iSMA-B-2D1B

iSMA-B-2D1B 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 DIP-switch allows to activate predefined inputs configuration. Out of box the device allows to control the DALI ballasts by a common light switch and a common presence detector without the need of programming, which makes **iSMA-B-2D1B** the unique plug& play type device dedicated to DALI network control.

In addition **iSMA-B-2D1B** has blind/shutter control function implemented, which allows to control a blind/shutter motor by a common double-switch.

The controller is factory-equipped with the RS485 interface which is the 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 DIP-switch for inputs configuration
- Fast processor with ARM core
- Modbus ASCII/RTU or 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 present 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 an external equipment

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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 24V 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
- Protocols: 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

- Dimension: 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	Digital Inputs	2x 230 V AC Light Output	1x Motor Output	2x Dali Interface	Wieland connectors
iSMA-B-2D1B	✓	4x DI	✓	✓	✓	
iSMA-B-2D1B-WD	✓	4x DI	✓	✓	✓	✓
iSMA-B-2D	✓	2x DI	✓		✓	
iSMA-B-2D-WD	✓	2x DI	✓		✓	✓

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