M-IN-AD8s: Module with eight analogue inputs

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Technical data

Supply voltage
11 — 16V DC

Current consumption
190mA

Number of analogue inputs
8

Analogue inputs impedance
20kΩ

Analogue inputs range
0 — 10V DC

Dimensions

Width
105mm, 5 spaces/modules in DB

Height (incl. plugs)
100mm

Depth
59mm

Environment

Temperature
-40 — 50°C

Humidity
≤95%RH, non-condensing

The image above is for illustration purpose only. The actual module may vary from the one presented here.

General features

Module M-IN-AD8s is a component of the Ampio system. Required voltage to power the module is 11 — 16V DC. The module is controlled via CAN bus.

The module has eight analogue inputs.

Analogue inputs

The module has inputs that allow for voltage measurement in the range of 0 — 10V DC. Input impedance is 20kΩ. These inputs can be useful for the acquisition of measurement signals from devices with voltage analogue outputs.

Typical application

- Integration with devices with analogue outputs, e.g.:
    - brightness sensors,
    - soil moisture sensors;

Installation

The module is designed for mounting on a 35mm DIN rail. The module's width is 105mm, 5 spaces/modules in DB. In order to start the module, it must be connected to the CAN bus. The bus of the Ampio system consists of four wires - two for power and two for communication between the modules.

In addition to the CAN bus connector, the device has a connector with screw terminals, enabling the connection of eight analogue signals to the module inputs.

Device status LEDs

On the front of the module there are signalling LED indicators. The green LED with the label *CAN* indicates the status of communication on the CAN bus:
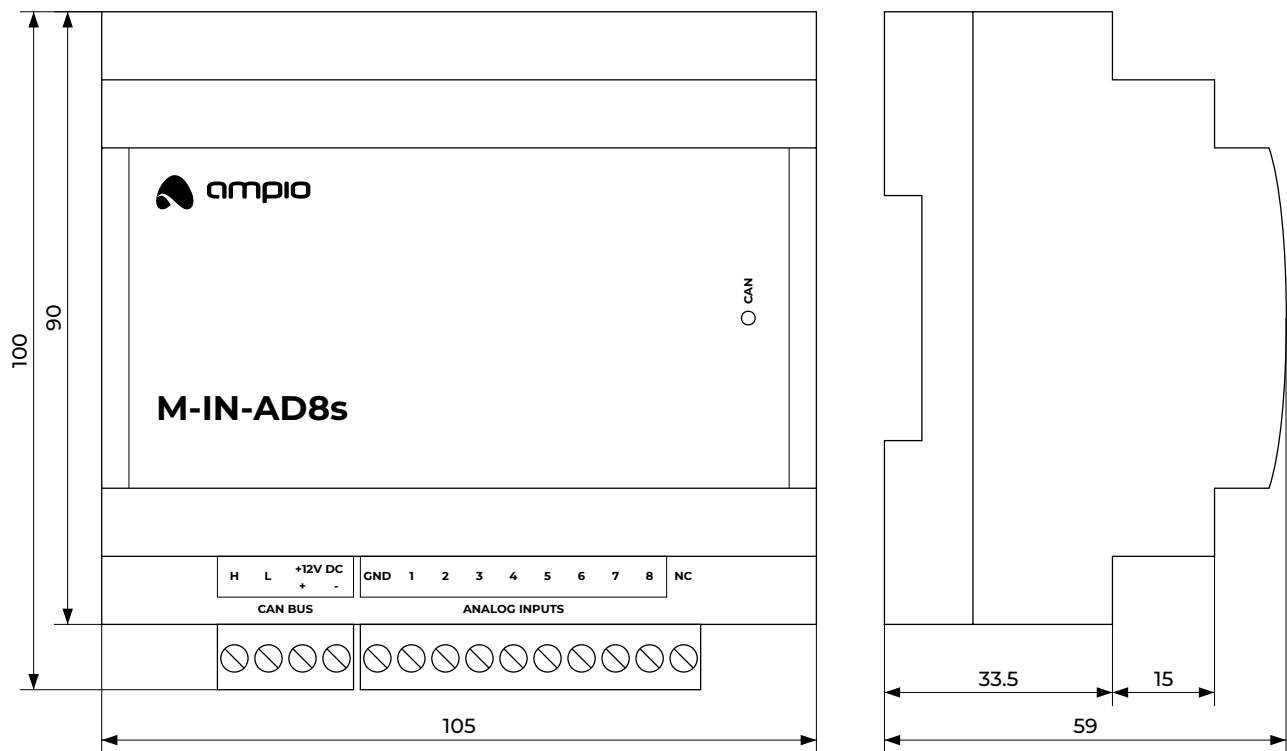
- one regular flash every 1 sec. – CAN bus communication is working properly,
- two regular flashes every 1 sec. – the module is not receiving information from other modules,
- three regular flashes every 1 sec. – the module cannot send information to the CAN bus;

Programming

The module is programmed with the use of the Ampio Designer software. It allows you to modify the parameters of the module and define its behaviour in response to signals directly available to the module as well as general information coming from all devices present in the home automation bus.

Module dimensions

Dimensions expressed in millimeters.

Connection diagram