

Wireless Base Unit with External Antenna

CARLO GAVAZZI

BH4-WBUA-230



smart-house transceiver for building automation applications

Easy to install in both old and new installations

Unlimited number of connected wireless switches BH4-WBUA-230

DIN-rail mounting

Range up to 100 m in open air

Easy to operate

External antenna

SUPPLY SPECIFICATIONS

Power supply AC types	Overvoltage cat. III (IEC60664)
Rated operational voltage through term. 21 & 22 230	230 VAC, ±15%
Frequency	45 to 65 Hz
Voltage drop-out	40 ms
Rated operational power	Typ. 3 VA

Power dissipation	3 W
Rated impulse voltage	230 4 kV
Dielectric voltage	
Supply – smart-house	4 kVAC (rms)

GENERAL SPECIFICATIONS

Power ON Delay	Typ. 2 s
Indication of	
Power ON	Green LED
smart-house signal	Yellow LED
Wireless communication ON	Green LED
Association	Red LED
Disable RF	Red LED
Environment	
Protection degree	IP 20
Pollution degree	3 (IEC 60664)
Operating temperature	-20°C to +50°C (-4° to + 122°F)
Storage temperature	-50°C to +85°C (-58° to +185°F)
Humidity (non-condensing)	20 to 80%
Mechanical resistance	
Shock	15 G (11 ms)

Vibration	2 G (6 to 55 Hz)
Dimensions	72 x 77 x 70 mm
Material	
(see "Technical information")	H4 housing
Antenna	The ANT 1 is used, but not included
Weight	250 g
Special conditions	If the wireless base unit is placed in a metal cabinet or another kind of metal installation, it might reduce its range. Therefore the antenna must be placed outside the cabinet or in open areas.

MODE OF OPERATION

The wireless Bxx-WLS4 switches are programmed as standard Fuga/Opus switches (but with no channel coding for I/O 5-8, as the leds automatically follow the buttons).

The communication between the Bxx-WLS4 wireless switch and the BH4-WBUA-230 base is established in the following way:

The used smart-house addresses of wireless devices are all programmed at the wireless device. The only "special" interaction regarding wireless devices is the association process. This process makes sure that your

wireless devices are not disturbed by the devices of your neighbour.

To associate a device with the base:

- 1) Press the "mode" button on the base. The association led lights up.
- 2) Press a button on the wireless device to be associated. - All leds on the device will light up for about 1 second.
- 3) Press the "mode" button on the base unit until both Association and disabled-leds are off. This indicates "normal operation".

If the connection from a wireless

device fails, alle leds will flash briefly after trying to communicate with the base unit three times.

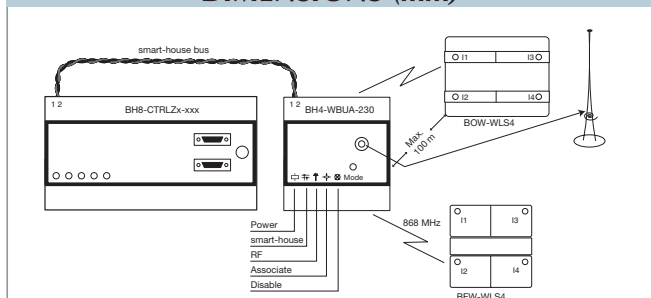
If a device associated with base A is in sight of bases A and B and you want to reassociate the device with base B, do the following:

- 1) Select the "Disabled" mode on base A.
- 2) Select the "Associate" mode on base B.
- 3) Press a button on the wireless device to be associated. - All leds on the device will light up for about onesecond.
- 4) Press the "mode" button on both

base units until both Association and disabled-leds are off. This indicates "normal operation".

The LEDs:
 The "Power" LED indicates that the unit is powered. (230Vac)
 The "smart-house OK" LED indicates detected smart-house signal.
 The "RF" LED indicates received wireless communication directed to this base.
 The "Associate" LED indicates the association mode.
 The "Disabled" LED indicates that the base ignores any wireless communications.

DIMENSIONS (mm)



INPUT SPECIFICATIONS

Wireless communication at 868 MHz