



bibi-K12

Two passages controller



Technical data:

- card memory: 10 000
- event memory: 32 000
- connection with computer: RS485 (up to 1km)
- connection isolation: 2,5 kV RMS
- transmission speed: 57600 baud
- reader connection: 4x RS232 or 2x WIEGAND or 2x Track 2
- local bus: RS485 (9600 baud)
- relay outputs: 2 - NO 24V/1A (NC 24V/0,6A)
- transistor outputs: 2 - OC 15V/1A
- open door impulse: up to 60 s
- exit buttons: NO or NC contacts
- open door sensors: NO or NC contacts
- clock accuracy: ± 10 s per month (20°C)

- power supply voltage: 12,6V (works between 11V and 14V)
- current consumption: 100 mA
- dimensions: 130 x 130 x 35 mm
- operating temperatures: 0°C...+70°C

General device characteristics

The bibi system controllers are destined for access control. The bibi-K12 controller is designed for controlling two passages (or two-door man-lock). It is equipped with a real time clock and memory able to store 10 000 cards and registering 32 000 events.

The controller is also equipped with two relay outputs used to control electromagnetic locks. There is a possibility of connecting 4 bibi readers to the controller. The six control inputs can be used to connect open door sensors, exit buttons (or IR sensors), sabotage and alarm sensors. Connection with a computer is realized via isolated RS485 interface.



The **bibi-K12** controller is designed for indoor installation. It is placed in a small casing made of ABS material. The controller includes screw terminals for all necessary connections.

Controlling the lock

The **bibi-K12** controller has two relay outputs destined for controlling electromagnetic locks (NO mode, 24V/1A max) or door locking electromagnets (NC mode, 24V/0.6A max). The outputs are protected from short-circuits and overvoltage. However, in order to attenuate interferences in their formation places each lock inductor should be shunted by a diode (for example 1N4007). Because of the big current controlling the locks their circuits should be driven apart from other controller's connections.

Readers

The **bibi-K12** controller has two interfaces (R1-R2 and R3-R4) for connecting readers. Each of them can be set to work with different readers.

To each interface you can connect:

- two RS232 readers
- or one Wiegand reader
- or one Track 2 reader

Connecting the controller

The controller is equipped with the following terminals:

Signal	Description
+12V	+12V power supply
GND	ground (supply-)
RSA	isolated RS485 interface - line A
RSB	isolated RS485 interface - line B
RSG	isolated RS485 interface ground
OUT1	relay output - controlling lock 1
OUT2	relay output - controlling lock 2
OUT3	OC output - controlling buzzer 1
OUT4	OC output - controlling buzzer 2
R1-R2	first reader interface
R3-R4	second reader interface
IN1	exit button (passage 1)
IN2	open door sensor (passage 1)
IN3	exit button (passage 2)
IN4	open door sensor (passage 2)
IN5	sabotage sensor
IN6	control input

The following image shows how to connect the controller.

