

# ABF330 - ABG13

## ■ Bistable relays



Type ABF330 and ABG13 relays are instantaneous all-or-nothing relays with two stable off-positions.

Change-over from one position to the other is initiated through momentary energizing of the corresponding winding.

Both positions are maintained without energy consumption, even if the control command remains active.

ABF330 relay : 1 group of 3 changeover contacts.

ABG13 relay : 2 groups of 3 changeover contacts.

Each relay consists of:

- a bistable motor with a double coil,
- a locking contact per coil to prevent continuous power consumption when the command signal is maintained.

## Adaptability and robustness

The ICE SAS bistable relays offer the following advantages:

- great simplicity,
- compact size and robustness,
- up to 6 changeover contact circuits (ABG13).

### OUR TRADEMARKS



## GENERAL CHARACTERISTICS

### • Choice of supply voltage

Direct current (-20% to +10%)	24 V	48 V	110 V	125 V
Alternating current (-15% to +10%)	58 V	100 V	127 V	220 V

For other ratings, consult us.

### • Consumption (limited to the switching time)

ABF330	Coil "a"	16 to 20 W or VA
	Coil "b"	5 to 7 W or VA
ABG13	Direct current	15 W
	Alternating current	20 to 30 VA

### • Breaking capacity

	DC Resistive circuit			DC L/R circuit = 40 ms			AC Cos φ = 0.4		
Voltage	24 V	125 V	220 V	24 V	125 V	220 V	24 V	127 V	220 V
ABF330	10 A	1 A	0.6 A	10 A	0.8 A	0.4 A	10 A	7 A	7 A
ABG13	5 A	0.8 A	0.4 A	3.5 A	0.6 A	0.3 A	6 A	6 A	5 A

### • Contact operating time: continuous operation: 10 A - short term operation: 250 A / 30 ms.

### • Reponse time

		Changeover contact (a → b)		Changeover contact (b → a)	
		n.o. contact make time	n.c. contact break time	n.o. contact make time	n.c. contact break time
ABF330	direct current	20 ms	8 ms	25 ms	5 ms
ABG13	direct current	30 ms	25 ms	30 ms	25 ms

### • Operating temperature: -5°C to +40°C

### • Dimensions without socket and weight

ABF330: 45 x 45 x 85 mm - 240 g	ABG13: 66 x 110 x 105 mm - 650 g
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## DIAGRAMS (relays viewed from front - de-energised position)

