

iSMA-B-2D1B

The iSMA-B-2D1B device has been built in order to control light and a blind/shutter motor in a single space in the building.

The device is dedicated to control two separate DALI light areas with up to 32 DALI ballasts. Built-in two special inputs and two digital inputs are dedicated to connect presence detectors and light switches. Dedicated CFG DIP switch allows to activate a predefined inputs configuration. Out of the box, the device allows to control DALI ballasts by a common light switch and presence detector without the need of programming, which makes **iSMA-B-2D1B** a unique plug&play type device, dedicated to the DALI network control.

In addition, **iSMA-B-2D1B** has a blind/shutter control function implemented, which allows to control a blind/shutter motor by a double-switch. 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 254 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
- Special and digital inputs for presence detectors and light and blind switches connection
- 2x power supply outputs for ballasts (fuse-protected)
- 1x power supply output for blind motor (fuse-protected)
- Built-in 24 V DC for external equipment



iSMA-B-2D1B

Specification

Inputs

- 2x special input (dry contact)
- 4x digital input (dry contact)

Outputs

- 2x light output 230 V AC, max. 4 A
- 1x motor output 230 V AC, max. 1,5 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 | 1x Motor Output | 2x Dali Interface | Wieland Connectors |
|----------------|-------------------|-------------------|--------------------------|-----------------|-------------------|--------------------|
| iSMA-B-2D1B | ✓ | ✓ | ✓ | ✓ | ✓ | |
| iSMA-B-2D1B-WD | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

