

The JA-110N-DIN Bus PG-DIN power output module

The JA-110N-DIN is a component of the JABLOTRON 100 system. It provides a PG output power relay switch. It has been designed for mounting on a DIN rail and for switching mains-powered output devices (up to 230 V/16 A). The module should be installed by a trained technician with a valid certificate issued by an authorized distributor.

Installation

The module has been designed for mounting on a DIN rail in conformity with EN60715. It is connected to a system bus through which it is also powered. It has to be enrolled into the system and occupies one position.

When connecting the module to the system digital bus, always switch the power off.



If the module is installed outside the guarded area, the JA-110T bus insulator should be used for the external section of the wiring.

Electrical devices can only be connected by a trained technician.

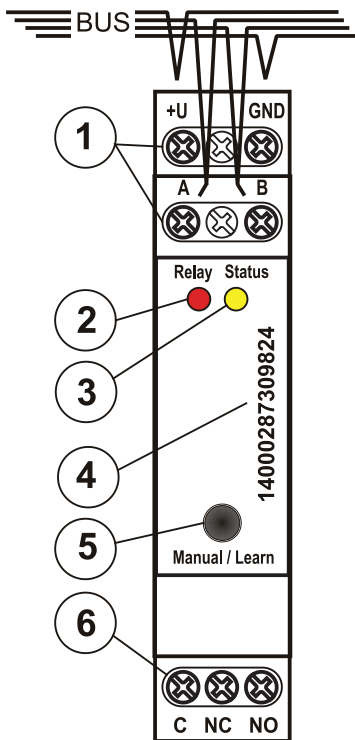


Figure: 1 = bus terminals (CC-01(02) cable): +U red, GND black, A yellow, B green; 2 = red LED – relay triggering; 3 = yellow LED - failure; 4 = production code; 5 = enrollment or manual trigger button; 6 = relay terminal;

1. Install the module on a DIN rail.
2. Connect bus wires to the terminals (1). We recommend using a CC-01 or CC-02 cable (supplied by Jablotron) to connect a module.
3. Proceed according to the control panel installation manual. Basic procedure:
 - a. When the relay is switched on, the yellow LED (3) starts flashing repeatedly to indicate that it has not been enrolled to the system.
 - b. Go to the **F-Link** program, select the required position in the **Devices tab** and launch the enrollment mode by clicking on the **Assign** option.
 - c. Press the **Manual/Learn (enrollment)** button (5) – the module is thus enrolled into the system and the yellow LED goes off.
4. Test the module functioning. When the module is switched on, the red LED (2) starts to light.
5. Connect the device to be controlled by the relay to the relay output terminals (6).

Setting of module properties

Go to the **Detectors** window in the **F-Link** program. When you are at the module position, use the **Internal settings** option. Set the following in the dialogue window:

Manual control (5): Module control with the button is enabled as a default. Function: brief pressing of the button triggers the relay (status) ON/OFF. System control commands (on the bus) override the state selected with the button. Manual control is possible even in a situation when there is no communication with the control panel for some reason. The button control function can be completely disabled in a dialog window.

Relay activation by a PG output: It is possible to select module activation by one or more PG outputs.

Notes:

- Multiple modules can be enrolled to the system. The number of modules is only limited by the number of devices and by the power consumption from the digital bus.
- If communication is lost (A-B bus connections) for more than 60s, the module relay switches to idle mode.
- The module can also be enrolled into the system by entering its production code (4) in the F-Link program. All numbers should be entered (number format example: 1400-00-0000-0001).
- The settings can also be set in the **F-Link - PG outputs** tab – **Activation button**

Technical specifications

Power	from control panel digital bus 12 V (9...15 V)
Consumption in standby mode (relay off / on)	5 mA/45 mA
Current consumption for cable selection	45 mA
Relay contact capacity (galvanically separated from the bus)	
– class protection II:	
Maximum acceptable output through voltage	250 V AC/24 V DC
Resistive load (cosφ=1)	max. 16 A
Inductive (capacitive) load (cosφ=0.4)	max. 8 A
Halogen lighting	max. 1000 W
Minimum DC switched power	384 W
Minimum DC output power	0.5 W
Connected wire diameter	max. 2x 1.5 mm ² max. 1x 2.5 mm ²
Dimensions	18 x 90 x 64 mm
Environment	indoor general
Operating temperature range	-15 to +50 °C
Degree of protection	IP-20
Also complies with	EN 50130-4, EN 55022, EN 60950-1, DIN rail EN60715



JABLOTRON ALARMS a.s. hereby declares that the JA-110N-DIN is in a compliance with the relevant Union harmonisation legislation: Directives No: 2014/35/EU, 2014/30/EU, 2011/65/EU. The original of the conformity assessment can be found at www.jablotron.com - Section Downloads.

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.