Version A04

SBRb - CONTROL UNIT FOR LIGHTING (CAN)

SBRb - control unit for lighting.

INTRODUCTION

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

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 same lighting zone or directly via a push button.
- Eliminates power spikes at the moment of switching on and thus protects the building's 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 loging in 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 are activated, all lights in the same zone are turned on.

Service periods
The ability to log the number of interruptions and the ignition time can provide information for service or equipment replacement.

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 Lindinvet'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: 10ºC till 40ºC; <85% RF
Storage: -20ºC till 50ºC; <90% RF

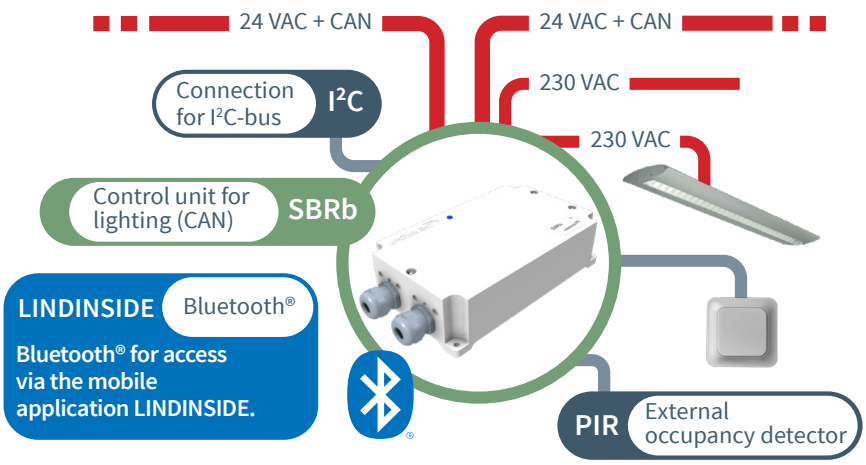
Electrical system

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
Connector for incoming 230 VAC
Connector for bush button
Connector for external occupancy detector, supporting 5 VDC, 15 VDC or 24 VAC supply voltage.
Indicator LED RGB+buzzer (digital out, not configurable). Shows status and answers calls from LINDINSIDE.
Relay output: Potential free, NC, 230 VAC for lighting
Connector for I2C bus
Bluetooth® 2.4 GHz for radio communication

CONNECTION DIAGRAM



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

LIGHTING FUNCTIONS

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

- Light on (0): lighting on. Used for testing.
- IR (10): turns on and off via own PIR or via presence in zone. Status shared with the zone.
- IR+button (11): turns on via the button; turns off ONLY when absent locally/zone. Status shared with the zone.
- IR+buttonA (12): turns on/off via button, turns off when absent locally/zone. Status shared with the zone.
- Button (13): turns on and off only with the button.
- Light off (31): lighting off.
- Button+IR off (35): turns on/off via button, turns off when absent locally/zone. Status NOT shared with zone.
- IR+zoneOnOff (46): turns on and off via own PIR or via presence in zone. Can handle different zones at the room and corridor level (supported by SBRb version B02).

ADDITIONAL PRODUCT DOCUMENTATION FOR SBRb

Documents can be accessed at 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 commisioning.
Maintenance instruction	Regarded as maintenance-free.
External connection diagram	Shows how equipment is connected to SBRb.
Building material declaration	Material declaration assessed by Byggvarubedömningen in Sweden.
End-user info	Not relevant for SBRb.
Modbus list	The latest Modbus list for SBRb.
AMA-text	Not available.