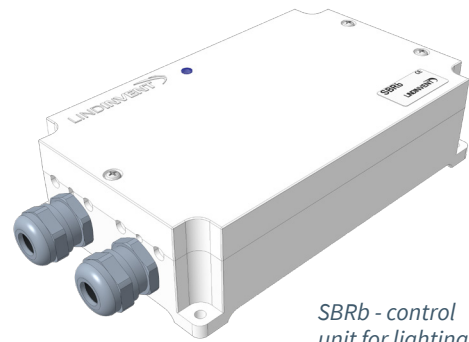


## SBRb - CONTROL UNIT FOR LIGHTING (CAN)



*SBRb - control unit for lighting.*

### INTRODUCTION

SBRb is a control unit for lighting with CAN and Bluetooth® connection.

### FUNCTION

- Adds flexibility. The control unit is used to link additional lighting to lighting zones.
- Can switch lighting on and off via an external occupancy detector, alternatively via another control unit in the lighting zone or directly via a push button.
- Eliminates power spikes at the moment of switching on and thus protecting the buildings cable network from disturbances.
- Can log switchings and time illuminated for follow-up.
- Connected via node ID to a network (CAN) for communication with a parent system and other controllers.

#### Configuration of lighting control

The desired lighting function and times for turning on and off are set by login to SBRb.

#### Lighting zones

With SBR, lighting can be configured to the desired lighting zone. If any of the light fittings in a lighting zone is activated, all lights in the same zone are turned on.

#### Service periods

LOGGING AND DISPLAY OF THE NUMBER OF SWITCHINGS AND DURATION OF ILLUMINATION GIVES A BASIS FOR SERVICE ACTIONS.

### USER INTERFACE

- Equipped with Bluetooth® for communication via mobile application LINDINSIDE.
- Access via LINDINSPECT® and the software module RemoteSDU.

LINDINSPECT® is Lindinvent's web-based tool, installed on Lindinvent's central unit, for coordinated optimization, administration, and visualization of control units and supplementary systems for climate management at workplaces.

### TEKNISKA SPECIFIKATIONER

#### General

Dimension (mm): (176+20)x105x52 (LxBxH)  
Lid with LED-pipe for exposure of the RGB LED.

#### Material

Encapsulation: Polystyren  
PCB: FR4  
Net weight: 0,3 kg

#### Colour

Encapsulation: Wight, RAL9003  
Cable glands: Light grey, RAL7035

#### IP class

Covering complies with IP53.

#### Temperature limits:

Operation: 10°C till 40°C; <85% RF  
Storage: -20°C till 50°C; <90% RF

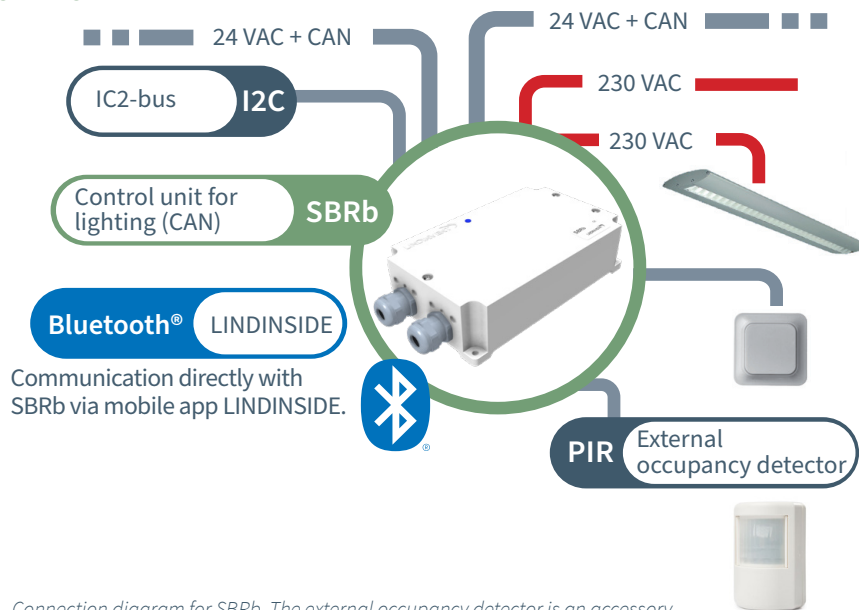
#### Electrical system

Supply voltage: 24 VAC  
Capacity: 1,8 VA  
Electrical load: Maximum 3,0 A  
Cabel glands for 230 VAC (Size): M16  
Complies with EMC and the Low Voltage Directive.

#### Connectors

2 x connector (Yellow) for 24 VAC + CAN bus.  
1 x connector for bush button.  
1 x connector for external occupancy detector supporting eigther 5 VDC, 15 VDC or 24 VAC supply voltage.  
1 x connector for I2C bus.  
Digital out: Indicates status. Not configurable.  
1 x Relay output: Potential free, NC, 230 VAC for lighting.  
Bluetooth® 2.4 GHz for radio communication.

## CONNECTION DIAGRAM



Connection diagram for SBRb. The external occupancy detector is an accessory.

## LIGHTING FUNCTIONS

It can, like a room climate controller, be set to control lighting according to one of the following functions:

- Light on; Lighting on. Used in testing
- IR; turns on and off only by PIR (presence detection)
- IR+button; on and off lighting via PIR or button
- IR+button OFF; On and off by PIR. The button switch is only for turning off
- Button; only button for on and off
- Lights off; lights off
- Button + IR OFF; switch on and off via button, IR only for switching off
- IR+zoneOnOff; can turn on and off via IR or lighting zone (support from SBRb version B02)

## ADDITIONAL PRODUCT DOCUMENTATION FOR SBRb

Documents can be accessed at [www.lindinvent.com](http://www.lindinvent.com)

| Documents                     | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Installation instruction      | Fastening via external screw holes. Removable cover for access to terminals. The external connection diagram is available on the inside of the encapsulation lid. The mounted cable glands are intended for 230 VAC. The encapsulation bottom part is prepared with thin sections of material where openings for other cables are made manually by cutting and breaking off material. The cables are then secured by attaching the lid. |
| Start-up instruction          | A guide on how to use the app LINDINSIDE to start-up commissioning.                                                                                                                                                                                                                                                                                                                                                                     |
| Maintenance instruction       | Regarded as maintenance-free.                                                                                                                                                                                                                                                                                                                                                                                                           |
| External connection diagram   | Shows how equipment is connected to SBRb.                                                                                                                                                                                                                                                                                                                                                                                               |
| Building material declaration | Material declaration assessed by Byggarbeteckningen in Sweden.                                                                                                                                                                                                                                                                                                                                                                          |
| End-user info                 | Not relevant for SBRb.                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Modbus list                   | The latest Modbus list for SBRb.                                                                                                                                                                                                                                                                                                                                                                                                        |
| AMA-text                      | Not available.                                                                                                                                                                                                                                                                                                                                                                                                                          |