Intelligent Building Solutions

Installation Manual

CSW 2012 DR
QUAD POWER SWITCH UNIT

- DIN-rail mounting

CIB-tech

The CSW 2012 DR is a general purpose power switch, with 4, voltage-free relay outputs, 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[1]

2. Command buttons (optional)
Simple normally-open type (contact is closed when button is pressed) push buttons. Most types of flush mounted or DIN-rail mounted simple push buttons are suitable[2]

T e c h n i c a l   S p e c i f i c a t i o n s

Electrical characteristics

● **Power Supply**
The CSW 2012 DR 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:	17.5 to 28V DC (nominal 24V DC)
○ Supply current (at nominal voltage)	
■ Standby current :	13mA
■ Maximum current:	50mA

● **Power rating (4 voltage-free relay outputs)**

○ Rated AC voltage:	250V AC (non inductive load)
○ Rated DC voltage:	30V DC (resistive load)
○ Rated current:	6A

● **Signal Input**

○ 4 command buttons:	N.O. with voltage free contacts

Mechanical characteristics

The CSW 2012 DR has a standard 3-module wide enclosure for M36 type DIN-Rail

● Dimensions:	96mm W x 52mm L x 60mm D
● Weight:	135g

Environmental characteristics

● Operating temperature:	-10ºC to 85ºC
● Storage temperature:	-25ºC to 100ºC

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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.

- N.O. (normally open) and N.C. (normally closed) output for all outputs.
- Two functional output modes, individually selectable for each output: bistable or monostable;
- Programmable stay-on time in monostable mode, individually selectable for each output
- Scheduled turn on / turn off possibility, individually selectable for each output
- Output states remotely controllable via the CIB-tech system
- Internal bi-color LED, indicating the output state (green: all outputs off / red: at least one outputs on)
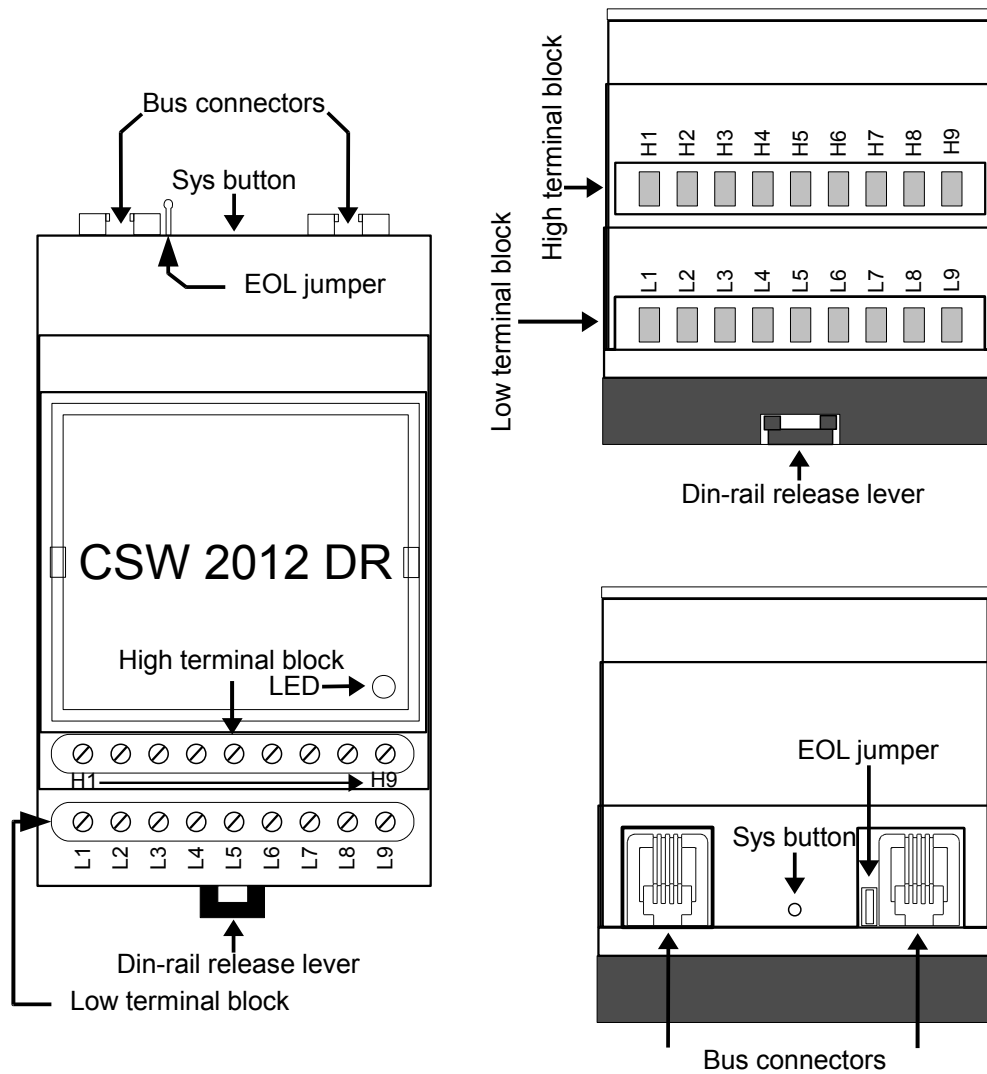
I n s t a l l a t i o n

The CSW 2012 DR is meant to be installed on a standard M36 type DIN-Rail.

Part description

- **Bus connectors:**
  - ○ 4P4C modular jack connectors for CIB-tech connection[1]
- Sys button:
  - ○ pushbutton for CIB-tech system configuration
- **EOL jumper:**
  - ○ CIB-tech system's End Of Line jumper[1]
- **LED:** indicator LED for output state
  - ○ green: off
  - ○ red: on
- **DIN-rail release lever:**
  - ○ lever for removing the device from the M36 DIN-Rail

- **Low terminal block:** terminals for connecting external devices
  - L1. Relay 1 – NO (normally open) contact
  - L2. Relay 1 – C (common) contact
  - L3. Relay 1 – NC (normally closed) contact
  - L4. Push button1 – Normally open contact
  - L5. Push buttons – Common contact for all push buttons (internally connected to H5)
  - L6. Push button2 – Normally open contact
  - L7. Relay 2 – NC (normally closed) contact
  - L8. Relay 2 – C (common) contact
  - L9. Relay 2 – NO (normally open) contact

- **High terminal block:** terminals for connecting external devices
  - H1. Relay 3 – NO (normally open) contact
  - H2. Relay 3 – C (common) contact
  - H3. Relay 4 – NC (normally closed) contact
  - H4. Push button 3 – Normally open contact
  - H5. Push buttons – Common contact for all push buttons (internally connected to L5)
  - H6. Push button 4 – Normally open contact
  - H7. Relay 4 – NC (normally closed) contact
  - H8. Relay 4 – C (common) contact
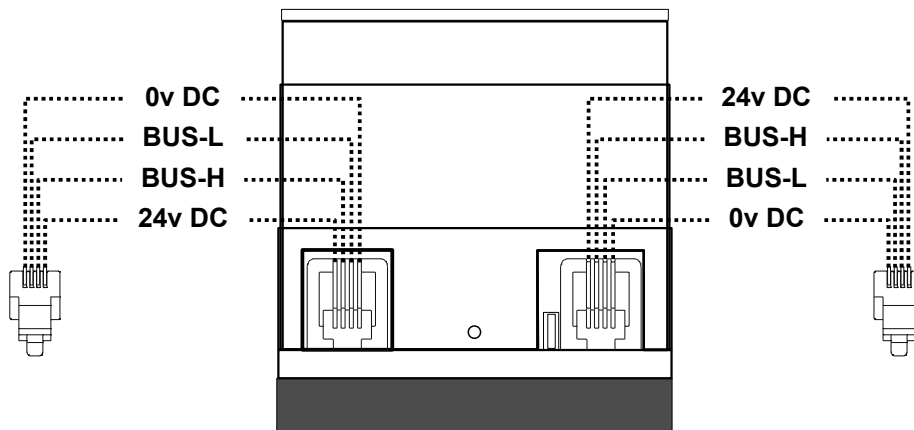 - H9. Relay 4 – NO (normally open) contact

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

Bus connectors

Sys button

EOL jumper

High terminal block

H1	H2	H3	H4	H5	H6	H7	H8	H9

Low terminal block

L1	L2	L3	L4	L5	L6	L7	L8	L9

Din-rail release lever

CSW 2012 DR

High terminal block

LED →

H1 ──────────► H9

L1 L2 L3 L4 L5 L6 L7 L8 L9

Din-rail release lever

Low terminal block

EOL jumper

Sys button

Bus connectors

Wiring diagrams

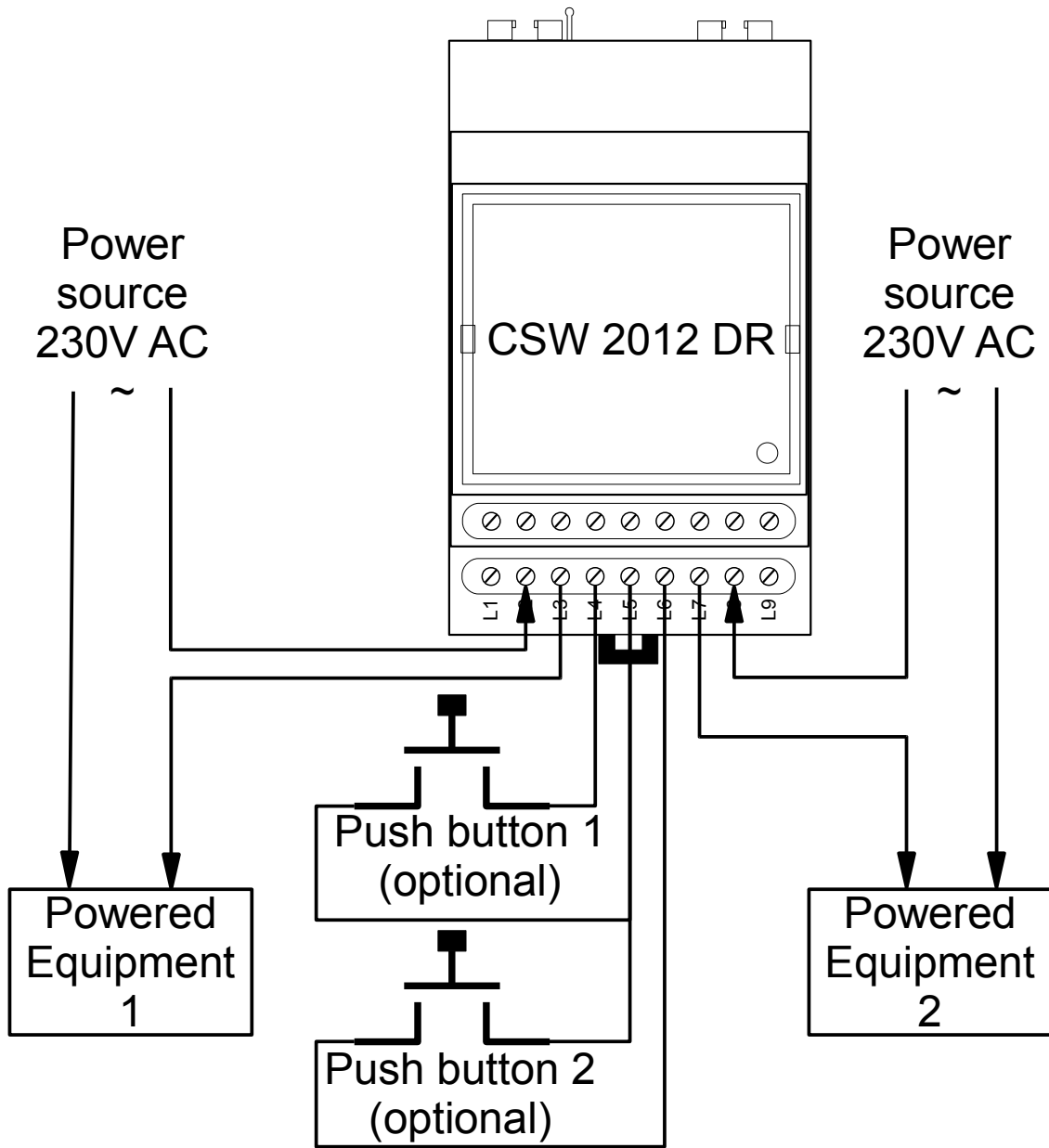### Connection to CIB-tech system:

Use the CSW 2012 DR 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[1]
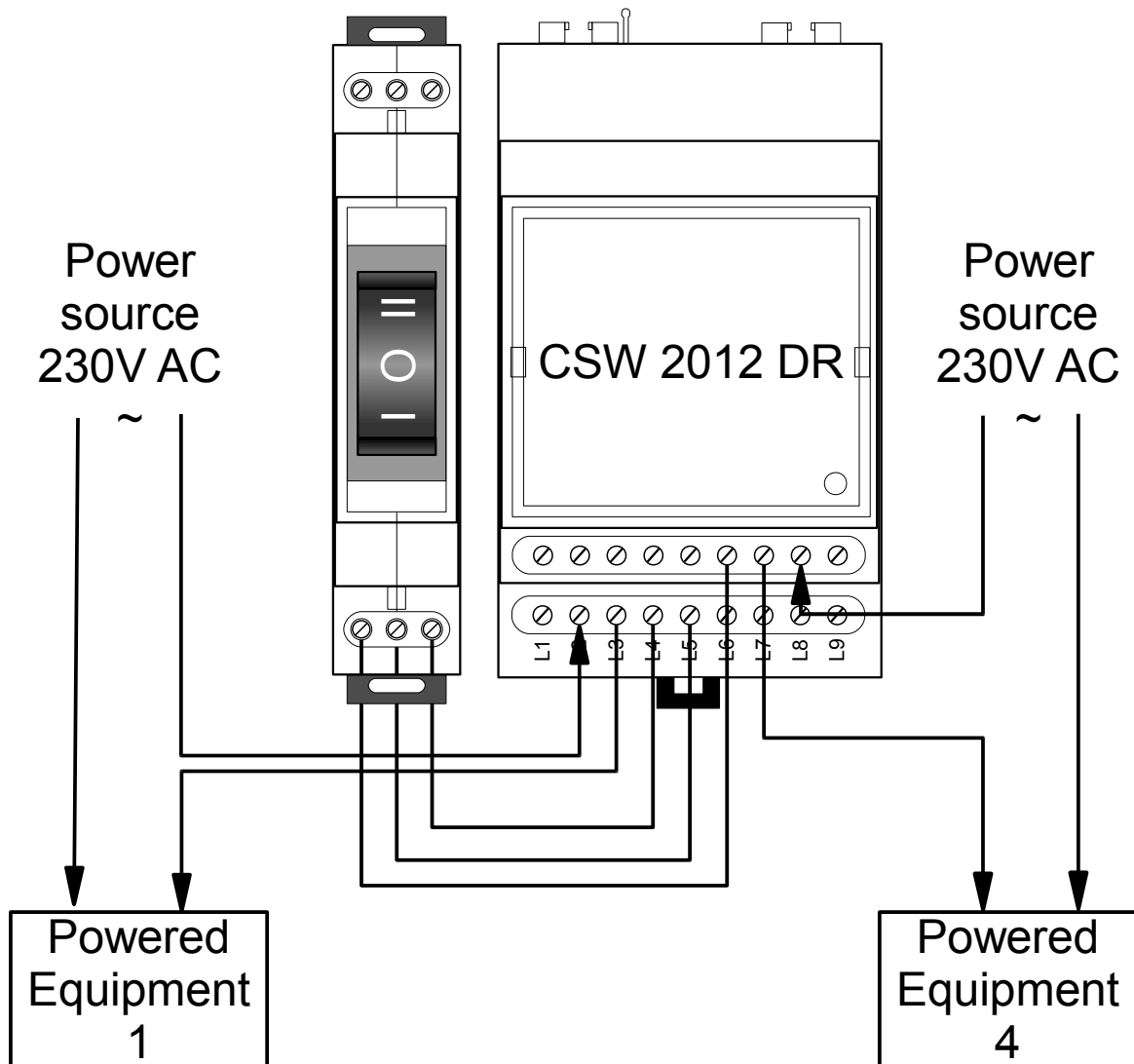
0v DC   24v DC

BUS-L   BUS-H

BUS-H   BUS-L

24v DC   0v DC

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

Connecting the input devices

Connection example for connecting devices to output 1 and 2.

Power
source
230V AC
~

CSW 2012 DR

Power
source
230V AC
~

Powered
Equipment
1

Push button 1
(optional)

Push button 2
(optional)

Powered
Equipment
2

Connection example with local, DIN-Rail mounted, double push button. Devices connected to output 1 and 4:

Technical Support:
http://www.ibs-smarthouse.com/
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