

Intelligent Building Solutions

Installation Manual



CSW 2010 SRB POWER SWITCH UNIT

- Bistable output
- Surface mounting

CIB-tech

Introduction

The CSW 2010 SRB 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 system¹

2. Command button (optional)

Simple normally-open type (contact is closed when button is pressed) push button. Most types of flush mounted push buttons are suitable.

Technical Specifications

Electrical characteristics

● Power Supply

The CSW 2010 SRB functions as a node in a CIB-tech system, being powered from the CIB-tech system's power supply via the CIB-tech connector.

- 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 SRB has a white, flat, wall-mounted enclosure with ventilation slots.

- Dimensions: 71mm W x 71mm L x 28mm D
- Weight: 90g

Environmental characteristics

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

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

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 SRB is meant to be installed on a standard 60mm pattress box or on any flat surface such as a wall.

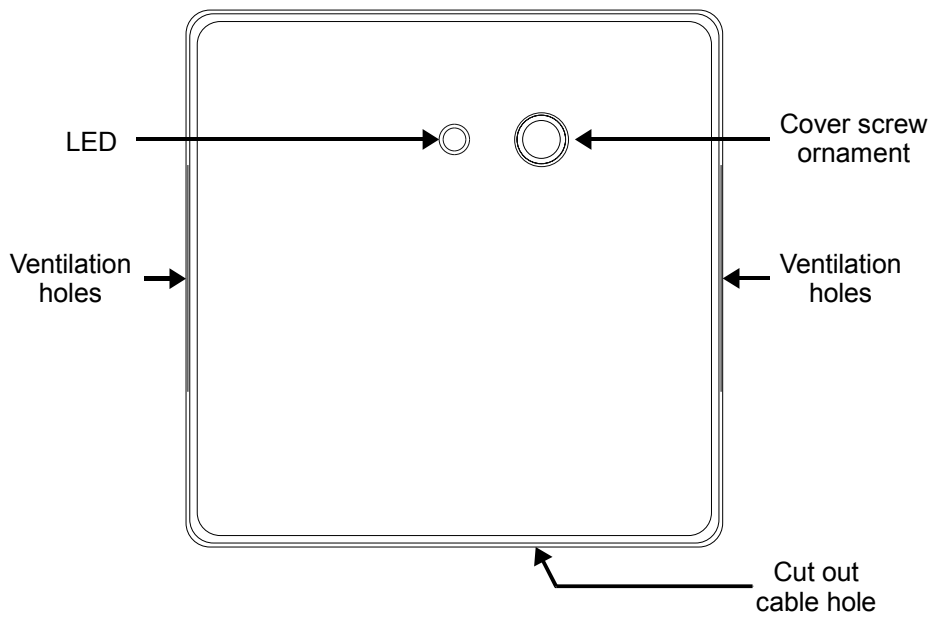
To install the device:

- remove the cover screw ornament, unscrew the cover screw and remove the top cover of the device;
- pull the cables through the cable hole on the base of the device or cut out the side cable hole;
- mount the base of the device via the two mounting holes;
- connect the wires to the device (see connection diagrams below);
- replace the top cover of the device, tighten the cover screw and replace the screw ornament.

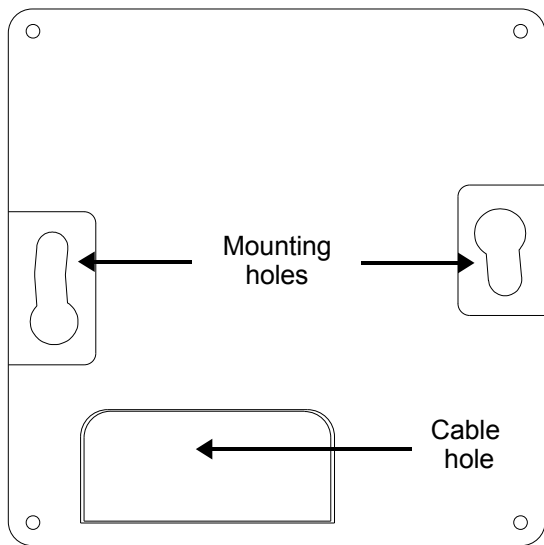
Part description

- **LED:** indicator LED for output state
 - green : off
 - red : on);
- **Cover screw:**
 - fastening the top cover of the device
 - Cover screw ornament: plastic ornament hiding the cover screw
- **Ventilation slots:**
 - slots on the sides of the enclosure
- **Cable hole:**
 - cable entry hole on the bottom of the device;
- **Cut out cable hole:**
 - location where the plastic box can be cut out for an alternate cable entry point. Note that this is only recommended if bottom cable entry is not possible;
- **Mounting holes:**
 - holes for mounting the device on a standard 60mm pattress;

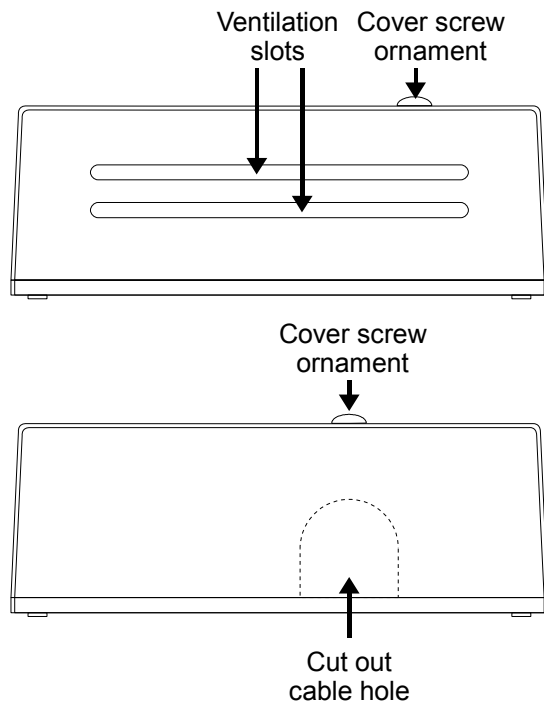
Top view



Bottom view

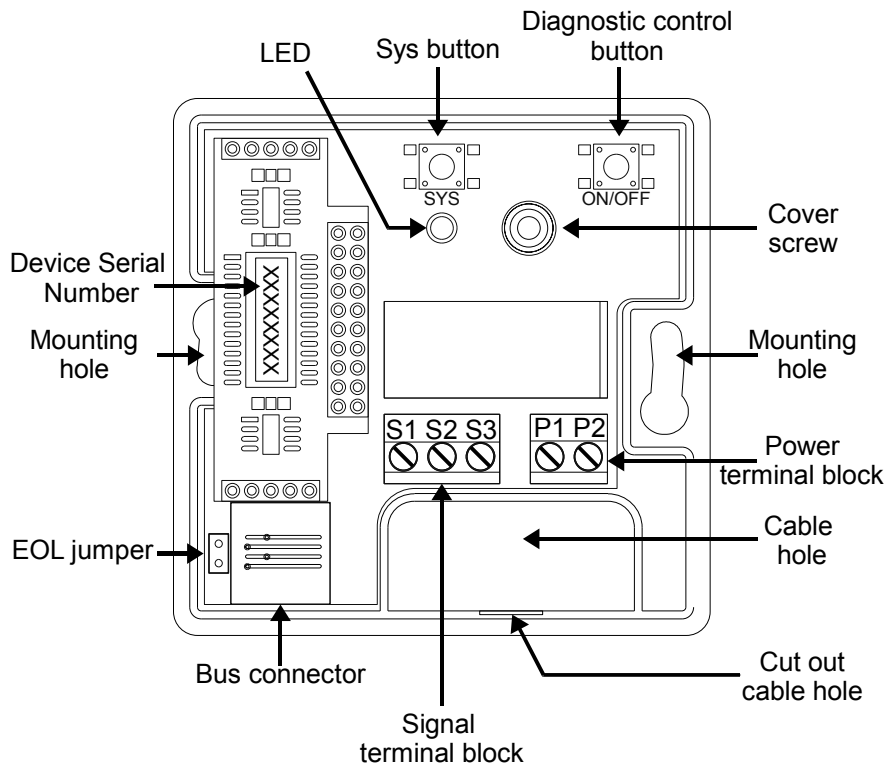


Side view



- **Sys button:**
 - pushbutton for CIB-tech system configuration
- **Local control button:**
 - diagnostic on/off pushbutton,
 - connected in parallel with the external control button
- **Bus connectors:**
 - 4P4C modular jack connectors for CIB-tech connection¹
- **EOL jumper:**
 - CIB-tech system's End Of Line jumper¹
- **Device serial number:**
 - Unique serial number; used to identify every CIB-tech device, this number is also electronically encoded in the device
- **Signal terminal block:** control button input
 - S1. Push button – Common contact
 - S2. Push button – Normally open contact
 - S3. Do not connect
- **Power terminal block:** voltage-free relay contacts
 - P1. Relay contact 1
 - P2. Relay contact 2

Top view with removed cover



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

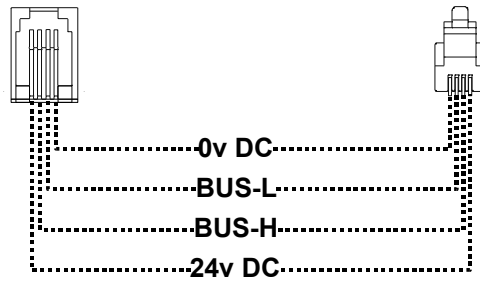
Wiring diagrams

Connection to CIB-tech system:

Use the CSW 2010 SRB device's 4P4C modular jack connector to connect it to the CIB-tech systems bus. This device is meant to be the last element of a CIB-tech bus line.

If the device must be used as not the last element in the CIB-tech systems (chain-like) bus, a Bus Linker² can be used. In such situations the EOL jumper must be removed¹

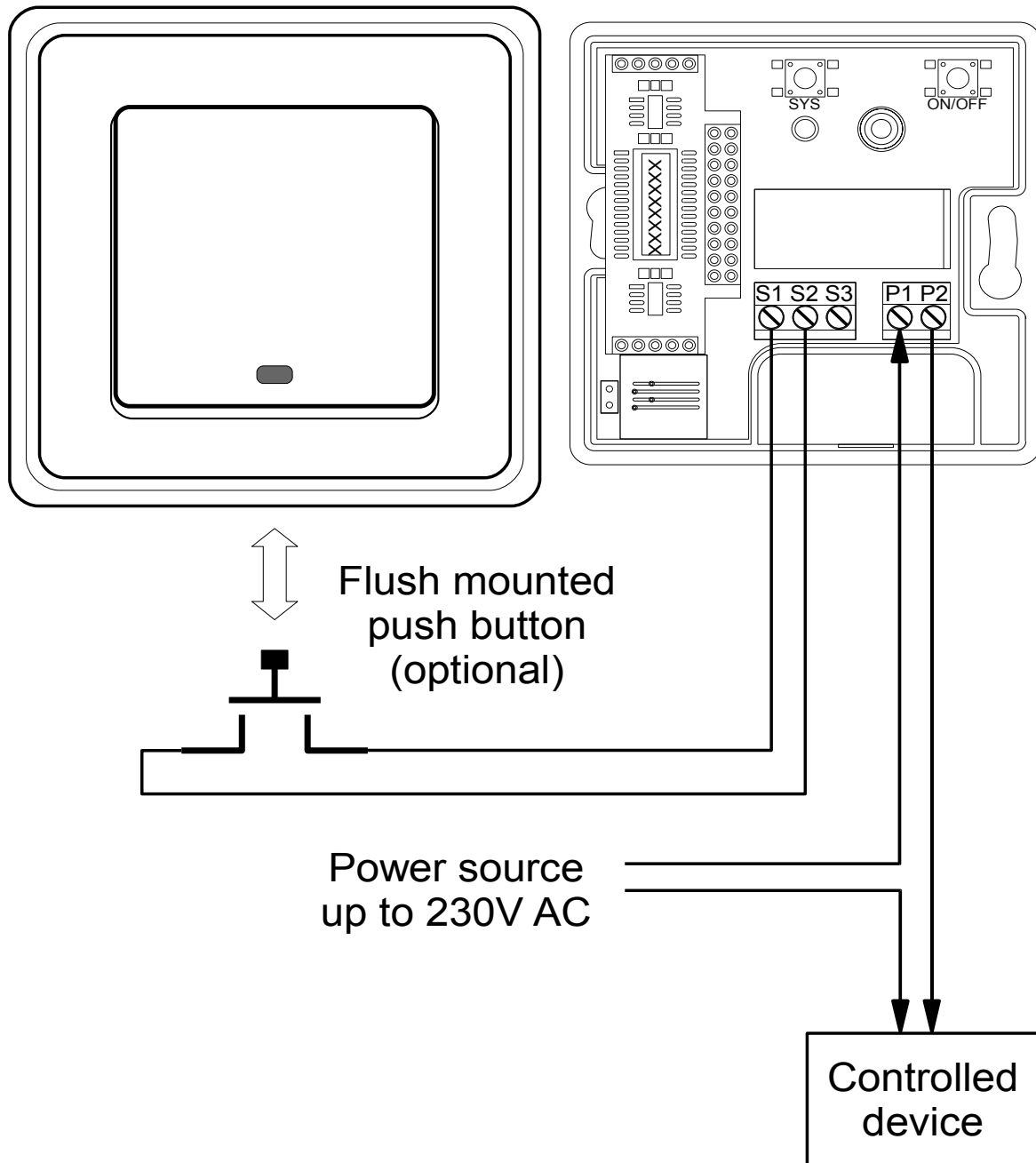
BUS connection



² IBS product BL-1C2RJ92RJ or compatible device can be used. See IBS product list for details.

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

Typical connection:



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

Document Version 1.0

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