

JLS-LLE-PPA102S-W SERIES LINE VOLTAGE BT FIXTURE CONTROLLER

JAYKAL

PROJECT NAME:

JAYKAL LED SOLUTIONS, INC.

www.jaykal.net

PROJECT NOTES:

21499 Baltimore Ave.

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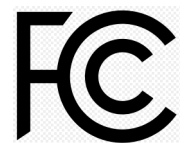
(F) 302-295-0016

PRODUCT DESCRIPTION

The JLS-LLE-PPA102S-W series of long-range antennas helps build a robust lighting control network for outdoor applications by extending the wireless coverage, improving the outdoor motion detection linkage, and facilitating the integration of network sensors. It is also equipped with a relay control and single channel 0-10V dimming control function. The JLS-LLE-PPA102S-W works seamlessly with devices in the Linx Sensor series and can be easily commissioned via the LumaLinx app.

FEATURES

- 120-277VAC and 120-347VAC models
- 5dbi external antenna (JLS-LLE-TX5 included) with long distance transmit and IP65
- Supports LumaLinx Linx Sensors
- Can be used as a signal booster for entire Bluetooth zone
- Provides 0-10VDC dimmable single channel output



Revised 9/19/24

Specifications are typical values and may change without notification

efficiency. illuminated.

JLS-LLE-PPA102S-W SERIES LINE VOLTAGE BT FIXTURE CONTROLLER

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SPECIFICATIONS TABLE

JLS-LLE-PPA102S-W SERIES

INPUT VOLTAGE	Class 2, 0-10V DC 10mA Max
FREQUENCY	50/60Hz
INPUT CURRENT	6A Max
INPUT POWER	6A Max 720W@120V, 1662W@277V, 2082@347V
OUTPUT VOLTAGE	120-277VAC, 120-347VAC
OUTPUT CURRENT	6A Max
OUTPUT POWER	720W Max @ 120V, 1662W Max @ 277V, 2082W Max @ 347V
DIMMING	Class 2, 0-10V DC 10mA Max
SINKING CURRENT	10mA Max
BLUETOOTH TRANSMIT	JLS-LLE-TX1: 984ft Max, JLS-LLE-TX5: 1968ft Max
BLUETOOTH VERSION	5.0
HOUSING MATERIAL	UL 94-5VA
INDOOR/OUTDOOR USE	Indoor/Outdoor 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	IP20
COLOR	White
WARRANTY	5 Years
COMPLIANCE	UL8750, UL2043, UL1376, RoHS

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

Ordering Guide

MODEL	DESCRIPTION
JLS-LLE-PPA102S-W.C1	Wireless Fixture Controller with Long-Range Antenna, 6A, 120-277VAC
JLS-LLE-PPA102S-W.E1	Wireless Fixture Controller with Long-Range Antenna, 6A, 120-347VAC

Accessory Ordering Guide

MODEL	DESCRIPTION
JLS-LLE-TX1	2.4GHz-1dbi Antenna
JLS-LLE-TX5	2.4GHz-5dbi Antenna

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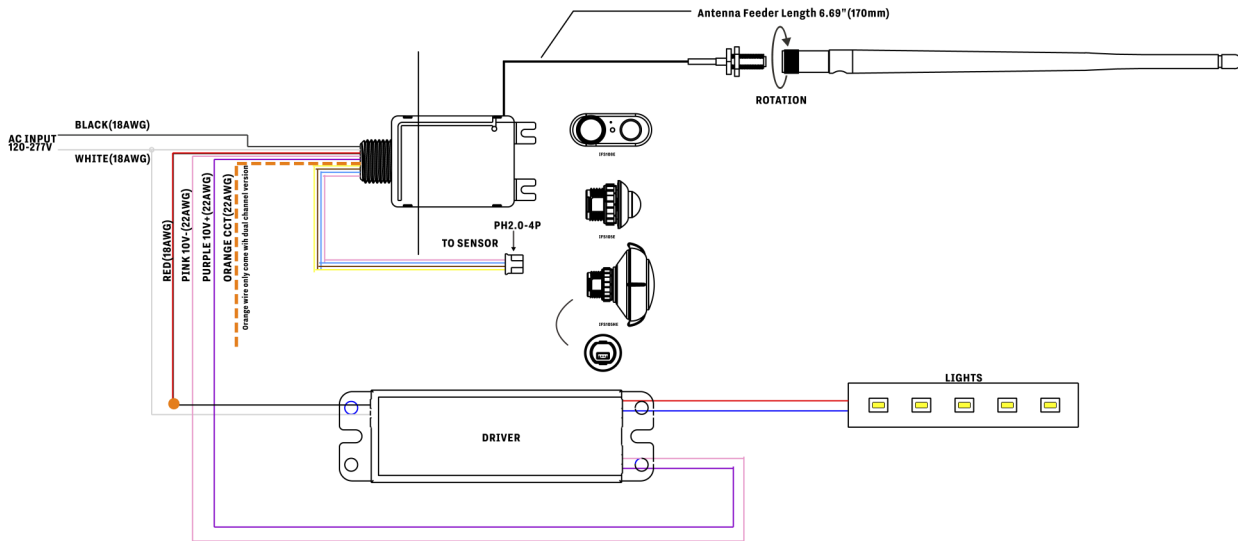
JLS-LLE-PPA102S-W SERIES LINE VOLTAGE BT FIXTURE CONTROLLER

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WIRING

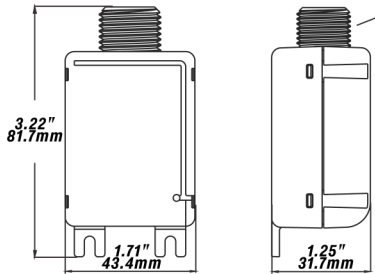
FFC (22AWG)

Yellow	Brown	Blue	Pink
12V+	PIR	PHO	GND



Dimensions

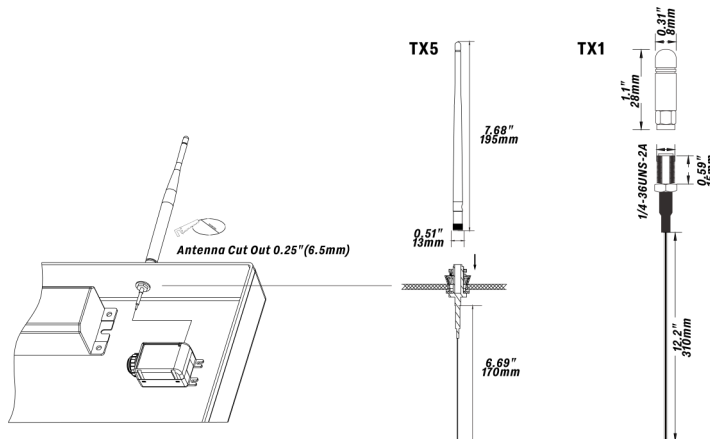
Unit: inch/mm



Socket Mounting Dimensions 1/2 inch US standard knockout

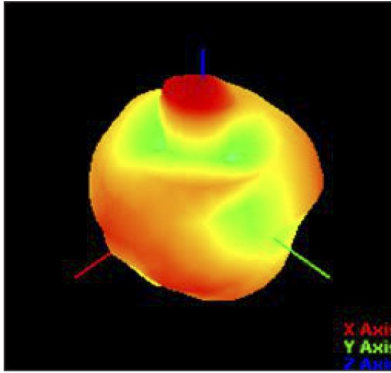
Size	T.P.I - inch	Major Dia. - inch
R1/2	14	0.825

DIMENSIONS

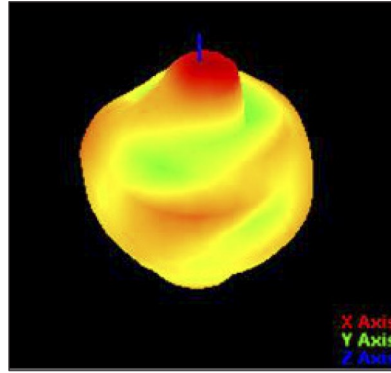


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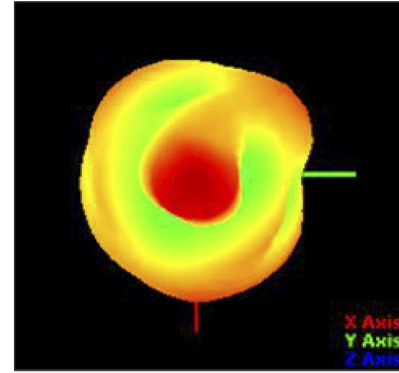
TX1 TRANSMISSION



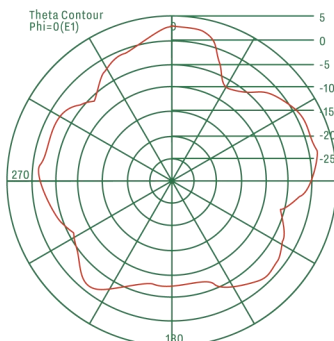
T45-P45



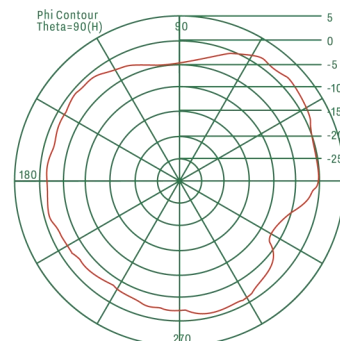
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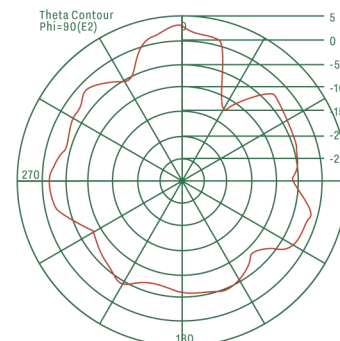
T0-P0



XOZ



XOY



YOZ

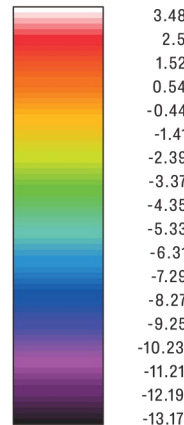
Wireless Signal Strength

Transmission Distance RSSI (dbm)

328ft (100m) -53

656ft (200m) -54

984ft (262m) -64



Coordination System Description:

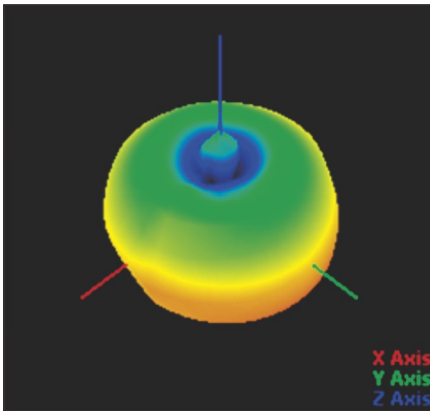
Line Color	XYZ	Theta-Phi
Red L.	Axis X	Theta90-Phi0
Green L.	Axis Y	Theta90-Phi90
Blue L.	Axis Z	Theta0

Note: The test transmission distance of two PPA102S-W.C1

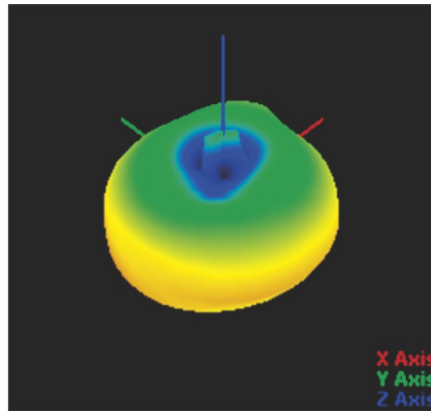
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efficiency. illuminated.

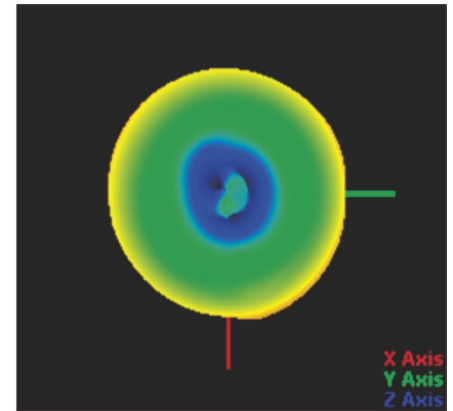
TX5 TRANSMISSION



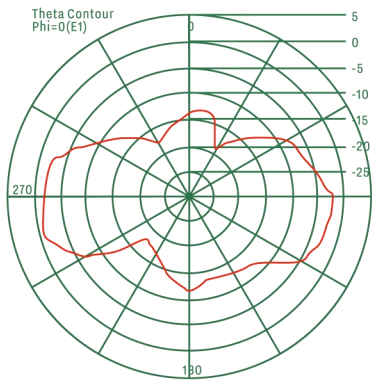
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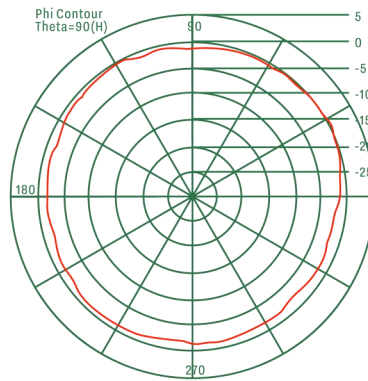
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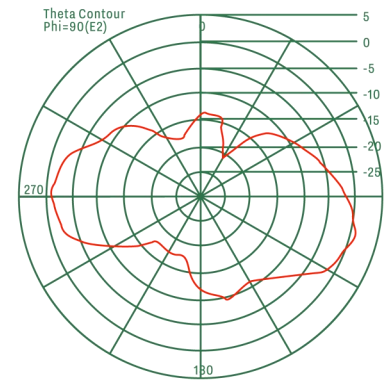
T0-P0



XOZ



XOY



YOZ

Wireless Signal Strength

Transmission Distance RSSI (dbm)

328ft (100m) -40

656ft (200m) -43

984ft (300m) -45

1312ft (400m) -51

1640ft (500m) -52

1968ft (600m) -60



5.4
3.89
2.38
0.87
-0.65
-2.16
-3.67
-5.18
-6.69
-8.21
-9.72
-11.23
-12.74
-14.26
-15.77
-17.28
-18.79
-20.31

Coordination System Description:

Line Color	XYZ	Theta-Phi
Red L.	Axis X	Theta90-Phi0
Green L.	Axis Y	Theta90-Phi90
Blue L.	Axis Z	Theta0

Note: The test transmission distance of two PPA102S-W.C1

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