

M-DIM-1s: Single output dimmer module

Document number: PO-011-EN Version: 1.1.0 Date of publication: February 18, 2025



Technical data

Supply voltage

11 – 16V DC

Current consumption

45mA

Controlled outputs

1

Technical data cont.

Maximum load of a single output

300W

Minimum dimmer voltage

48V AC

Maximum dimmer voltage

250V AC

Dimensions

Width

35mm, 2 spaces/modules in DB

Height (incl. plugs)

110mm

Depth

65.5mm

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-DIM-1s 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 one dimmable output.

Dimmable outputs

With the use of the module, it is possible to control the light intensity of incandescent bulbs, halogens, dimmable LED bulbs and dimmable CFL fluorescent lamps. It is possible to control light sources powered through a transformer.

The maximum power of the receiver connected to the dimmable output is 300W. The input voltage ranging from 48V AC to 250V AC can be smoothly regulated.

Typical application

- Switching on the lighting;
- smooth lighting control;
- smooth power control of AC devices of a resistive nature and a maximum power not exceeding 300W.

Installation

The module is designed for mounting on a 35mm DIN rail. The module's width is 35mm, 2 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 interface, the device has a mains voltage connector and a dimmable output.

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;

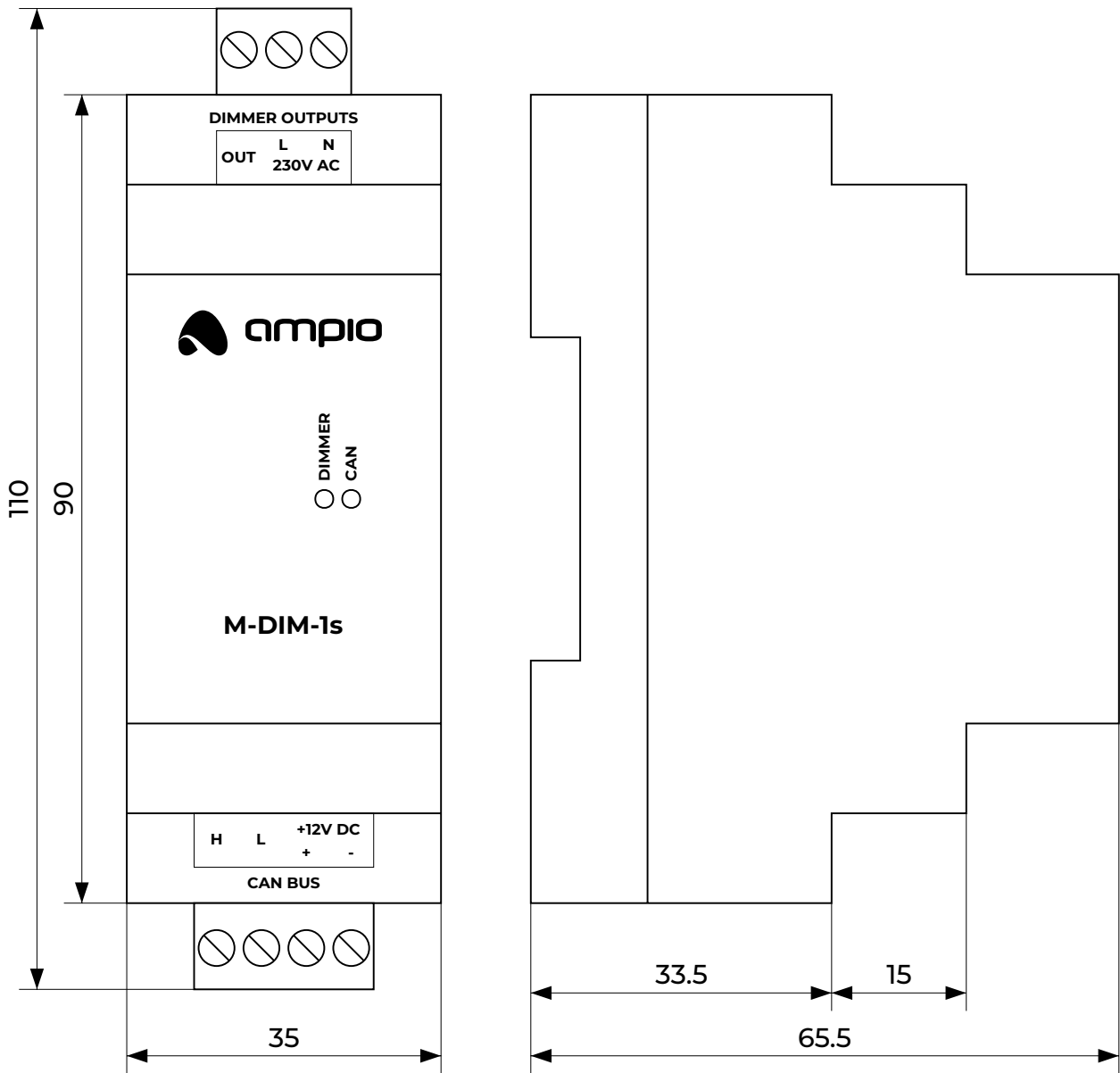
Apart from the diode indicating the communication bus status, on the front of the device there is also a diode labeled *DIMMER*. It indicates the status of the dimmable output.

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

