JA-151N Wireless signal output module PG

The JA-151N is a wireless component of the JABLOTRON 100 system. It provides an output relay switch. It can be used for switching a door lock, blocking, signalling etc. The relay can be controlled with a programmable control panel (PG) output or according to the status of a section (armed = relay on) or when there is an alarm in a chosen section (alarm = relay on). The device should be installed by a trained technician with a valid certificate issued by an authorised distributor.

Installation

The module can be easily installed into a JA-190PL mounting box. For proper module functioning it is necessary to have a JA-110R radio module installed in the system.

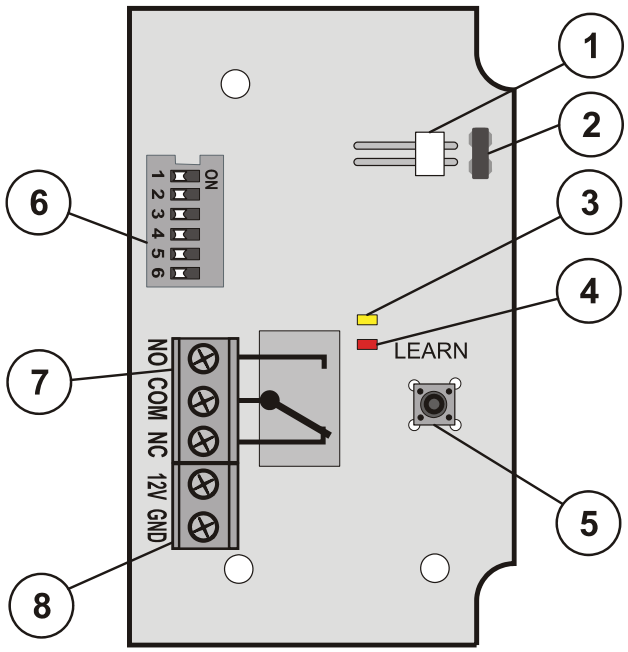

Figure: 1 – connector for external antenna; 2 – antenna jumper; 3 – yellow enrollment mode indicator; 4 – red relay switching indicator; 5 – enrollment button; 6 – configuration DIP switch; 7 – relay terminals; 8 – power terminals

1 Use the switch (6) to set the required PG output or the section to which the relay should react (see tables).

2 Connect the power cable to the terminals (8); turn the power on.

3 The yellow LED (3) starts to light permanently. Briefly press the button (5) to open the enrolment mode and the LED starts to flash. In the F-Link software at **F-Link – Settings – Devices** press the **Send enrollment signal** button. *The* module will confirm enrolling by a 2 sec. flash. If the module does not receive an enrollment signal in 120 sec., it closes enrollment mode (LED is lit) and waits for enrollment mode to be opened again.

4 Test the module's functioning. Relay switching is indicated by the red LED (4).

5 Connect the device to be controlled to the input terminals (7) when the power is not connected.

Notes:

- The module does not occupy any position in control panel.
- It is possible to enroll only one control panel to the module.
- If you connect multiple modules with identical settings to the system bus, the relays will have the same function.
- The relay switches to standby mode when it loses AC or communication is lost for 2 hours. After AC or communication restoration the module will switch to the requested mode in 8 sec.
- You can connect an external antenna via a connector (1) on the PCB. When an external antenna is used, the antenna jumper (2) has to be taken out. Recommended types of antennas are: AN-80, AN-81.
- We recommend you to use a DE-06-12 adapter for mains powering.
- You can erase an enrolled control panel by pressing and holding the button (5) for 6 sec. Erasing is confirmed by 6 x quick flashes of the LED (3). Then the LED starts flashing and the module opens enrollment mode.
- The setting of individual programmable outputs is done in the PG outputs tab in the F-Link software. A detailed description of the settings is available in the control panel installation manual.
- When the output is set according to the SECTION SET table the relay is on if the section is fully set.
- When the output is set according to the SECTION ALARM table the relay is on if there is an external or internal warning (EW or IW).

PG 1	PG 2	PG 3	PG 4	PG 5	PG 6	PG 7	PG 8
PG 9	PG 10	PG 11	PG 12	PG 13	PG 14	PG 15	PG 16
PG 17	PG 18	PG 19	PG 20	PG 21	PG 22	PG 23	PG 24
PG 25	PG 26	PG 27	PG 28	PG 29	PG 30	PG 31	PG 32

table 1: The relay reacts to the PG output state.

SC 1	SC 2	SC 3	SC 4	SC 5	SC 6	SC 7	SC 8
SC 9	SC 10	SC 11	SC 12	SC 13	SC 14	SC 15	SECTION: SET

table 2: The relay reacts to setting the selected section

AL 1	AL 2	AL 3	AL 4	AL 5	AL 6	AL 7	AL 8
AL 9	AL 10	AL 11	AL 12	AL 13	AL 14	AL 15	SECTION: ALARM

table 3: The relay reacts to an alarm in the selected section

Technical specifications

Power	12 V DC (10...16V)
Communication band	868.1 MHz
Current consumption if relay switched on / off	18 mA / 35 mA
Contact rating	
Maximum switching voltage	50 V AC / 60 V DC
Resistive load (cosφ=1)	max.2 A
Minimum switching current	10 mA
Dimensions	82 x 50 x 16 mm
Operational environment	Indoor general
Operating temperature range	-10 to + 40 °C
Also complies with	ETSI EN 300220, EN 50130-4, EN 55022, EN 60950-1

JABLOTRON ALARMS a.s. hereby declares that the JA-151N is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The original of the conformity assessment can be found at www.jablotron.com - Technical Support section

Note: Although this product does not contain any harmful materials we suggest you return the product to the dealer or directly to the producer after use. For more detailed information visit www.jablotron.com.

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