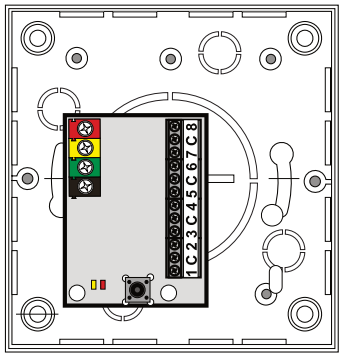
JA-118M BUS module for magnetic detectors - 8 inputs

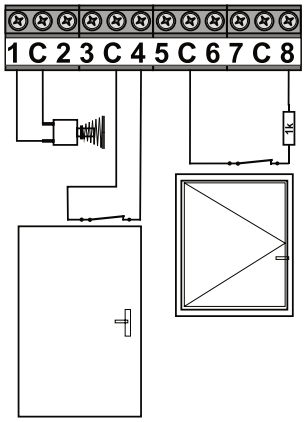
*The product is a component of the **JABLOTRON 100 system**. The module provides 8 inputs designed especially for connecting magnetic detectors. Installation into a JA-190PL universal multipurpose box is recommended (or into a KU-68 wall –mounted universal box). It should be installed by a trained technician with a valid certificate issued by an authorized distributor.*

Installation

1. Put the module into the installation box.



2. Wired loops are wired to inputs 1 to 8 with the C terminals as the common line.



- Wired loops can be wired as NC, single balanced by a 1kΩ resistor or loops triggered by repeated pulses (roller – windows shutters).
- Each input is programmable independently and the wiring mode is programmed by the **Internal settings** part of F-Link.
- Line length is max. 100m for one loop.

Fig 1: Example of an external tamper contact (1-C); Normally closed zones (C-4); single balanced zones (C-8)

3. When any kind of box is used, it has to be equipped with a tamper contact. If the JA-190PL is used, the tamper contact (7) on the PCB of the module can be used with a spring from the accessories. Or use input 1 for an external tamper.
4. Connect the BUS cable.

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

5. Proceed according to the control panel installation manual. Basic procedure:
   a. When the device is powered, the yellow LED (5) starts flashing repeatedly to indicate that the module has not been enrolled into the system.
   b. Go to the ***F-Link*** software, select the required position in the ***Devices*** window. **Necessary condition:** After the selected position there have to be another 7 positions free. Launch enrollment mode by clicking on the Enroll option.
   c. Press the tamper contact (7) – the module is enrolled to the next 8 positions and the yellow LED goes off. If any position in the next 7 is occupied, the system will overwrite those positions. When there are not enough positions left, only the rest of the free positions will be enrolled to.
6. Close the module cover.

Note:

The module is able to be enrolled to the system by entering the production code (3) via F-link software. All digits are requested (format example: 1400-00-0000-0001).

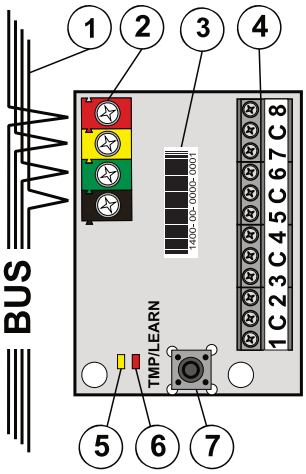


Fig 2:

1 – BUS cable;

2 – BUS terminals;

3 – production code (on the bottom of the PCB);

4 – input terminals for external magnetic detectors;

5 – yellow LED;

6 – red LED;

7 – tamper contact

Internal settings of the module

The internal settings option (it does not matter which of the 8 positions – the programming is common for all inputs) in the ***Devices*** window in the F-Link software opens a dialog window ***Internal settings*** where you can set the following options for each input (default settings are marked *):

LED activity indication: *Enabled **:* Short flashing indicates an input status has been changed.

Tamper: *Disabled **:* complete disabling of tamper contact reactions. *Internal:* reaction to the built-in internal tamper on the detector PCB (7). *External1:* using input 1 as a tamper reaction. The tamper contact on the detector PCB is out of service. Internal or external Tamper is always reported from the first position chosen when the module was enrolled to the system.

Input 1(to 8): *Disabled* – complete disabling of an input, *Enabled* * - reacts to status changing of the contact connected to the input. *Balanced* – balanced by a 1kΩ resistor connected in series with the alarm contact (accessories). Activation is triggered when the loop resistance drops below 700Ω or rises above 1300Ω, *Roller* – reacts to repeated short pulses with selectable sensitivity at 2 levels: *Impulse1* = activation after 3 pulses until a 2 minute timeout; *Impulse 2* = activation after 5 pulses until a 2 minute timeout. When the input terminal is open for more than 0,5s a tamper alarm is triggered.

Inverted input reaction: (valid for an Enabled or a Balanced input only). If unchecked *, the input reacts to disconnecting from GND (NC) *. By checking you invert the logic and the input reacts to grounding (NO).

Pulse mode: (valid for Enabled or Balanced input only)

If unchecked *, the input reacts to disconnecting from GND and grounding the loop (activation and deactivation). By checking you set the reaction to disconnecting from the ground only (the input is activated for 2 sec only).

Delay input reaction: sets the immunity to false activation. Valid for Enabled or Balanced inputs and it means how long an input has to be triggered for the control panel to react to it.: 0.5s * (settings 0.1s … 300s).

The producer can guarantee the proper functioning of the module. But it can not guarantee the proper functioning of connected detectors. In general it is recommended to use Jablotron magnetic detectors.

Technical specifications

Power	from the control panel digital BUS 12 V (9 … 15 V)
Current consumption in standby mode	5 mA
Current consumptionfor cable choice	15 mA
Dimensions	50 x 38 x 14 mm
Classification	Grade 2
according to	EN 50131-1, EN 50131-3
Operational environment according to	EN 50131-1 II. Indoor general
Operating temperature range	-10 to +40 °C
Also complies with	EN 50130-4, EN 55022

JABLOTRON ALARMS a.s. hereby declares that the JA-118M module is in compliance with the essential requirements and other relevant provisions of Directive 2004/108/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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