contact opening
Other variants or combinations on request	
Ordering example for variants	
I_ 8701 _ _ / _ _ AC 230 V 50 Hz	
	Nominal frequency
	Nominal voltage
	Variant, if required
	Contacts
	K: Width: 17.5 mm
	L: Width: 35 mm
	N: Width: 52.5 mm

Characteristics



Arc limit curve for direct current voltage-resistive load

Specification for Tender for IK 8701

Switching relay according to IEC/EN 61 810-1 to be built in consumer units, 1 NO contact, thermal current 16 A, pushbutton for manual actuation of the contacts and operating position display.

Width 17.5 mm.

Type IK 8701.01

Manufactured by: E. DOLD & SÖHNE KG

Switching relay according to IEC/EN 61 810-1 to be built in consumer units, 2 NO contacts, thermal current 16 A, pushbutton for manual actuation of the contacts and operating position display.

Width 17.5 mm

Type IK 8701.02

Manufactured by: E. DOLD & SÖHNE KG

Switching relay according to IEC/EN 61 810-1 to be built in consumer units, 1 changeover contact, thermal current 16 A, pushbutton for manual actuation of the contacts and operating position display.

Width 17.5 mm

Type IK 8701.11

Manufactured by: E. DOLD & SÖHNE KG

Switching relay according to IEC/EN 61 810-1 to be built in consumer units, 2 changeover contacts, thermal current 16 A, pushbutton for manual actuation of the contacts and operating position display.

Width 17.5 mm

Type IK 8701.12

Manufactured by: E. DOLD & SÖHNE KG

Switching relay according to IEC/EN 61 810-1 to be built in consumer units, 3 changeover contacts, thermal current 16 A, pushbutton for manual actuation of the contacts and operating position display.

Width 35 mm

Type IL 8701.13

Manufactured by: E. DOLD & SÖHNE KG

Switching relay according to IEC/EN 61 810-1 to be built in consumer units, 4 changeover contacts, thermal current 16 A, pushbutton for manual actuation of the contacts and operating position display.

Width 35 mm

Type IL 8701.14

Manufactured by: E. DOLD & SÖHNE KG

