Keilton +autani

WPPA102 Series
Plug-and-Play Bluetooth Controller Node

WPPA102-BH4.B1

WPPA102-AUX.B1

WPPA102-Z10.B1

Description

The WPPA102 is an advanced Bluetooth control node engineered for seamless integration with Keilton+autani sensor ecosystems. Featuring an enhanced antenna design, it achieves a superior transmission range of up to 328 feet (100 meters), making it optimal for high-mounting applications and installations requiring extended inter-node distances. The IP66-rated enclosure ensures robust protection against dust and water ingress, while its white finish is specifically designed to aesthetically complement commercial indoor luminaires. Constructed from UV-rated polycarbonate material, the WPPA102 offers exceptional durability and resistance to environmental degradation, ensuring long-term performance in diverse lighting control applications.

Features

- Simplified reset: Factory settings restored by 3-second magnet proximity
- Seamless connectivity: Enables wireless linking with other Keilton+autani devices
- Environmental protection: IP66-rated for wet location applications
- Durable construction: UV-rated polycarbonate housing with white finish
- Extended range: Enhanced antenna design with Bluetooth transmission up to 328ft

Requirement

- Must be paired with Dim-to-Off LED drivers featuring 12V AUX output
- Requires compatible mating receptacle (e.g., SC01-AUX, BH4, Z10 by others), sold separately
- Factory reset function requires magnet (not included)

Specifications

Input Voltage	DC 12V
Input Current	41mA Max
Input Power	0.5W
Output Current	10mA Max
Output Power	0.1W
Dimming	Class 2, 0-10V DC 10mA Max
Sinking Current	10mA Max
Bluetooth Transmit	100ft Max
Radio Frequency	2.4GHz ± 75MHz
Bluetooth Version	5.0
Housing Material	UL 94-5VA
Indoor/Outdoor Use	Indoor Use
Operating Temperature	-30°C to 65°C, -22°F to 149°F
Storage Temperature	-30°C to 85°C, -22°F to 185°F
IP Rating	IP66/Wet Location
Color	White
Warranty	5 year warranty
Compliance	UL8750, UL1376, RoHS
Compliant Standard Interfaces	Zhaga book 18
Safety	cULus Listed LED Controller E504054 FCC ID: 2A26YLTKTVT2022 DID: D061367 DLC: NLTRC5KL0TN

## Mating Receptacle (not included in the product package)

SC01-AUX   **BH4**   **SC03-AUX**

Ordering Information - WPPA102

Model	BASE	Color	Bluetooth Version	Description
WPPA102-BH4.B1	BH4	White	5.0	
WPPA102-BH4.A0	BH4	White	4.2	
WPPA102-AUX.A0	AUX	White	4.2	Plug-and-Play Bluetooth Controller Node
WPPA102-AUX.B1	AUX	White	5.0	
WPPA102-Z10-A0	Zhaga Z10	White	5.0	
WPPA102-Z10.B1	Zhaga Z10	White	5.0	

Ordering Information - Accessories

Model	Type	Description
SC01-AUX	Base	AUX Receptacle
BH4	Base	BH4 Receptacle
SC03-AUX	Accessory/Adapter	AUX Socket Extension Adapter

Wiring
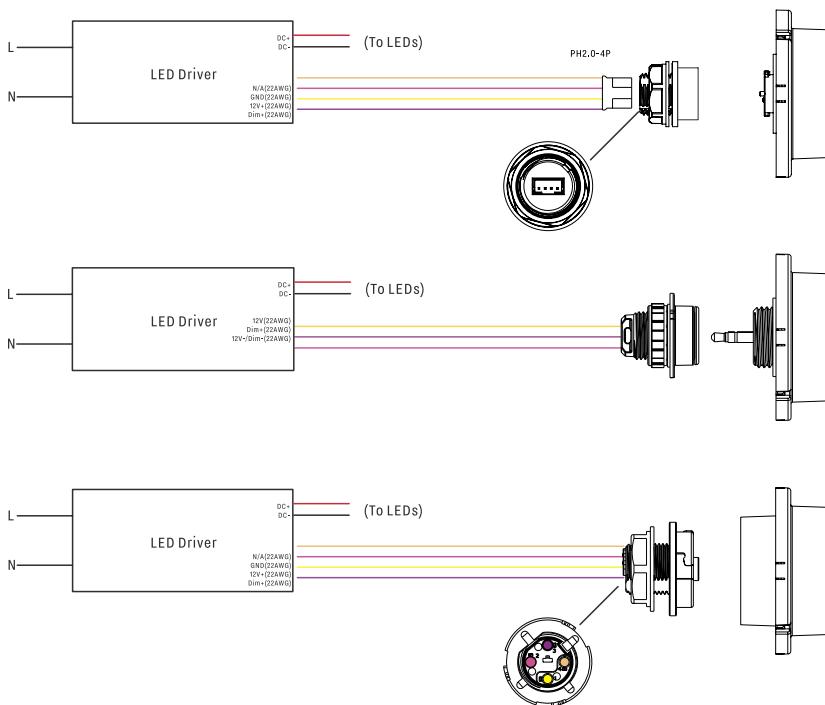
Socket Mounting Dimensions

Size	T.P.I – inch	Major Dia. – inch
R1/2	14	0.825

Dimensions

Unit:inch/mm

WPPA102-BH4

0.92"
23.5mm

WPPA102-AUX

1.54"
39.2mm

0.54"
13.9mm

WPPA102-Z10

1.16"
29.6mm
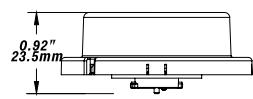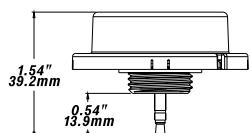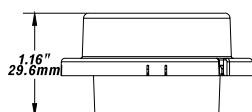
Dimensions - Accessories

WSC01-AUX

0.39"
9.8mm

1.18"
30mm

Zhaga Z10 (By Others)

1.17"
29.7mm

WSC03-AUX

5.38"
136.8mm

2.03"
51.7mm

2.79"
71mm

BH4W

0.39"
9.8mm

1.18"
30mm

1.63"
41.4mm

90

90

170
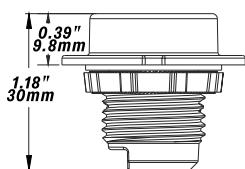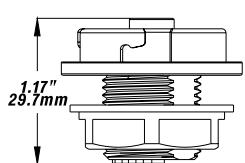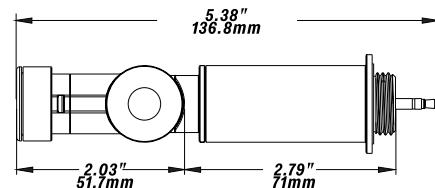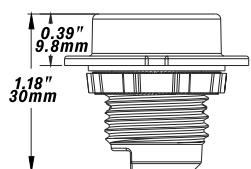
| Socket Mounting Dimensions		½ inch US standard knockout
Size	T.P.I – inch	Major Dia. – inch
R1/2	14	0.825
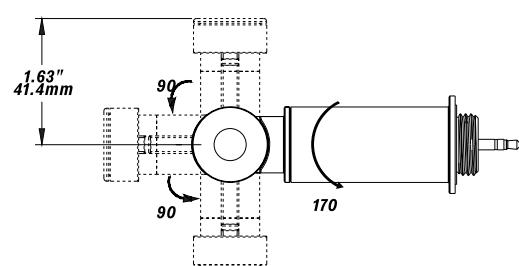
Transmission


T45-P4 5T

45-P22 5T

0-P0

XOZ

XOY

YOZ
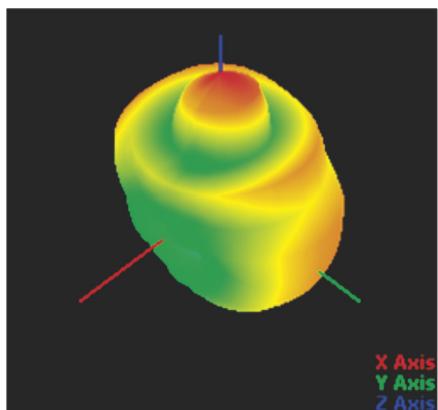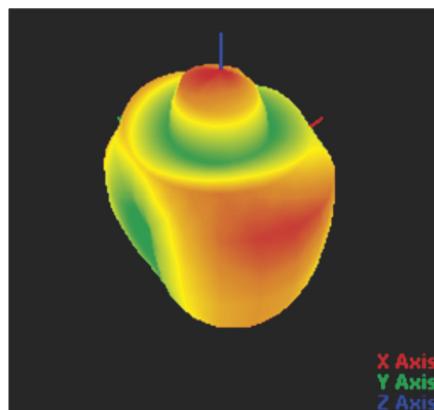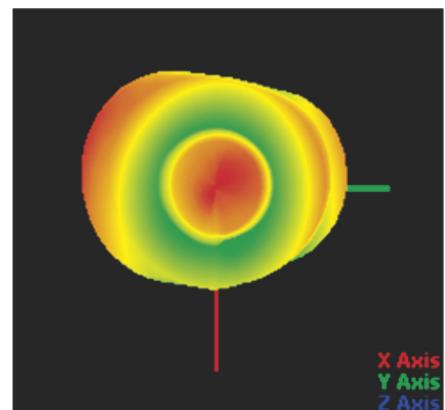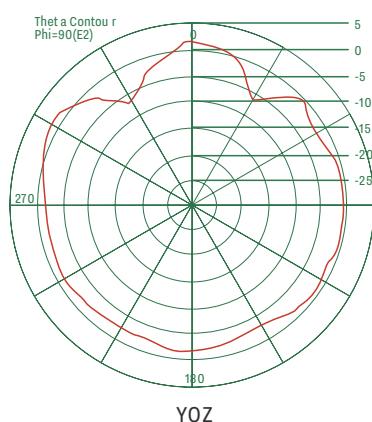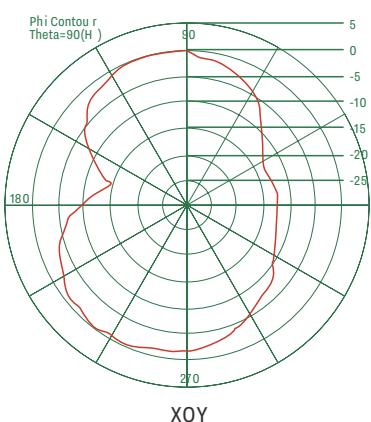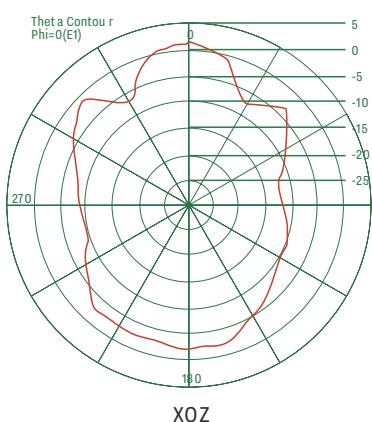
Transmission

Wireless Signal Strength	
Transmission Distance	RSSI(dbm)
82ft(25m)	-76
164ft(50m)	-79
246ft(75m)	-87
328ft(100m)	-90

**Note:** The test transmission distance of two WPPA102-W

Product Label
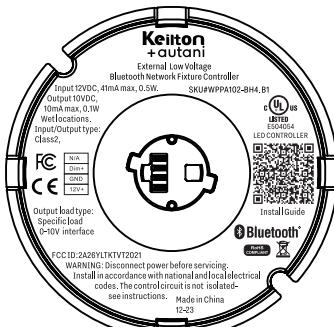
WPPA102-BH4.B1

WPPA102-AUX.B1
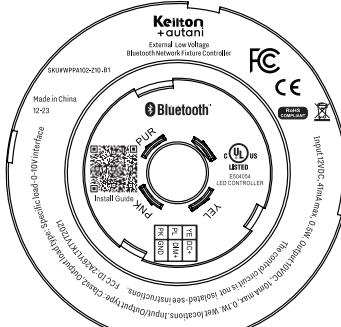
WPPA102-Z10.B1

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App Download

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