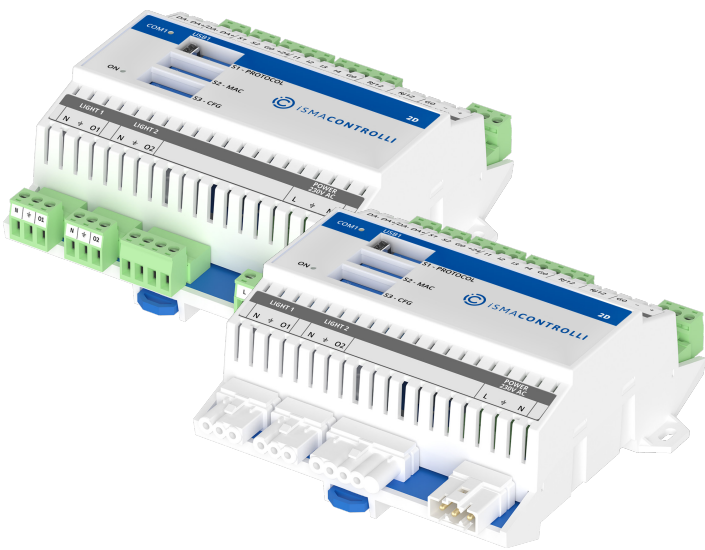


Light Controller

MODEL	DESCRIPTION
iSMA-B-2D	Light Controller
iSMA-B-2D-WD	Light Controller with Wieland connectors



APPLICATION AND USE

The 2D device is designed 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 levels in up to two separate zones. Two, built-in special 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 the 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 RTU/ASCII.

FEATURES

- Fast processor with ARM core
  - 230 V AC power supply
  - Dedicated CFG DIP switch for inputs configuration
  - Modbus RTU/ASCII for connecting to higher level system over RS485
  - 2 DALI interface: built-in power supply for up to 16 ballasts each
- Addressing from 0 to 254 by DIP switch
  - Automatic light level control (LLC) mode of operation
  - Special and digital inputs for presence detectors light switches, and light level sensors connection
  - 2 power supply outputs for ballasts (fuse-protected)
  - Built-in 24 V DC for external equipment

TECHNICAL SPECIFICATION

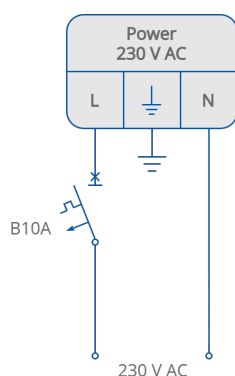
DESCRIPTION		2D(-WD)
Power supply	Voltage	230 V AC $\pm$ 10%
Special inputs	Number of inputs	2
	Voltage input	Measurement accuracy: 50 mV Measurement resolution: 6 mV
	Current input	Measurement accuracy: 250 $\mu$ A Measurement resolution: 30 $\mu$ A
	Dry contact	Output current $\sim$ 0.2 mA
Digital inputs	Number of inputs	4
	Type	Dry contact
	Maximum input frequency	100 Hz

The performances stated in this sheet can be modified without any prior notice.

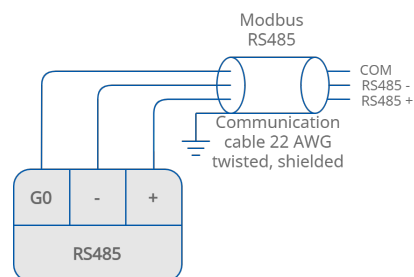
DESCRIPTION		2D(-WD)	
Light outputs (relay)	Number of outputs	2	
	Resistive load (AC1)	Max. 4 A at 230 V AC	
Power supply output	Voltage	24 V DC, max. 80 mA	
COM1	RS485 interface	Up to 128 devices	
		Half-duplex	
	Communication protocol	Modbus RTU/ASCII	
	Ports	2 RJ12 ports + screw connector	
	Baud rate	2400-115200	
DALI1	DALI interface	Up to 16 ballasts	
	Built-in power supply	Max. 40 mA	
DALI2	DALI interface	Up to 16 ballasts	
	Built-in power supply	Max. 40 mA	
USB1	mini USB	Type B	
Ingress protection	IP rating	IP 40 for indoor installation	
Temperature	Storage	-40°C to +85°C (-40°F to +185°F)	
	Operating	0°C to +50°C (32°F to 122°F)	
Humidity	Relative	5 to 95% RH (without condensation)	
Screw connectors	Type	Removable screw terminals	
	Maximum cable size	2.5 mm² (18...12 AWG)	
Wieland connectors (optional)	Type	Plug/socket Wieland GST15 series	
Housing	Material	Self-extinguishing plastic (PC/ABS)	
	Mounting	DIN (DIN EN 50022 norm)	
Dimensions		2D	2D-WD
	Width	123.60 mm/4.87 in	123.60 mm/4.87 in
	Length	136.20 mm/5.36 in	135.80 mm/5.34 in
	Height	54.50 mm/2.15 in	54.50 mm/2.15 in

## WIRING DIAGRAMS

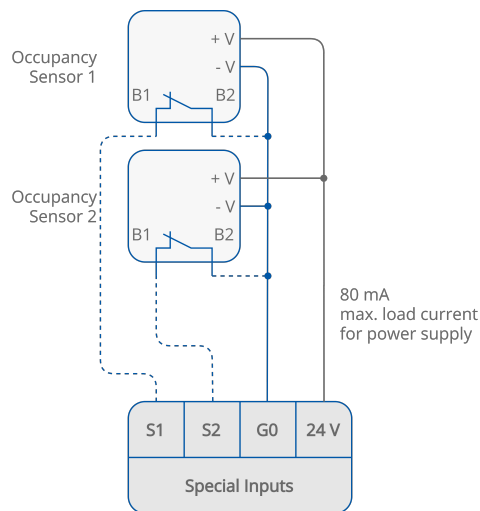
### Power Supply



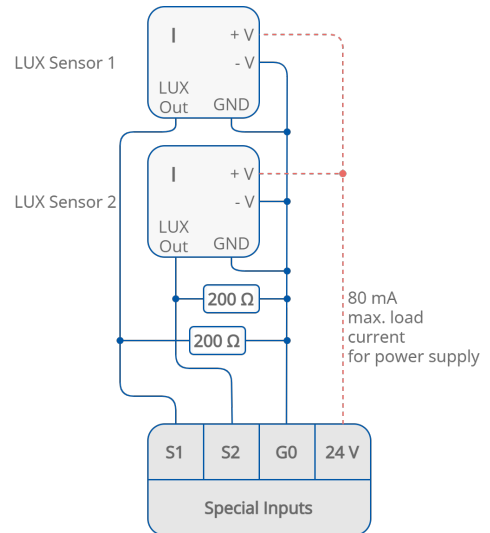
### Communication



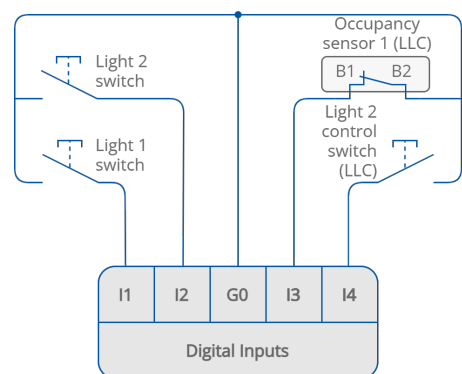
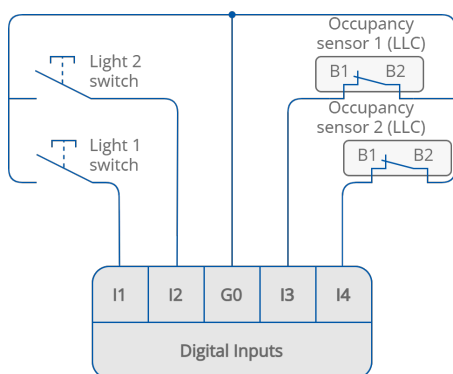
## Special Inputs



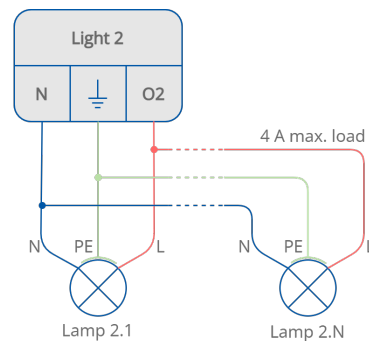
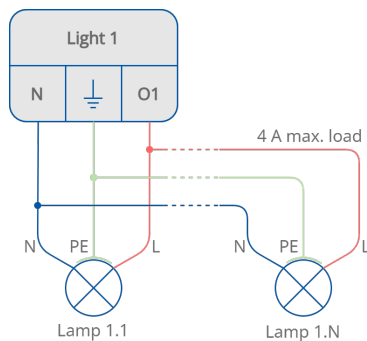
## 24 V DC Power Supply Output



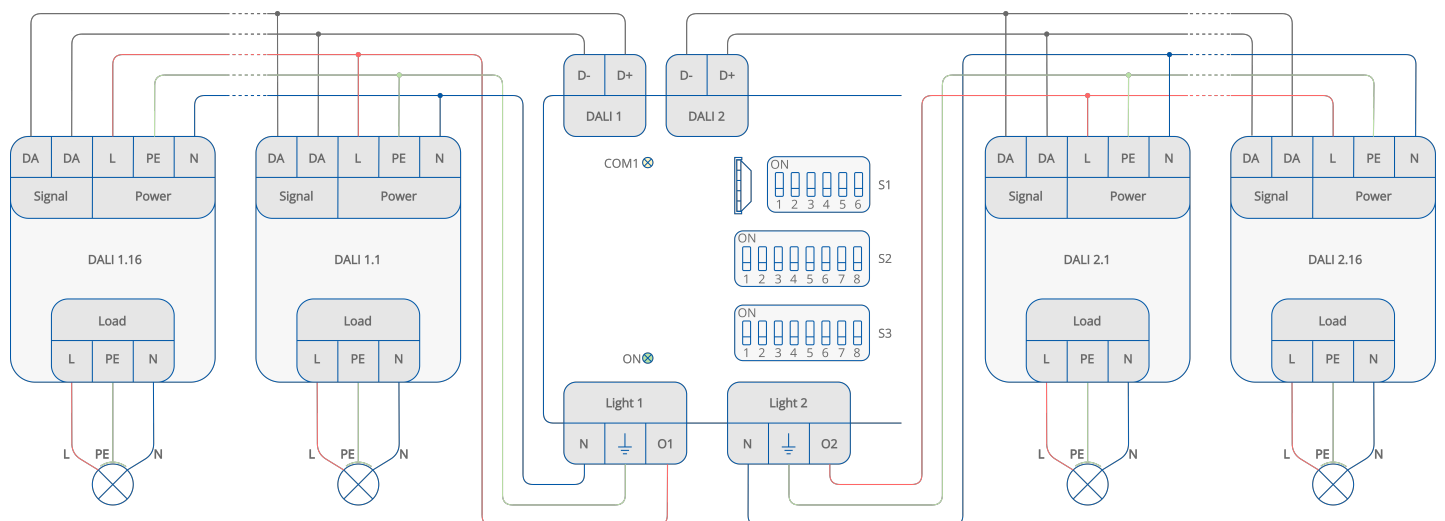
## Digital Inputs

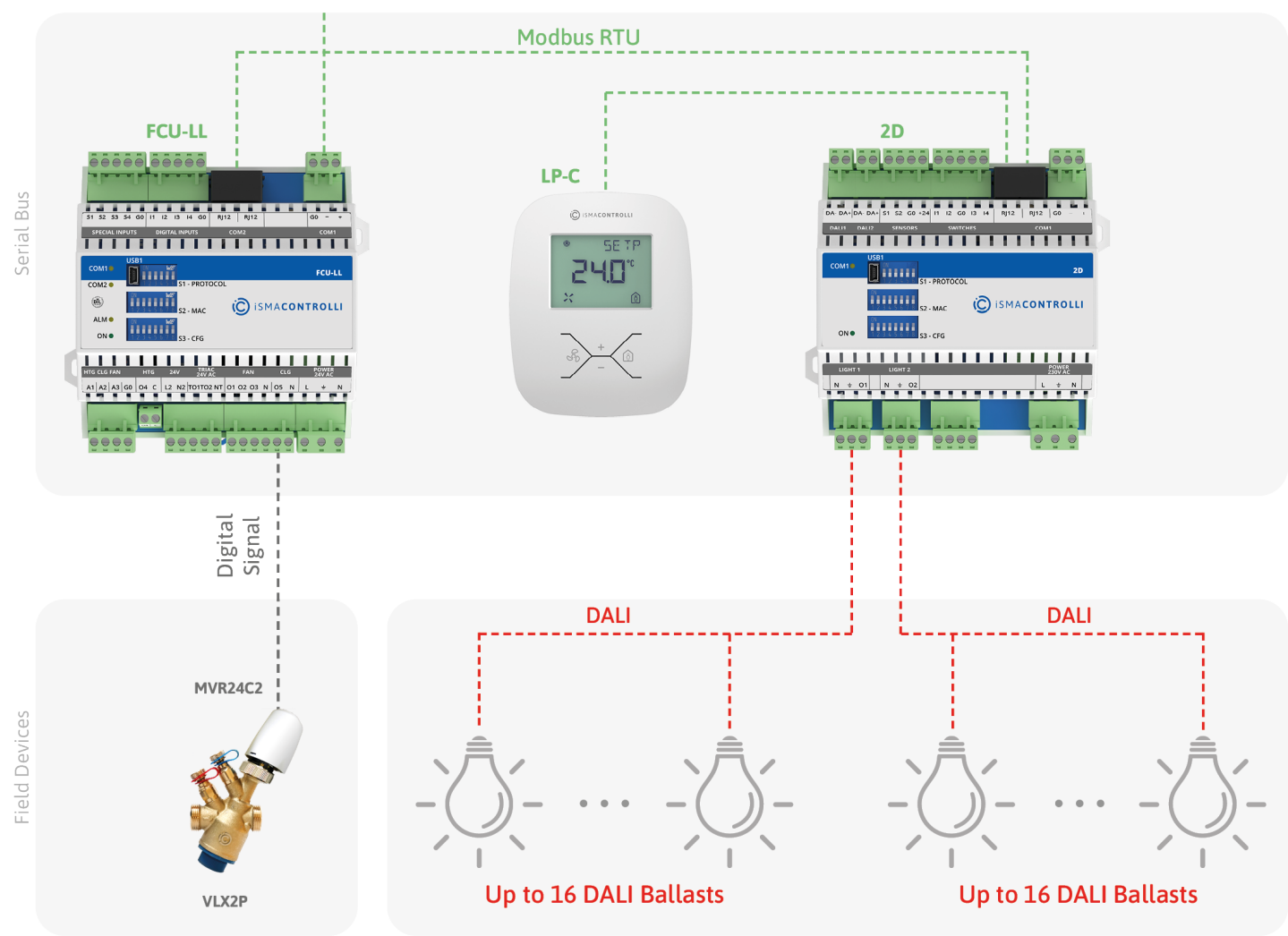


## Light Outputs



## Connection of ballasts and lamps



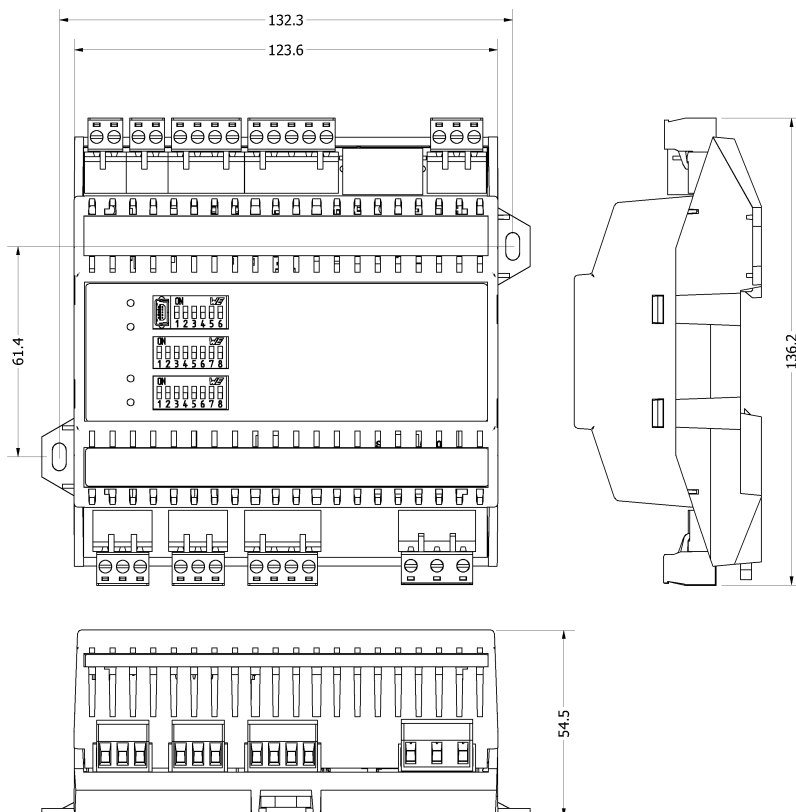


DEDICATED SOFTWARE

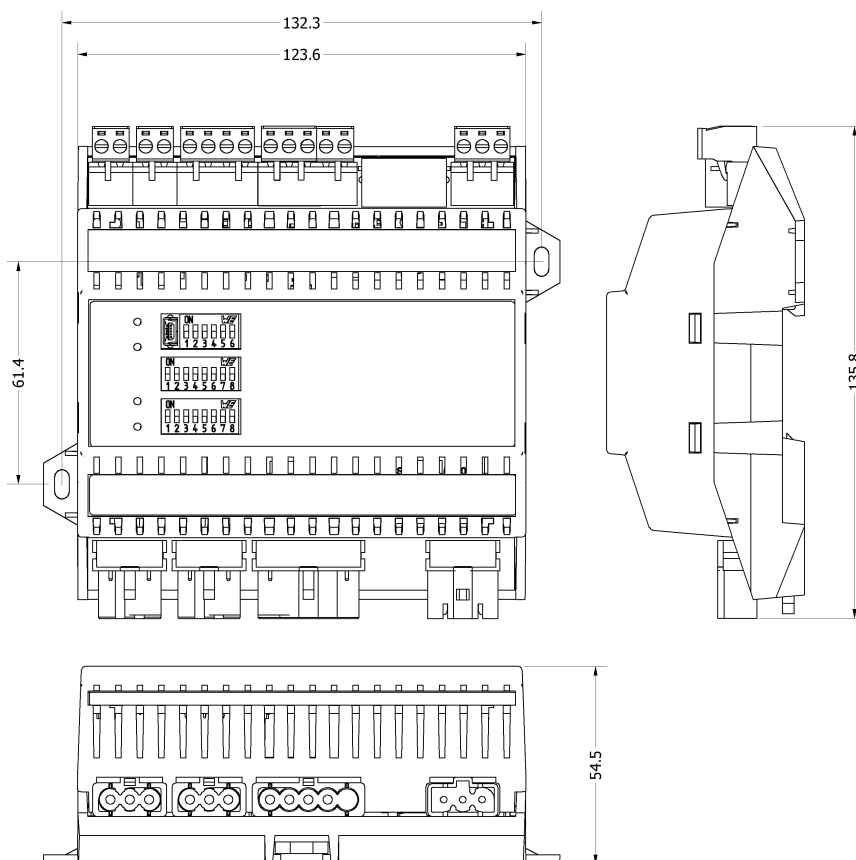


iSMA Configurator - configuration tool for non-programmable iSMA CONTROLLO devices

## 2D



## 2D-WD



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