

Intelligent Building Solutions

Installation Manual



CDM 2010 D DIMMER UNIT

- for incandescent light bulbs
- DIN-rail mounting

CIB-tech

Introduction

The CDM 2010 D is an incandescent light bulb dimming device, part of the CIB-tech automation system.

Additional equipment required

1. Functional CIB-tech system

A minimal number of essential CIB-tech components to make a functional CIB-tech system¹

2. Command button (optional)

Simple normally-open type (contact is closed when button is pressed) push button. Most types of flush mounted or DIN-rail mounted simple push buttons are suitable²

Technical Specifications

Electrical characteristics

● Power Supply

The CDM 2010 D functions as a node in a CIB-tech system, being powered from the CIB-tech system's power supply via the CIB-tech connectors.

- Operating voltage range: 20 to 28V DC (nominal 24V DC)
- Supply current
 - Standby current : 17mA
 - Maximum current: 40mA

● Power rating (for dimmer output)

- Rated voltage: 230V AC
- Rated current: 1,3A
- Maximum load: 300W

NOTE: Only for incandescent light bulbs.

● Signal Input

- Command button: N.O. with voltage free contacts

Mechanical characteristics

The CDM 2010 D has a standard 2-module wide enclosure for M36 type DIN-Rail

- Dimensions: 102mm W x 35mm L x 60mm D
- Weight: 90g

Environmental characteristics

- Operating temperature: -10°C to 85°C
- Storage temperature: -25°C to 100°C

NOTE: The CDM 2010 D device needs to dissipate some internally generated heat, therefore the device should not be used at full load, in ambient temperatures greater than 35°C.

1 See "CIB-tech installation manual" for details.

2 For din-rail type push-button, IBS product BSS 10 DM or BSD 10 DM might be used.

Key Features

- Digitally controls light intensity of incandescent light bulbs in 100 steps
- Single push button is required to dim up / down and switch on / off
- Maintains previously set dim level when switched off;
- Soft on / off and dim transitions
- Output state and level remotely controllable via the CIB-tech system
- Internal bi-color LED, indicating the output state (green: off / red: on)

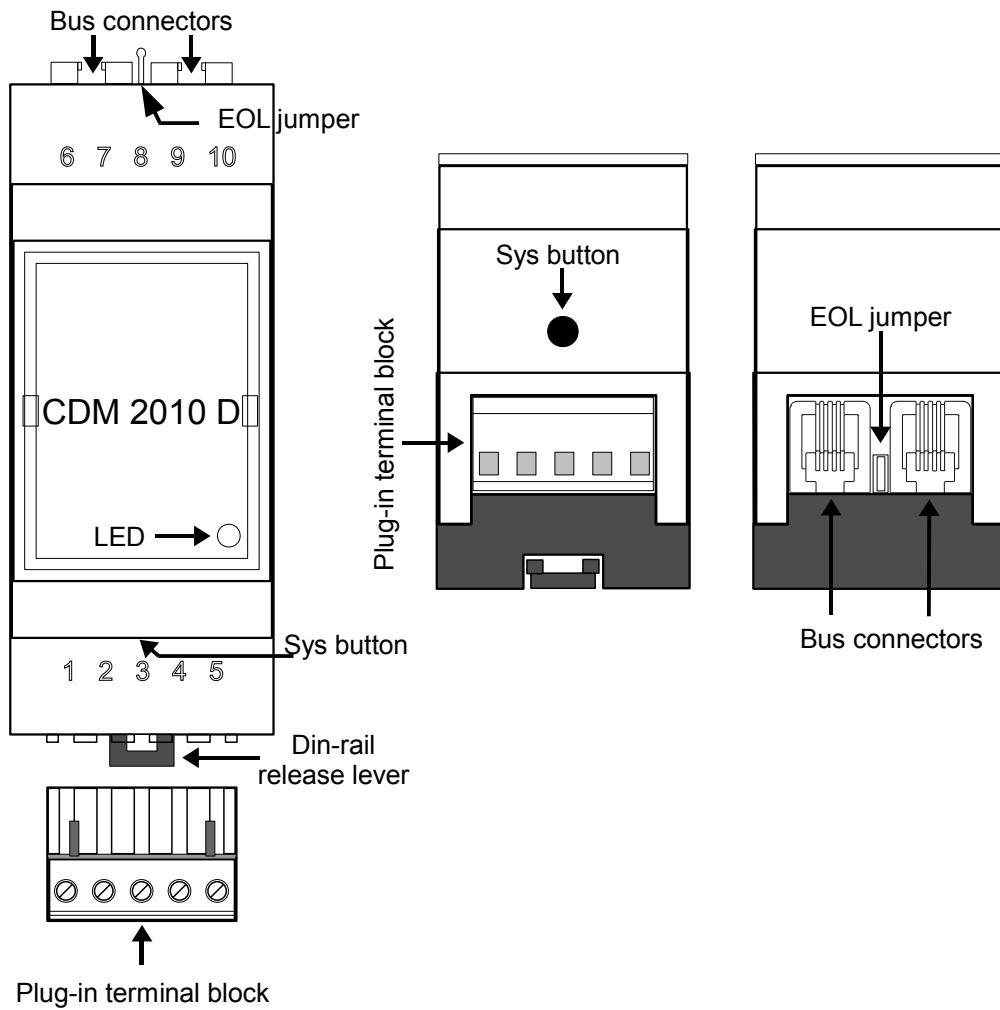
Installation

The CDM 2010 D is meant to be installed on a standard M36 type DIN-Rail.

Part description

- **Bus connectors:**
 - 4P4C modular jack connectors for CIB-tech connection¹
- **Sys button:**
 - pushbutton for CIB-tech system configuration
- **EOL jumper:**
 - CIB-tech system's End Of Line jumper¹;
- **LED:**
 - indicator LED for output state (green: off / red: on);
- **Din-rail release lever:**
 - lever for removing the device from the M36 DIN-Rail
- **Connector type terminal block:** terminals for connecting external devices
 1. Push button – Common contact
 2. Push button – Normally open contact
 3. Do not connect
 4. Dimmer contact 1
 5. Dimmer contact 2

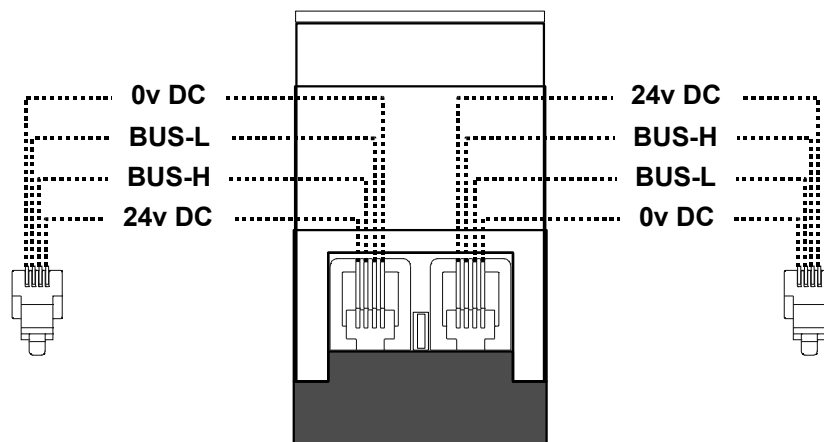
¹ See “CIB-tech installation manual” for details.



Wiring diagrams

Connection to CIB-tech system:

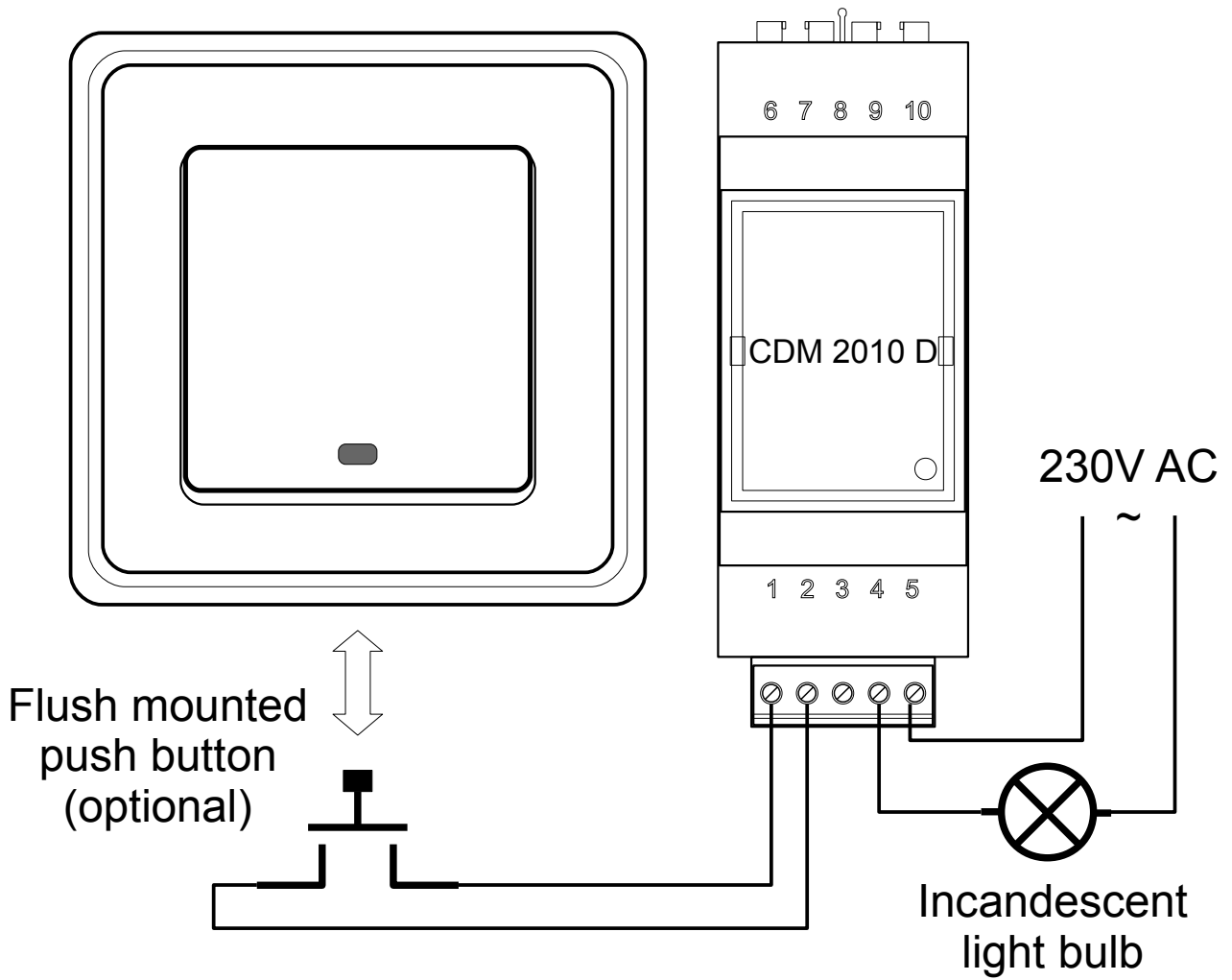
Use the CDM 2010 D device's two 4P4C modular jack connectors to connect it to the CIB-tech systems (chain like) bus. Do not forget to remove the EOL jumper if the device is not the last element of the chain¹



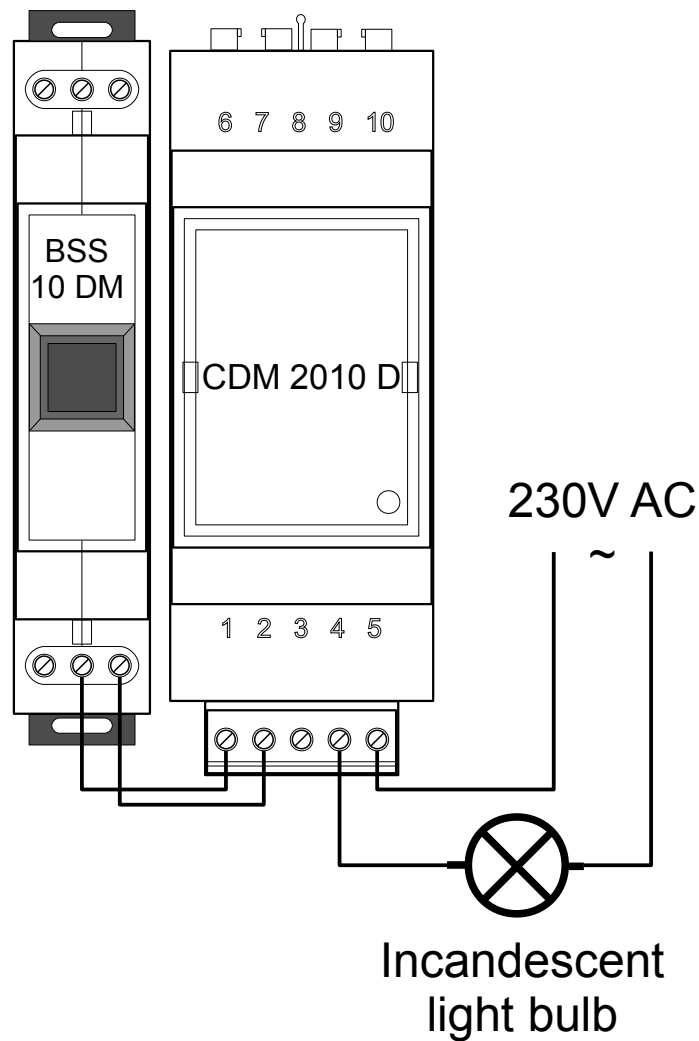
¹ See "CIB-tech installation manual" for details.

Connecting the input devices

Typical connection:



Connection example with local, DIN-Rail mounted, push button :



NOTE: If two CDM 2010 D are connected to a double push button, always the terminal block contact 1 of each CDM 2010 D shall be connected together (to the common contact of the double push button), and never the terminal block contact 2.

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