

# Intelligent Building Solutions

## Installation Manual



## CSW 2010 DRB POWER SWITCH UNIT

- Bistable output
- DIN-rail mounting

**CIB-tech**

## Introduction

The CSW 2010 DRB is a general purpose power switch, with bistable, voltage-free relay output, 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 system<sup>1</sup>

#### 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 suitable<sup>2</sup>

## Technical Specifications

### Electrical characteristics

#### ● Power Supply

The CSW 2010 DRB 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: 50mA

#### ● Power rating (voltage-free relay output)

- Rated AC voltage: 250V AC
- Rated DC voltage: 30V DC (resistive load)
- Rated current: 8A

#### ● Signal Input

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

### Mechanical characteristics

The CSW 2010 DRB has a standard 2-module wide enclosure for M36 type DIN-Rail

- Dimensions: 102mm W x 35mm L x 60mm D
- Weight: 95g

### Environmental characteristics

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

<sup>1</sup> See "CIB-tech installation manual" for details.

<sup>2</sup> For DIN-rail type push-button, IBS product BSS 10 DM or BSD 10 DM might be used.

## Key Features

- Bistable relay output: maintains contact state in case of network power failure
- Programmable output type: N.O. (normally open) or N.C. (normally closed)
- Two functional output modes: bistable or monostable;
- Programmable stay-on time in monostable mode
- Scheduled turn on / turn off possibility
- Output state remotely controllable via the CIB-tech system
- Internal bi-color LED, indicating the output state (green: off / red: on)

## Installation

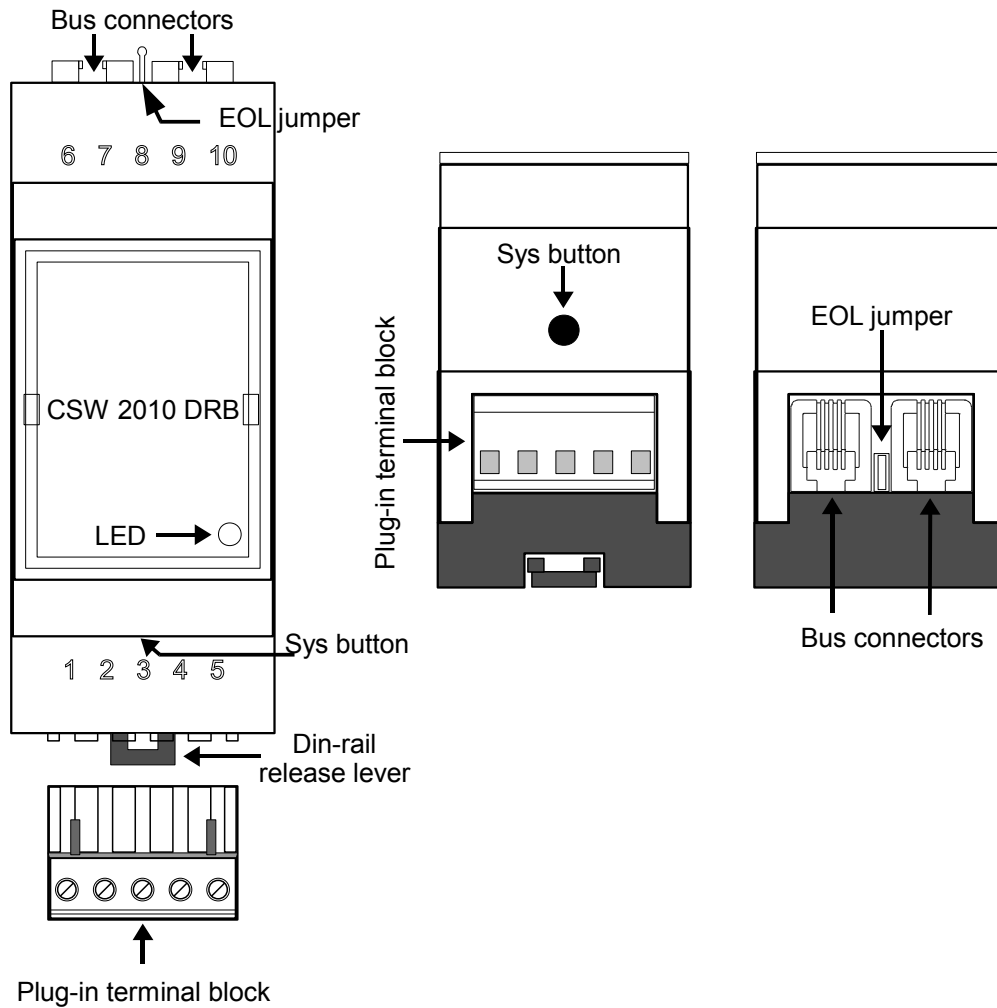
The CSW 2010 DRB is meant to be installed on a standard M36 type DIN-Rail.

### Part description

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

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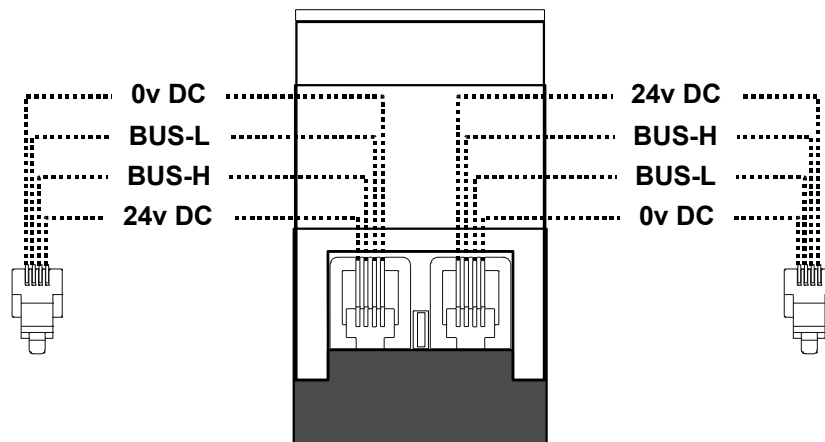
<sup>1</sup> See “CIB-tech installation manual” for details.



## Wiring diagrams

### Connection to CIB-tech system:

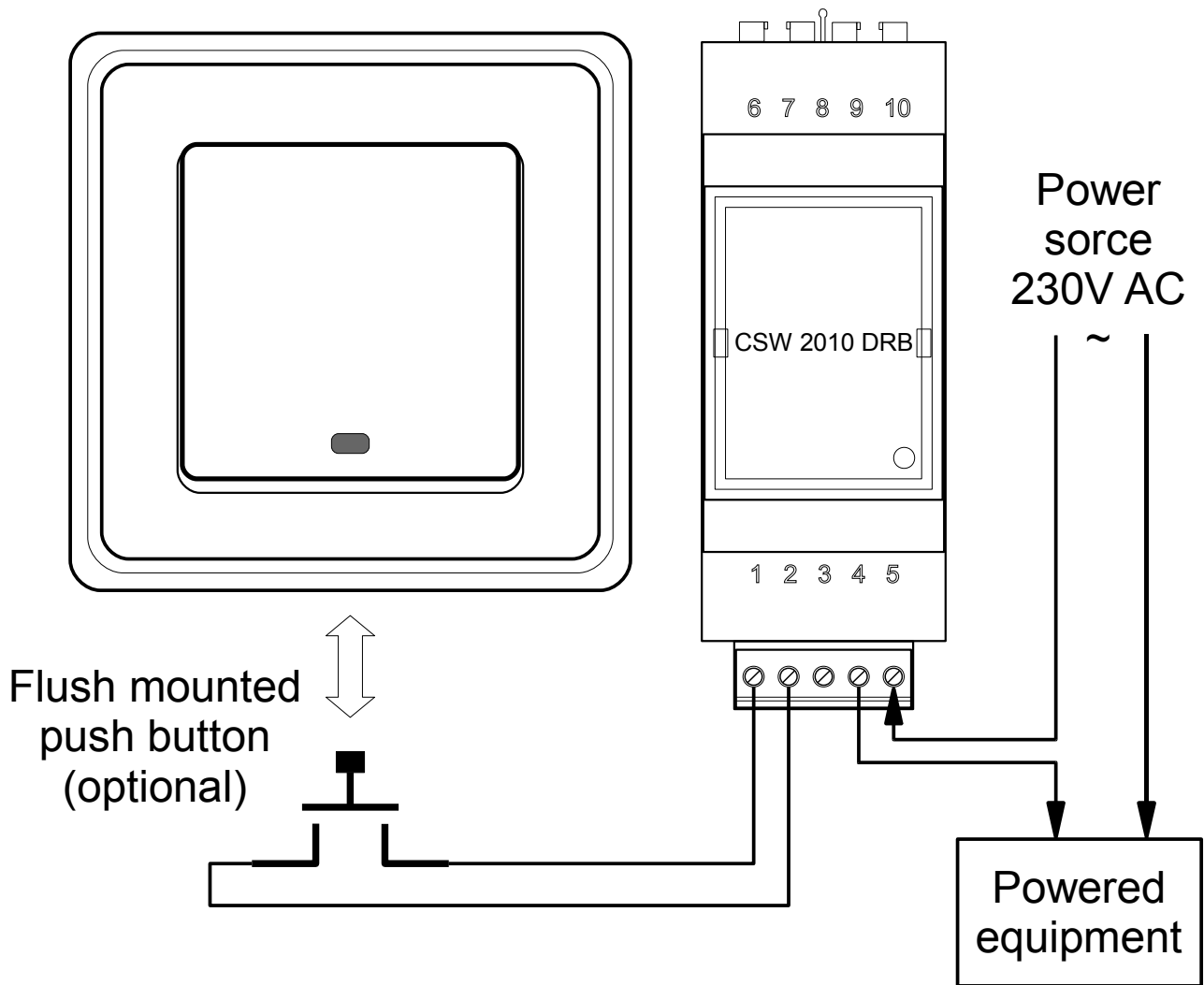
Use the CSW 2010 DRB device's two 4P4C modular jack connectors to connect it to the CIB-tech systems (chain like) bus. Do not forget to remove the EOL jumper if the device is not the last element of the chain<sup>1</sup>



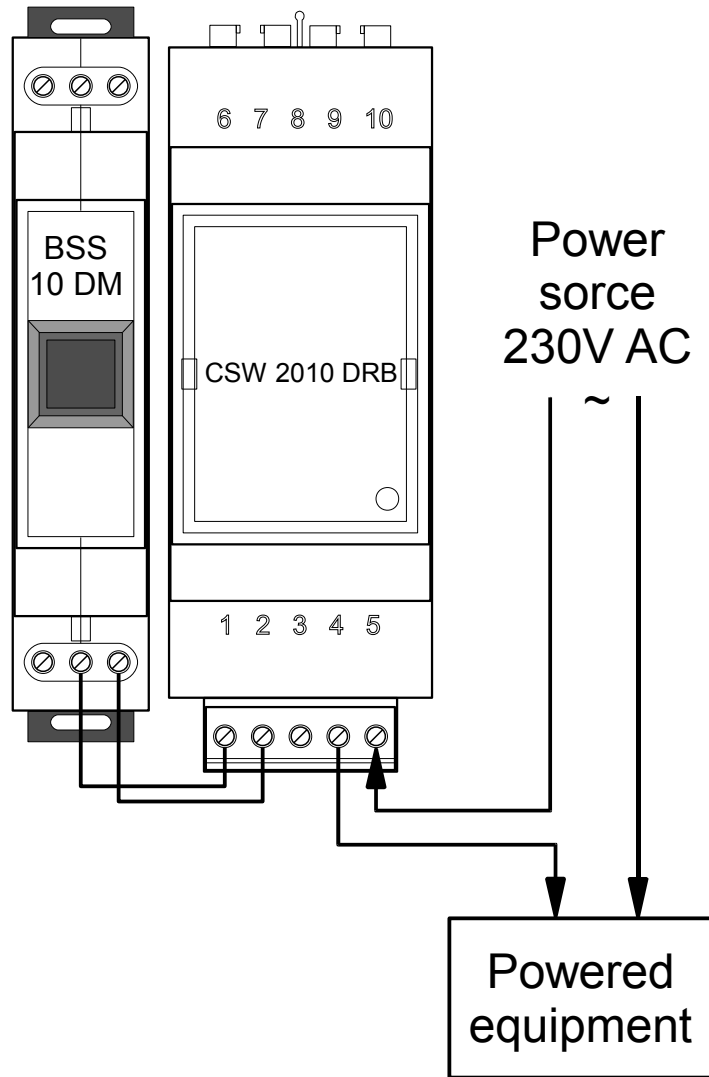
<sup>1</sup> See "CIB-tech installation manual" for details.

## Connecting the input devices

Typical connection:



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



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

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