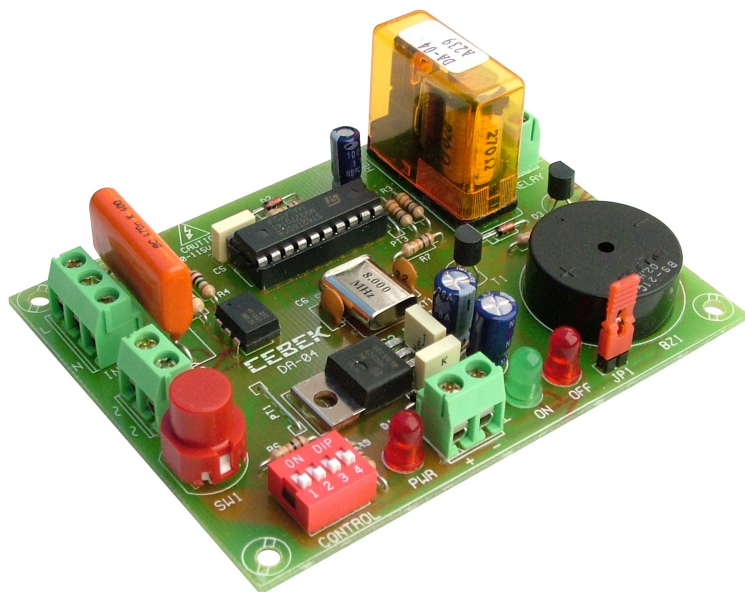




# cebek<sup>®</sup>

## ACCESS CONTROL FOR INTELLIGENT RING DA-04



### TECHNICAL CHARACTERISTICS

|                                    |                      |
|------------------------------------|----------------------|
| Voltage. ....                      | 12 V. S.C.           |
| Low energy. ....                   | 15 mA.               |
| Maximum consumption. ....          | 70 mA.               |
| Timing relay. ....                 | From 1 to 4 sec.     |
| Max. applicable to the relay. .... | 3 A.                 |
| Duration min. pulse. ....          | 40 msec.             |
| Length max. pulse. ....            | 5 seconds.           |
| Space min. between pulses. ....    | 300 msec.            |
| Space max. between pulses. ....    | 2 seconds.           |
| Space max. between pulses. ....    | 2 seconds.           |
| Max. melody. ....                  | 10 beats + 9 spaces. |
| Time in self-lock status. ....     | 5 minutes.           |
| Measures. ....                     | 94 x 72 x 30 mm.     |

The DA-04, connected to a doorbell, to control access to any place or premises by reproducing exactly on the same ring of a previously recorded song. The melody is kept in memory even after turn off the module.  
Has self-locking repetition of failed attempts. Allows both recording and playback of the melody.  
Includes leds, acoustic, and terminals.

**VOLTAGE MODULE.** The DA-04 must be supplied with a voltage of 12 V. S.C. adequately stabilized, so we recommend not using simple feeders or rectifiers, which adversely affect the operation of the module, but a power supply. We suggest the EF-2, or the model FE-103 which is well suited to the needs of the circuit. Install a fuse and a switch as illustrated. Both are essential to protect the module for your own safety, as reflected in the CE standard.  
Observe the General Wiring. Asked the layout of the source output, a positive and negative power, corresponding to the input terminal of the module shown in the drawing. Make sure the installation was successful and do not activate the switch until you have read the rest of the instructions.

**OPERATION.** The operation of the module can be roughly divided into two parts or concepts, control of operations and their use in common job

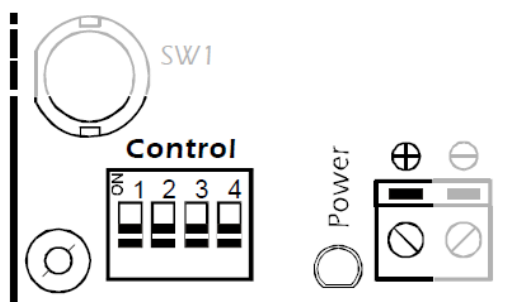
**CONSIDERATIONS OF DA-04.** Before turning to the description of the operations control or use in common work, you must follow these instructions:

- If the input wiring ring exceeds 50 cm., use shielded cable. However, do not exceed 2 m. installation and maximum length, otherwise the circuit may operate incorrectly.
- Please note that during operation in different parts of the module can reach 230 V. circular C.A. so we recommend extreme care and attention during assembly and handling.
- Ultimately, the DA-04 protection from inclement weather direct, excessive moisture, water, extreme temperatures, as well as equipment or industrial parasites generating devices such as coils, contactors, motors, fluorescent, etc.
- The switches 1 and 2 battery switches "Control" should never be selected at the same time in the On position. Select only one of them according to your task

### CONTROL OF OPERATIONS.

Control Operations were performed through the battery of four switches incorporating the module. Using the Control Operations can perform the functions of recording and playing the melody of access, in addition to programming of the timing of the relay.

Battery Status  
Control Switches  
Operations in  
motherboard



**OPERATION.** The DA-04 is an intelligent circuit, specially designed to control access to doors with an external ring. The module, after being recorded a tune in memory, and then connecting it to the doorbell, you'll see every keystroke made on it. If the pulses correspond to the reproduction of the prerecorded melody, the trigger circuit output, allowing the opening of the door. If the pulses do not respond to the pattern of the melody, the circuit denied access.

The bell, when connected in parallel with the DA-04, every time you press will sound, masking and enhancing function of the module. Only knowledge of it and the reproduction of the melody allow automatic opening of the door.

**CONTROL OF OPERATIONS. RECORD OF THE MELODY.** The recording of the melody is essential for module operation. For reasons of subsequent recognition of the melody, the DA-04 is bounded at pulse specifications described in the Specifications. The effective translation of all of them can be summarized the following points:

- 1. Make beats defined, neither too short nor too long. Note that if pulse is too fast, the circuit will be ignored. Also, must respect the minimum space maximum between keystrokes, etc.
- 2 °. In the recording, use the insert button on the motherboard, suited for that role. While this is produce can not provide any momentum through ring entries.
- 3 °. Perform several tests with simple melodies, (few clicks), before recording the final.
- 4 °. Avoid the use of tunes codes widely used in calls to doors, this will ensure further exclusive access.

Power supply module, the LED "Pwr" lights. Below and start recording, first place Switch 1 switches battery referenced as "CONTROL" in the On position. Immediately after the LED is On light indicating the correct circuit availability for the operation.

Then use the panel push button to enter the desired track. If it exceeds the maximum capacity of this, or any errors occur before the end of the recording, the LED will also light Off.

To end the recording can wait for the module detects a blank space over 2 sec., When which the recording will automatically be captured in memory and illuminating the LED On and Off. Also can stop recording

placing the switch 1 in OFF position, generating the same result and work out common mode (LED On and Off off).

From that moment on, the notes will be recorded the melody introduced.

After recording, if it is stopped automatically, you must set switch 1 in OFF position and wait for the leds On and Off to turn off.

If you have a new recording, repeat the process. The new tune will erase the previous one, being this method

Replacement the only way to remove a melody.

If there is no pulse after placing the switch 1 in ON position, the module will not record anything and consequently either delete the contents of memory.

If you make a sustained push above 5 seconds, the module will record a recording mistake.



**CONTROL OF OPERATIONS. Playing the melody.** In memory storage module is the last track recorded for playback position the battery switch 2 switches "CONTROL" ON, LED Off automatically after giving proper lights circuit availability for the operation.

After that, tap the button on the board. The circuit will play exactly the contents of memory, illuminating the LED On and Off when the end of this.

Press the play button to repeat as many times as you want



**OPERATION JOINT WORK MODE.** As indicated previously, the DA-04 as the melody stored provide or deny access in response to keystrokes made on the ring which was installed.

The DA-04 has 2 inputs for connecting in parallel to the ring

The entry of three terminals referenced in Example 230 V. Input Connection as only acknowledge its connection fed exclusively with rings parallel to 230 VAC .

The two terminals referenced input as Input 3 to 24 V. Just admit your connection in parallel with rings fed exclusively with voltages between 3 and 24 V. DC or AC .

Must choose to install and tension ring as one of two entries.

Never connect the two inputs at the same time though the input voltages are different. Nor attach a ringtone to each entry. The market to ignore this warning not only void the warranty of the module but also irreversibly damage the circuit.

To enable this feature make sure that switches 1 and 2 are in the Off position. The circuit will remain at rest, On and Off LEDs off push forward to any input on the ring (or on the push plate in test mode).

If you enter the correct melody ring, the module will automatically generate a signal of acceptance by the buzzer, connected to the output and illuminating the LED On while it remains connected.

If composing a different tune than that stored in memory or any error occurs, the module will generate a sign of denial and momentarily illuminate the LED Off.

The circuit supports up to five consecutive access attempts failed. After these come in an auto-lock, preventing any operation on the module in 5 minutes, or by default until you restart the power.

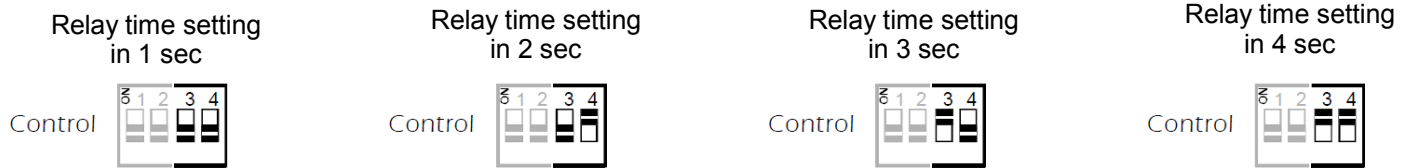
After a tune correct previous failed attempts are eliminated, preventing its accumulation. Likewise, after 5 minutes of self-locking or after restarting the module, the circuit will remove the previous failed attempts return to its normal operating state.

Between attempts to access must wait for the Off leds On or are turned off. If the relay is connected, for example, the LED will stay lit On, remaining in that state until the output is disconnected and denying form any operation.

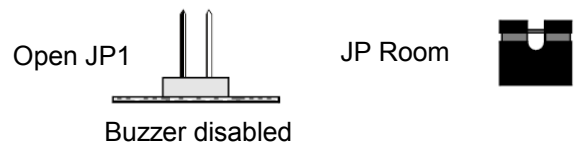
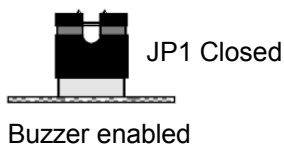


**TIMING RELAY.** The DA-04 lets you choose between 1, 2, 3 or 4 seconds, the time at which the relay, after a successful login, you must be connected.

Locate the switches 3 and 4 as the combination indicated in the following picture



**Buzzer.** If desired, you can cancel the sound from the buzzer. To do this, disengage, open the two pins of jumper JP1, JP provided by removing the factory piece. If you later want to restore sound warning, rejoin JP1 contacts.

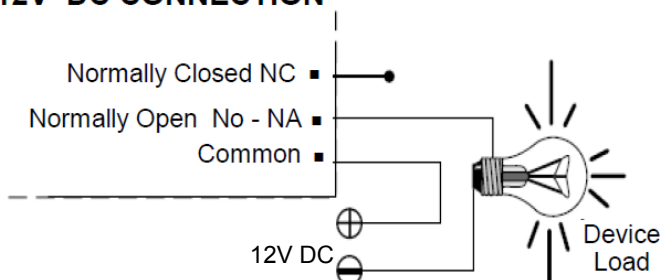


**OUTPUT CONNECTION.** The output of the DA-04 is controlled by a relay device which allows any type of load does not exceed 3 A. The relay has three output terminals. The normally open at rest (NA), the normally closed at rest (NC) and Common

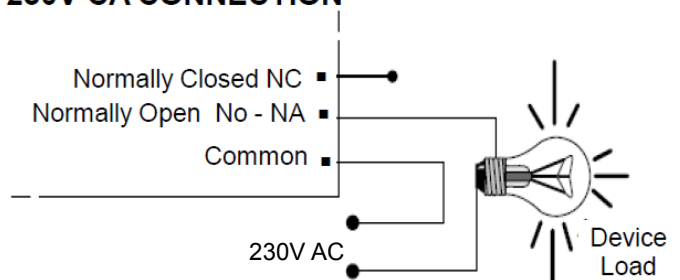
The operation of this mechanism is identical to a switch, shutting down and giving way to one of the two poles of power, or opening and denying it to pass through. The two terminals of this switch pseudo NA and the Common

To perform the inverse function must be used and common terminals NC The following chart shows the typical connection for a device operated at 12 V. S.C. and one operated at 230 V. C.A.

#### 12V DC CONNECTION

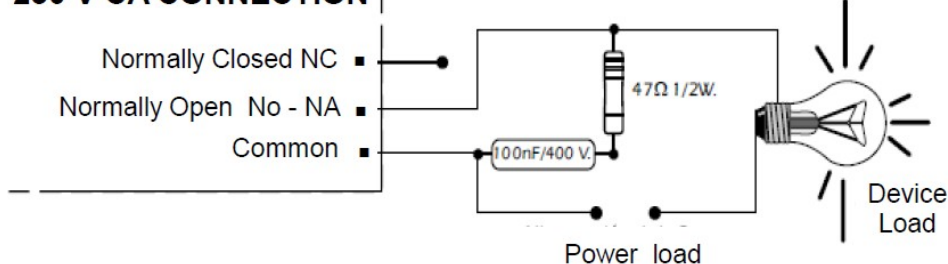


#### 230V CA CONNECTION

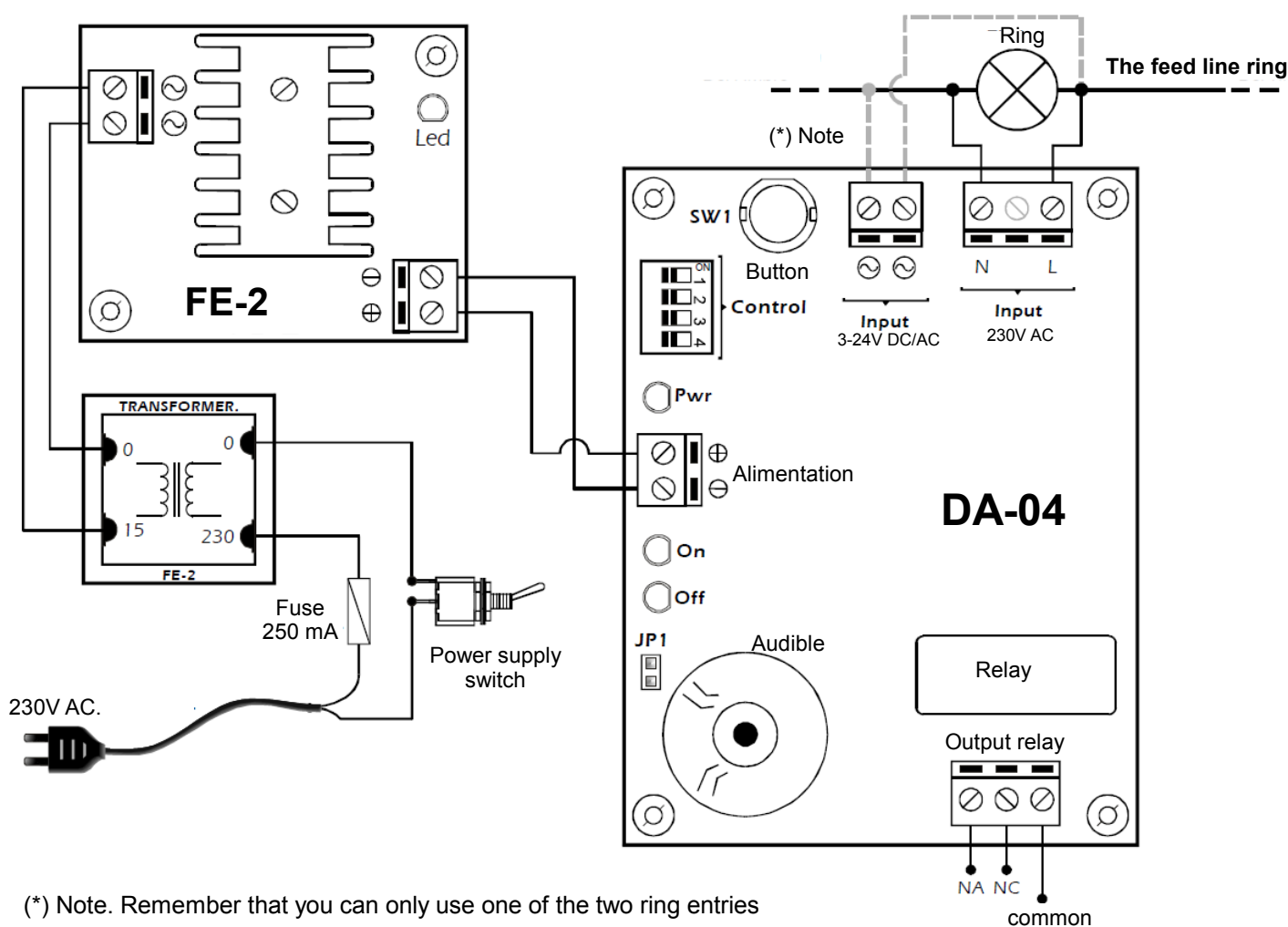


**ABOUT THE OUTPUT.** During operation of the circuit, and according to its load, it could happen a fluctuation or an incorrect output performance. If this happens, install a circuit sparking between the two relay contacts used in this connection, as shown in the drawing.

### 230 V CA CONNECTION



### GENERAL WIRING MAP



(\*) Note. Remember that you can only use one of the two ring entries



Cebek <sup>®</sup> is a registered trademark of the Fadisel group