

# The JA-110Z - BUS splitter with tamper protection

The JA-110Z BUS splitter serves for splitting the JABLOTRON 100 system BUS. It is protected against tampering by a pair of tamper contacts. It is supplied with a JA-190PL box/housing for which this module has been designed. It also includes a couple of 4 input/output terminal blocks to be used as an auxiliary for the connection of usual wired zones.

It occupies one position in the system. The product can only be installed by a trained technician with a valid certificate issued by an authorised distributor.

## Installation

The splitter should be installed into the JA-190PL supplied box. For the tamper contacts, functioning and measuring the voltage loss on the system BUS the module has to be enrolled to the system.

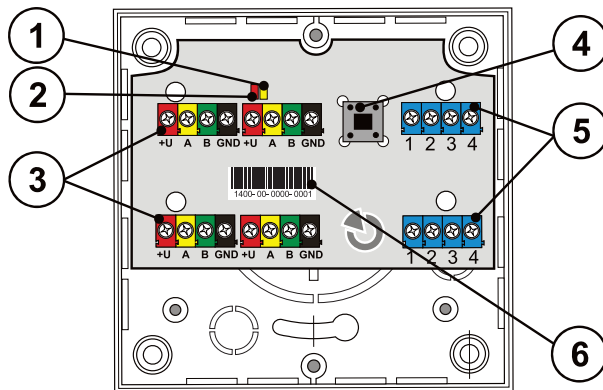


Figure 1: 1 – yellow LED indicator; 2 – red LED indicator; 3 – BUS terminals; 4 – front tamper contact; 5 – auxiliary terminals; 6 – production code

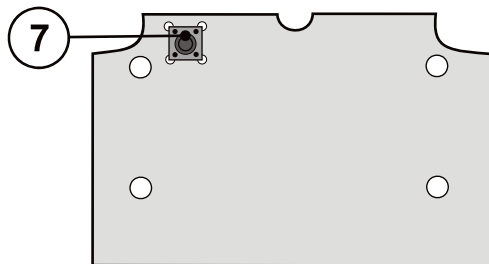


Figure 2: 7 – lower/rear tamper contact

1. Attach the JA-190PL box (with a splitter inside) to the required place. When the splitter is placed out of the protected area it's necessary to use a JA-110T BUS isolator. Or when one of the branches is directed out of the protected premises then install the JA-110T BUS isolator onto this specific leg to protect it against tampering (shorting) without influencing to the rest of the BUS.
2. Connect the BUS cable to the terminals (3). The BUS terminals are connected in parallel so no terminal is determined as an input or output.

**When connecting the module to the system BUS, always switch the power off.**



**If the module is placed out of the protected area, it is necessary to protect the system BUS using a JA-110T isolator.**

3. Proceed according to the control panel installation manual.

Basic procedure:

- a. When the system is switched on, the yellow LED (1) starts flashing repeatedly to indicate that the module has not been enrolled into the system yet.

- b. Go to the **F-Link** software, select the required position in the **Devices** tab window and launch enrollment mode by clicking on the **Enroll** option.
- c. By pressing the front tamper contact (4) the module is thus enrolled to the system and the yellow LED (1) indicator goes off.

**Note:** The module can also be enrolled to the system by entering its production code (6) in the F-Link software (1400-00-0000-0001). The production code can be found on the sticker under the bar code, glued on the PCB of the module.

If a module will not be enrolled to the system then it is going to work as a usual splitter with no tamper protection and no voltage loss measuring.

## Setting the module properties

The module properties can be set in the **Devices** window of the **F-Link** software. When at the module position, use the **Internal settings** option to open the dialogue window where you can set the following options (\*factory default settings):

**Lower/rear tamper: Enabled\* / disabled (7).**

**Note:** Optical indication is according to the JA-100 system standard.

- Yellow LED (1) – flashes when the module is not enrolled in the system yet, permanent light represents a Fault.
- Red LED (2) – LED represents activation of the tamper contacts. Blinks when their status is changed (activation / deactivation).

## Technical specifications

Power	from the control panel BUS 12 V (9...15 V)
Current consumption (in standby mode)	5 mA
Current consumption (for cable choice)	5 mA + connected detectors
Dimensions	76 x 54 x 30 mm
Classification	according to EN 50131-1, EN 50131-3 Grade II
Operational environment according to EN 50131-1	II. Indoor general

Operational temperature range	-10 to + 40°C
Comply with	EN 50130-4, EN 55022

JABLOTRON ALARMS a.s. hereby declares that the JA-110Z module is in compliance with the essential requirements and other relevant provisions of Directive 2004/108/EC, 2011/65/EU. The original of the conformity assessment can be found at [www.jablotron.com](http://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](http://www.jablotron.com).

