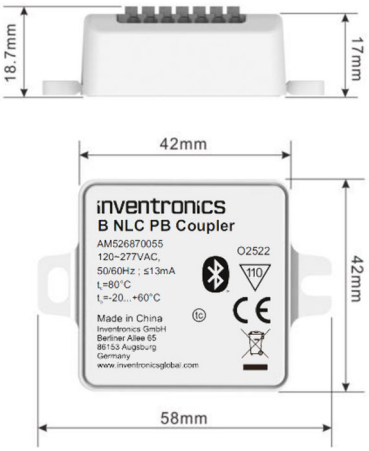
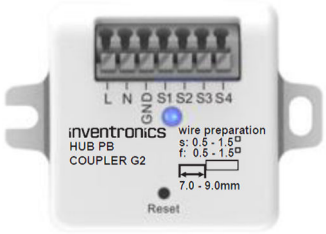
# Product data sheet: B NLC PB Coupler
# Push Button Coupler for HubSense®
## Bluetooth NLC

### Product family benefits

Support up to 4 potential free push buttons
Enable free selection of switch frames

### Areas of application
Open offices
Individual offices
Conference rooms
Classrooms
Storage and break areas
Stairways




### Benefits

Slim form factor to adapt to the flux boxes

Bluetooth NLC

Works with HubSense

### Approval marks
CE, Bluetooth,

Housing material: plastic

## Product Features

- Stand by power consumption <150mW
- 50000 h lifetime at tc max = 60°C
- Improved radio performance vs the previous generation
- Minimized thickness for a better installation in a flush box
- Common ground for easier cabling into the switches
- Wide input range 100- 277 Vac

## Electrical Specifications

| | Item | Value | Unit | Remarks |
|---|---|---|---|---|
| INPUT/ OUTPUT | Rated voltage | 120-277 | Vac | |
| | Average input current | 13 | mA | |
| | Power Consumption | <130 | mW | 2.4 - 2.483GHz |
| | Radio frequency | 2.4 | GHz | |
| | Max Tx Power | +8 | dBm | 4.884 mW |
| | Wireless protocol | | | Bluetooth NLC provided by SILVAIR |
| | Range | 20 | m | Line of sight |
| | Mounting | | | Built in |
| | Installations | | | In flush box |
| | Circuit breaker | 10A | | Type C |
| | Reset | | | Pressing pin |
| | LEDs indicator | | | Blue x 1, Red x 1 (pairing, connected & etc. indications) |
| ENVIRONMENT | Ambient temperature range $t_a$ | -20 …+60 | °C | |
| | Maximum case temperature $t_c$ | 80 | °C | (50,000 hrs lifetime at max. Ta = 50°C / Tc = 60°C) |
| | Max. case temp. in fault condition | 110 | °C | |
| | Storage temperature range | -20 …+90 | °C | |
| | Operating humidity | 0 … 90 | % | |
| | Storage humidity | 0 ... 95 | % | Not condensing |
| | Environment rating | Indoor | | |
| | IP rating | IP 20 | | |
| | Expected lifetime | 50'000 | h | At max tc=70°C |
| DIMENSIONS AND WEIGHT | Length | 58 (42) | mm | (removing the brackets) |
| | Wide | 42 | mm | |
| | Heigh | 18,7 (17) | mm | (excluding terminals heigh) |
| | Terminals | 7 | | Max 0,75 $mm^2$ |
| | L | | | Line |
| | N | | | Neutral |
| | S1 | | | ON / Dim Up |
| | S2 | | | OFF / Dim Down |
| | S3 | | | Warm color temperature |
| | S4 | | | cool color temperature |
| | COMM | | | Common |
| | Color | White | | RAL 9003 |
| | fixing hole dimension | M4 | mm | |
| | Product weight | 30 | g | |
| | Wire preparation length, input side | 8 … 10 | mm | |
| | Cable cross section, input side | 0.2…0.75 | $mm^2$ | |
| | Maximum allowed cable length | 3 | m | |
| STANDRDS | **CE**<br>**IEC/EN 60669-1**<br>**IEC/EN 60669-2-1**<br>**EN 300328**<br>**EN 301489-1**<br>**EN 301489-13**<br>**EN 301489-17**<br>**IEC/EN 61000-3-2**<br>**IEC/EN 61000-3-3**<br>**IEC/EN 61000-4-2**<br>**IEC/EN 61000-4-3**<br>**IEC/EN 61000-4-4**<br>**IEC/EN 61000-4-5** | | | |
| | **RoHS & REACH compliance** | | | |

## Note well:

The terminals S1 to S4 are not insulated from the mains voltage. The installer should ensure that appropriate push buttons are used to maintain the safety of the end user.

## Additional product information

-By integrating the device into a casing, the wireless range could be affected by metal surfaces. Therefore, the wireless range needs to be verified after integration.
-The device could be reset to factory default by magnet (cfr User Instruction)
-The status LED of the device indicates following Network status

Blue LED Indicator:
• Success connection: LED indicator flashes 2s at once
• No connections: LED indicator flashes 0.3s at once
Reset to factory settings:
LED indicator flashes 1s at once, then quickly flashes and disappears
Red LED Indicator:
• Warm up: LED indicator disappears after 60s
• When PIR is triggered, the LED indicator quickly flashes at once; continuous triggered, LED indicator flashes every 1s at once

-The device has passed successfully the SILVAIR Testing process.
-The device can be put into operation using the HubSense Commissioning Tool (https://platform.hubsense.eu), subject to prior acceptance of the Terms of Use and the Privacy Policy.
-Inventronics may terminate or suspend the use of the HubSense Commissioning Tool at any time and for any or no reason in its sole discretion, even if access and use is continued to be allowed to others.
-The device complies with Bluetooth mesh Standard v1.0. It can also be used in 3rd party Bluetooth mesh network, that complies with this standard and that supports the mesh models of this device, and with certain 3rd party commissioning tools, that support the mesh models of this device. In order to ensure correct interoperability a verification with the 3rd party network components and the 3rd party commissioning tool is necessary in advance. Please contact Inventronics (support@inventronicsglobal.com) to receive the actual list of supported models for this device.
- Inventronics shall have no liability for any 3rd party commissioning tool and does not make any representations, express or implied, about the availability and/or performance of such commissioning tool.
- Inventronics shall have no liability for and does not make any representations, express or implied, about the connectivity of Inventronics Bluetooth NLC products with any other products, that have passed the SILVAIR Testing process

## ordering information

| Product type | EAN10 |
|---|---|
| B NLC PB Coupler | 6977078990967 |

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