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

*The JA-110N-DIN is a component of the **JABLOTRON** system. It has been designed for mounting on a DIN rail. It provides a PG output power relay switch. The module can be used to control lighting, fan etc. The relay is a programmable output (PG) of the control panel. The module should be installed by a trained technician with a valid certificate issued by an authorized distributor. **This product is compatible with the JA-101K, JA-103K, JA-106K and JA-107K control panels.***

Installation

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

1. Install the module on a DIN rail.
2. Connect the bus cable to the terminals (1)

When connecting the module to the system 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.

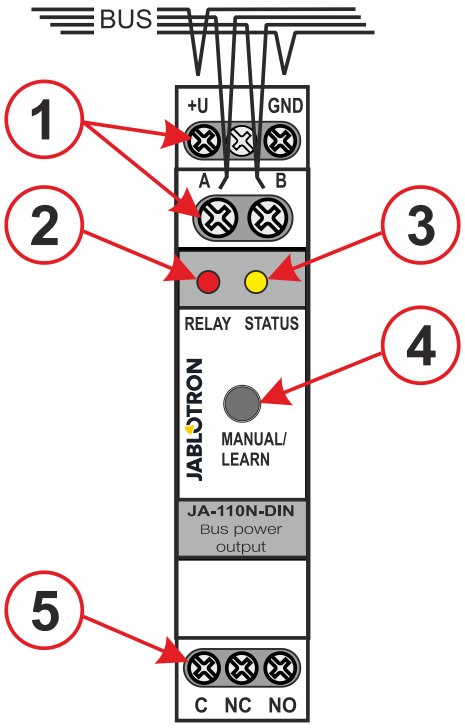

Figure: Description of all parts of the product

1 – bus terminals (CC-01(02) cable: +U red, GND black, A yellow, B green);
2 – red LED - relay triggering; 3 – yellow LED - fault;
4 – enrolment or manual trigger button; 5 – relay terminal

3. Proceed according to the control panel installation manual. Basic procedure:
   a. When the module is switched on, the yellow LED (3) starts flashing repeatedly to indicate that the module has not been enrolled to the system.
   b. Go to the ***F-Link*** software, select the required position in the ***Devices*** window and launch the enrolment mode by clicking on the ***Enroll*** option.
   c. Press the *Manual/Learn* button (5) – the module is enrolled into the system and the yellow LED goes off.
4. Test the module function. When the module is switched on, the red LED (2) lights up.
5. Connect the device to be controlled by the relay to the relay output terminals (5).

Module internal settings

The module settings can be set in the ***Devices*** tab in the ***F-Link*** software. At the module position, click on the ***Internal settings*** option to open a dialogue window where you can set the following:

Manual control (5): Enabled: short pressing of the button triggers the relay ON/OFF *(status)*. System control commands (on the bus) override the status selected with the button. Manual control is possible even in a situation when there is no communication with the control panel. The button control function can be completely disabled.

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

Notes:

- Multiple modules can be enrolled into the system. The number of modules is only limited by the number of devices and by the power consumption from the 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 in the F-Link program. All numbers must be entered (example: 1400-00-0000-0001).
- The settings can also be set in the ***F-Link*** – ***PG outputs*** tab – ***Activation*** button – option ***PG output activates device***

Technical specification

Power	from control panel bus 12 V DC (9…15 V)
Quiescent current consumption (relay off)	5 mA
Maximal current consumption (relay on)	45 mA
Relay contact capacity (galvanically and securely separated from the bus)	
Maximum switched voltage	250 V AC / 24 V DC
Resistive load (cos φ = 1)	max. 16 A
Inductive (capacitive) load (cos φ = 0,3)	max. 6 A
Halogen lighting	max. 1000 W
Direct current DC	384 W
Minimum DC switched output	0.5 W
Power dissipation	1.6 W
Power loss for switchboard warming	1.9 W
Classification	Class protection II
Connected wires diameter	max. 2x 1.5 mm^2 max. 1x 2.5 mm^2
Dimensions	18 x 90 x 64 mm (according to EN 60715)
Weight	65 g
Environment	Indoor general
Operational temperature range	-10 °C to + 40 °C
Average operational humidity	75% RH, non-condensation
Protection degree	IP-20
Complies with	EN 50130-4, EN 55032, EN IEC 62368-1, EN IEC 63000

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

Note: Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling. Please return the product to the dealer or contact your local authority for further details of your nearest designated collection point.

JABLOTRON a.s.
Pod Skalkou 4567/33 | 46601 | Jablonec n. Nisou
Czech Republic | www.jablotron.com