



DESCRIPTION

An electronically Panic Button has a far better reliability than a mechanical one. Contact problems and reliability problems are eliminated and there are a lot of logical functions added as well. The electronic gives a well-defined output to alarm systems. HB120 is preferably used in applications, like banks and other high security installations, to all kinds of installations where call for attention in a hold-up or trouble situation is needed.

INSTALLATION

- HB 120 is only designed for indoor applications.
- Mount the contact under a table, counter or in a place where you might need to call for help.
- Mount the contact with the enclosed two screws diagonally placed.
- HB 120 has a built-in tamper protection of the lid.

ALARM 1

HB 120 signals Alarm 1 when the two buttons are pressed at the same time. When Alarm 1 occurs the built-in LED shows red light. This indication is shown until reset either by 0 V on terminal 12 or by pressing the reset button through the hole in the lid. With jumper J2 the contact can be programmed to only require one button to be pressed for Alarm 1. In Alarm 1 mode the relay output can be programmed to hold until reset or to automatically reset after two seconds. The LED is not dependent of this programming; the LED is latched in alarm and must always be reset.

Alarm 1 has an output for external indication. This indication output follows the LED. Output rating 50mA, goes negative on alarm.

ALARM 2

HB 120 signals Alarm 2 when one button, no matter which one, is pressed. When Alarm 2 occurs the built-in LED shows yellow light. This indication can be programmed to be reset or only be active as long as the button is pressed. The Alarm 2 relay output can be programmed to hold until reset or automatically reset after two seconds. The relay output can also be programmed to only hold during the actual pressing of the button.

PRIORITY

Alarm 1 has priority over Alarm 2. If both buttons are pressed during an Alarm 2 state an Alarm 1 will be signalled and indicated. Both alarm relays will be activated.

POWER LOSS

In case of a power loss sabotage alarm will be signalled.

PROGRAMMING

The programming of the HB 120 is done with the four jumpers J1 – J4, see picture below.

J1 controls the Alarm 1 relay output.

Jumper closed gives relay hold until reset.
Jumper open gives automatic reset after 2 seconds.

J2 controls if one or two buttons shall give Alarm 1.

Jumper closed gives one button, no matter which one or both buttons for Alarm 1.
Jumper open gives two buttons for Alarm 1.

Note! J2 must be open if Alarm 2 is to be functional.

J3 controls the Alarm 2 relay output.

Jumper closed gives relay output to be set by the Alarm 2 LED programming of jumper J4. If J4 is closed the relay output is in hold mode until reset and if J4 is open the relay output is activated during the actual pressing of the button.
Jumper open gives relay output follows the pressing of the button for 2 seconds and is then automatically reset.

J4 controls the yellow LED Alarm 2 indication.

Jumper closed gives yellow indication that holds until reset.
Jumper open gives yellow indication that follows the button status.

INDICATION

The LED gives two different indications, red for Alarm 1 and yellow for Alarm 2. If you of any reasons do not want the indication to be shown you can cut a leg on the LED. For red it is the left leg, seen from the connection terminal, and for yellow it is the right leg. If no indication at all is wanted you can cut the middle leg on the LED.

RESET

1. Remote reset of the relay outputs and LED indications are done by applying 0 volt on terminal 12.
2. Locally by using a small screwdriver and through the small hole in the lid press on the reset button on the PCB for 2 seconds.

NOTICE: Do not reset by power down. That will cause sabotage alarm.

CONNECTIONS

- 1 Power supply (-)
- 2 Power supply (+)
- 3 NC (Alarm 1)
- 4 C (Alarm 1)
- 5 Spare
- 6 External indication Alarm 1
- 7 NC (Alarm 2)
- 8 C (Alarm 2)
- 9 Spare
- 10 Tamper
- 11 Tamper
- 12 Reset

TECHNICAL DATA

Supply voltage	8 - 15 VDC
Current draw (standby)	7 mA
Current draw (alarm)	24 mA
Alarm output	2 x Relay, NC
Contact rating	48 VDC / 100 mA
Alarm indication	LED
Tamper protection / Rating	Yes / 48 VDC / 50 mA
External indication Alarm 1	Negative at alarm, 220Ω in series, max 50 mA
Automatic reset	Approx. 2 seconds
Connection	Screw terminals
Housing material	ABS Plastic
Colour	White
Operating temperature range	-10 to +55°C
Housing protection class	IP 31
Dimensions (L x W x H) mm	80 x 65 x 30

