

JLS-LLE-WPPA102 SERIES BLUETOOTH CONTROLLER NODE

JAYKAL

PROJECT NAME:

JAYKAL LED SOLUTIONS, INC.

www.jaykal.net

PROJECT NOTES:

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PRODUCT DESCRIPTION

The JLS-LLE-WPPA102 is an advanced Bluetooth control node engineered for seamless integration with LumaLinx 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 JLS-LLE-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 LumaLinx 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



Revised 11/13/24

Specifications are typical values and may change without notification

efficiency. illuminated.

JLS-LLE-WPPA102 SERIES BLUETOOTH CONTROLLER NODE

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SPECIFICATIONS TABLE

JLS-LLE-WPPA102 SERIES

INPUT VOLTAGE	12VDC
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 Years
COMPLIANCE	UL8750, UL1376, RoHS

Due to our continued efforts to improve our products, specifications are subject to change without notice.

Ordering Guide

MODEL	BASE	COLOR	BLUETOOTH VERSION	DESCRIPTION
JLS-LLE-WPPA102-BH4.B1	BH4	White	5.0	Bluetooth Controller Node
JLS-LLE-WPPA102-BH4.A0	BH4	White	4.2	
JLS-LLE-WPPA102-AUX.A0	AUX	White	4.2	
JLS-LLE-WPPA102-AUX.B1	AUX	White	5.0	
JLS-LLE-WPPA102-Z10.A0	Zhaga Z10	White	5.0	
JLS-LLE-WPPA102-Z10.B1	Zhaga Z10	White	5.0	

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efficiency. illuminated.

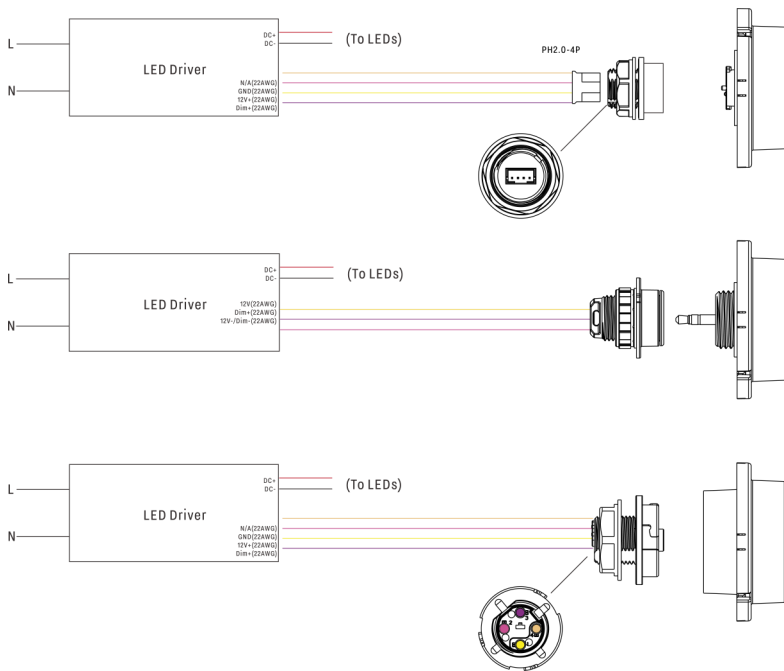
JLS-LLE-WPPA102 SERIES BLUETOOTH CONTROLLER NODE

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Accessory Ordering Guide

MODEL	TYPE	DESCRIPTION
JLS-LLE-SC01-AUX	Base	AUX Receptacle
JLS-LLE-BH4	Base	BH4 Receptacle
JLS-LLE-SC03-AUX	Accessory/Adapter	AUX Socket Extension Adapter

WIRING

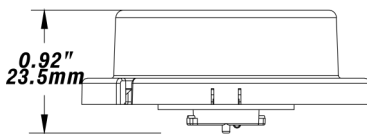


Socket Mounting Dimensions		
Size	T.P.I - inch	Major Dia. - inch
R1/2	14	0.825

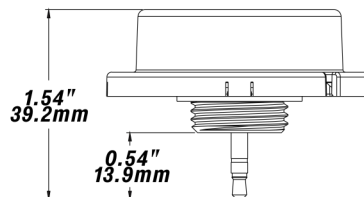
DIMENSIONS

Unit:inch/mm

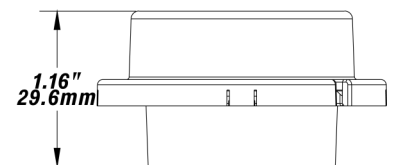
JLS-LLE-WPPA102-BH4-W



JLS-LLE-WPPA102-AUX-W



JLS-LLE-WPPA102-Z10-W



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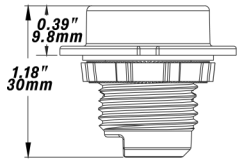
efficiency. illuminated.

JLS-LLE-WPPA102 SERIES BLUETOOTH CONTROLLER NODE

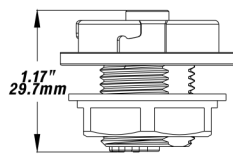
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ACCESSORIES DIMENSIONS

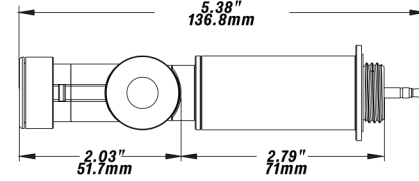
JLS-LLE-WSC01-AUX



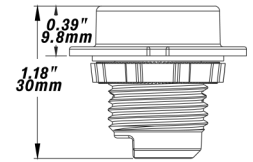
Zhaga Z10 (By Others)



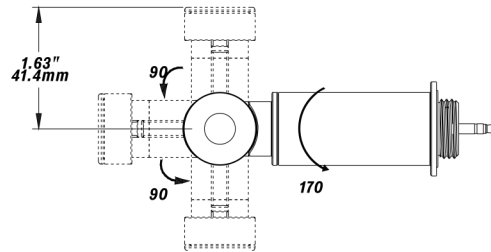
JLS-LLE-WSC03-AUX



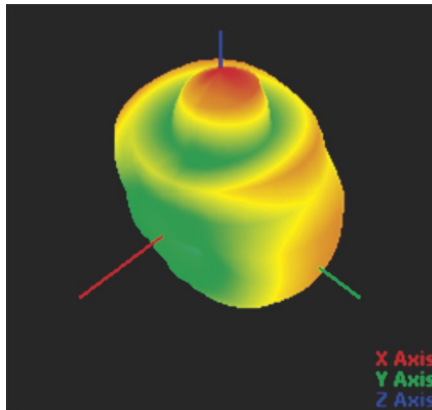
JLS-LLE-BH4W



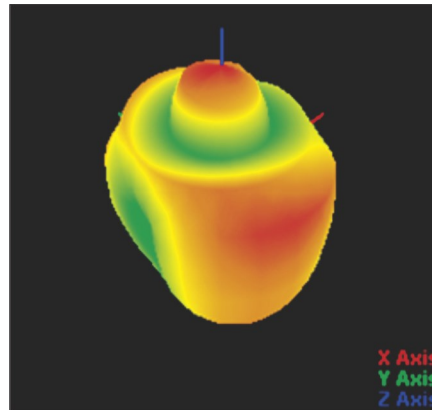
Socket Mounting Dimensions		½ inch US standard knockout
Size	T.P.I - inch	Major Dia. - inch
R1/2	14	0.825



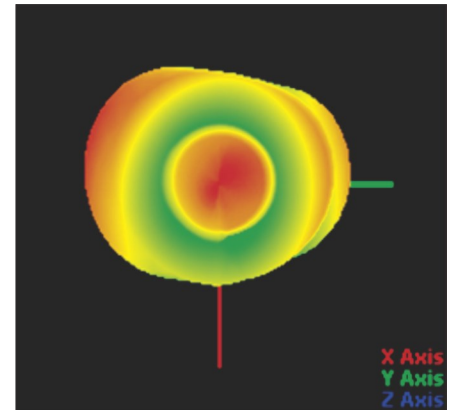
TRANSMISSION



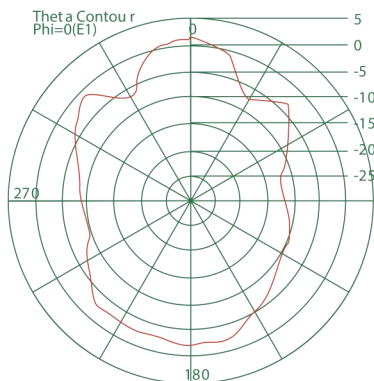
T45-P4 5T



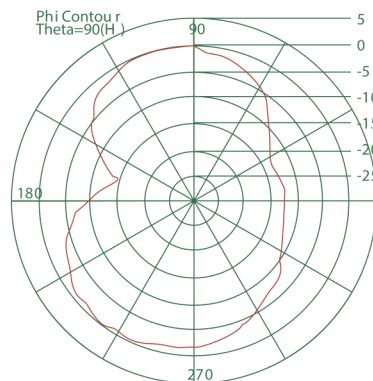
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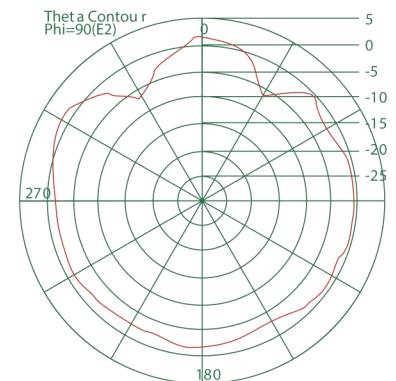
0-P0



XOZ



XOY



YOZ

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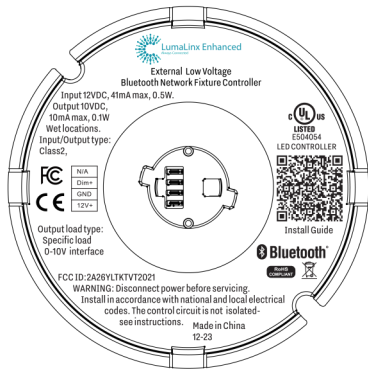
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TRANSMISSION

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 JLS-LLE-WPPA102-W

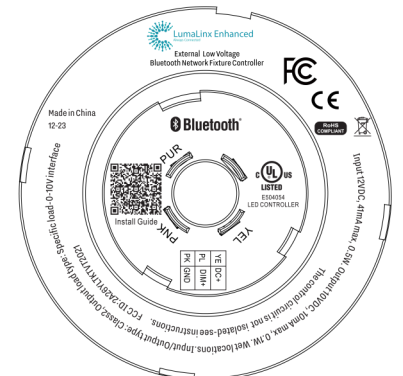
PRODUCT LABEL



JLS-LLE-WPPA102-BH4.B1



JLS-LLE-WPPA102-AUX.B1



JLS-LLE-WPPA102-Z10.B1

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APP DOWNLOAD



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