

# iSMA-B-2D

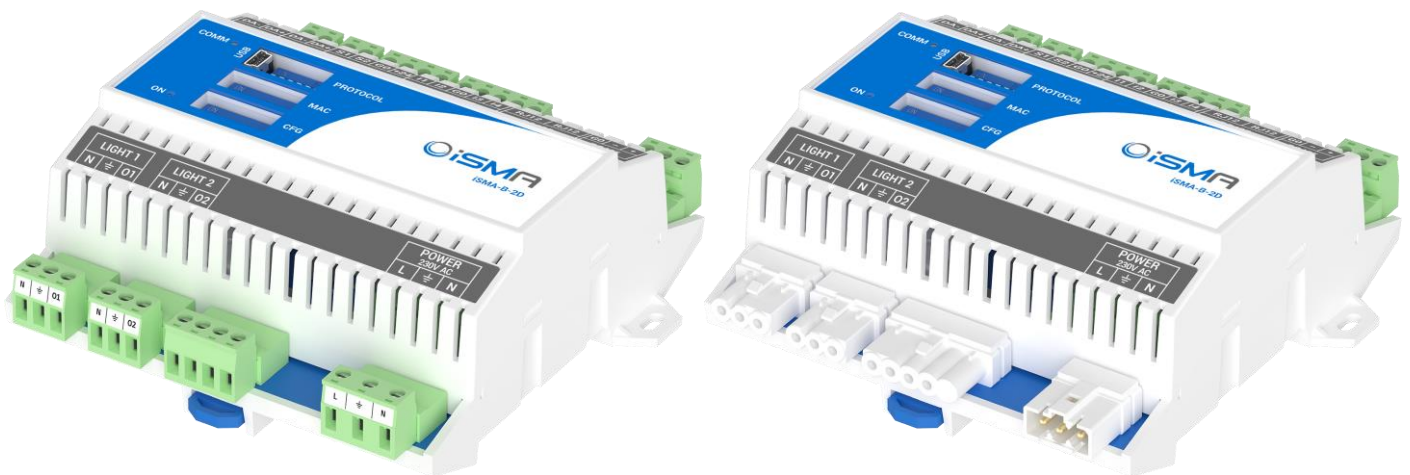
The iSMA-B-2D device has been built in order to control light in a single space in the building.

The device is dedicated to control two separate DALI light areas with up to 32 DALI ballasts. It offers a light level control mode, which maintains set light level in up to two separate zones. Built-in two special inputs and four digital inputs are dedicated to connect presence detectors, light switches, and light level sensors. Dedicated CFG DIP switch allows to activate a predefined inputs configuration. Out of the box, the device allows to control DALI ballasts by light switch and presence detector, or in the LLC mode, without the need of programming, which makes iSMA-B-2D a unique plug&play type device, dedicated to the DALI network control.

The controller is factory-equipped with the RS485 interface, which is a physical layer for the most popular open communication protocol **Modbus ASCII/RTU**.

## Key Features

- Addressing from 0 to 255 by DIP switch
- 230 V AC power supply
- Dedicated CFG DIP switch for inputs configuration
- Fast processor with ARM core
- Modbus ASCII/RTU for connecting to higher level system over RS485
- 2x DALI interface: built-in power supply for up to 16 ballasts each
- Automatic light level control (LLC) mode of operation
- Special and digital inputs for presence detectors light switches, and light level sensors connection
- 2x power supply outputs for ballasts (fuse-protected)
- 1x power supply output (fuse-protected)
- Built-in 24 V DC for external equipment



# iSMA-B-2D

## Specification

### Inputs

- 2x special input (dry contact)

**WARNING!** Voltage and current measurement values for special inputs:

Voltage: resolution 6 mV, accuracy 50 mV;

Current: resolution 30  $\mu$ A, accuracy 250  $\mu$ A.

- 4x digital input (dry contact)

### Outputs

- 2x light output 230 V AC, max. 4 A
- 1x power supply output 24 V DC, max. 80 mA

**WARNING!** Max. current for all the outputs is **8 A**.

### Power Supply

- 230 V AC

### Environment

- Operating temperature: 0°C to 50°C (32°F to 122°F)
- Storage temperature: -40°C to 85°C (-40°F to 185°F)
- Relative humidity: 5% to 95%, no condensation
- Ingress Protection Rating: IP40 (for indoor installation)

### Platform

- ARM Cortex M4

### Communication

#### RS485 Interface:

- Interface RS485 half-duplex
- Up to 128 devices on bus
- Protocol: Modbus
- Baud rate: 2400 to 115200 bps

#### DALI Interface:

- 2x separate DALI interface: built-in power supply max. 40 mA
- Up to 16 DALI ballasts per interface

### Housing

- Dimensions: 123,6x136,6x54,5 mm (4.87x5.38x2.15 in), 123,6x171,2x54,9 mm (4.87x6.74,2x2.17 in) with plastic cover for terminals
- Construction: plastic, self-extinguishing (PC/ABS)
- DIN rail mounting DIN (DIN EN 50022 norm)
- Cooling: internal air circulation

Ordering	2x Special Inputs	4x Digital Inputs	2x 230 V AC Light Output	2x Dali Interface	Wieland Connectors
iSMA-B-2D	✓	✓	✓	✓	
iSMA-B-2D-WD	✓	✓	✓	✓	✓

