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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
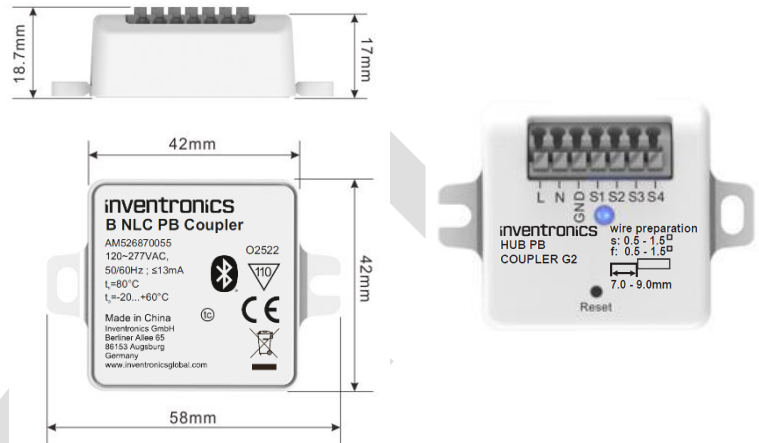
Bluetooth NLC

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

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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		Tpe 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	mm²	
	Maximum allowed cable length	10	m	
STANDRDS	**CE**			
	IEC/EN 60669-1			
	IEC/EN 60669-2-1			
	EN 300328			
	EN 301489-1			
	EN 301489-13			
	EN 301489-17			
	IEC/EN 61000-3-2			
	IEC/EN 61000-3-3			
	IEC/EN 61000-4-2			
	IEC/EN 61000-4-3			
	IEC/EN 61000-4-4			
	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.

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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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