

Fixture Controller & Signal Booster



Antenna not included in the product package



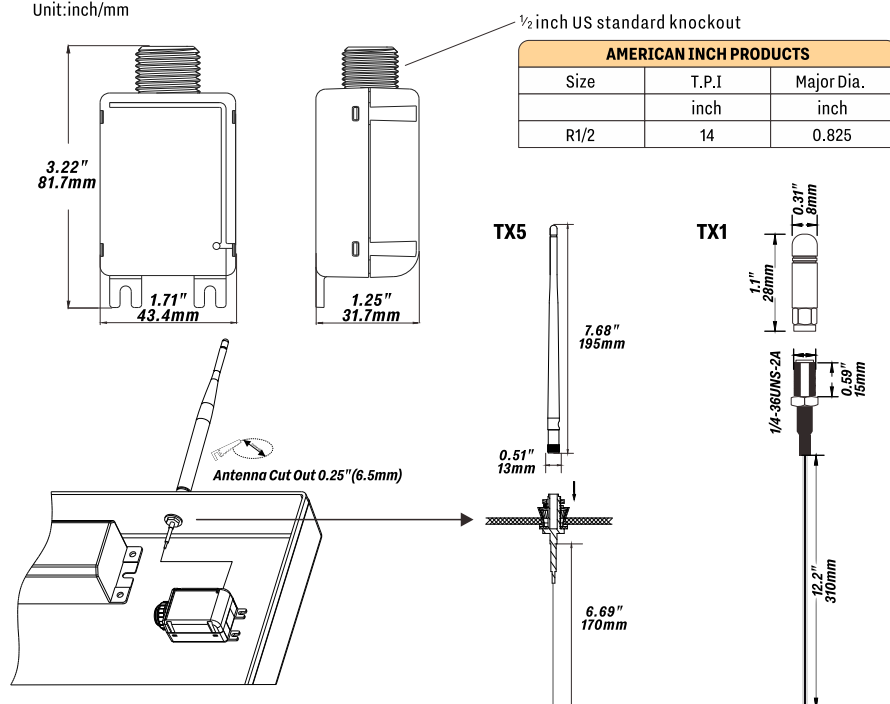
FEATURES

PPA102S-W comes with 1dBi IP65 long range antenna with maximum range of 984ft, 5dBi IP65 long range antenna with maximum range of 1968ft. The long range antenna helps to build a robust network lighting control for outdoor applications by extending the wireless coverage improving the outdoor motion detection linkage and facilitating the integration of network sensors. It also equipped with relay control and single channel 0-10V dimming control function can be set in Keilton App. PPA102S-W also supports Eco Sensor ready, is compatible with Keilton Eco Sensor family.

* Note: All application environments will not necessarily be able achieve max signal range due to factors such as signal obstructions, interference, and luminaire/housing design. Testing is recommended to ensure performance for the applications.

DIMENSION

Unit: inch/mm



| MODEL | DESCRIPTION |
|-----------|---|
| PPA102S-W | Wireless Fixture Controller with long Range Antenna |
| TX1 | 2.4G-1dbi Antenna |
| TX5 | 2.4G-5dbi Antenna |

SPECIFICATIONS

Input Voltage: AC120-277V

Frequency: 50/60Hz

Input Current: 6A Max

Input Power: 720W Max @ 120V,
1662W Max @ 277V

Output Voltage: AC120-277V

Output Current: 6A Max

Output Power: 720W Max @ 120V,
1662W Max @ 277V

Dimming: Class 2, 0-10V DC 10mA Max

Sinking Current: 10mA Max

Bluetooth Transmit:

TX1: 984ft Max, TX5: 1968ft Max

Radio Frequency: 2.4GHz ± 75MHz

Bluetooth Version: 5.0

Housing Material: UL 94-5VA

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

Antenna: IP65

Color: White

Warranty: 5 years warranty

Comply to UL8750, UL2043, UL1376, RoHS

Safety: cULus Listed LED Controller

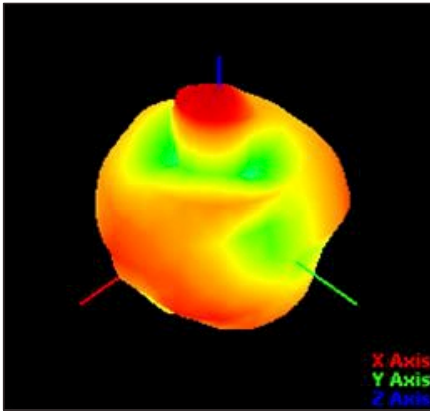
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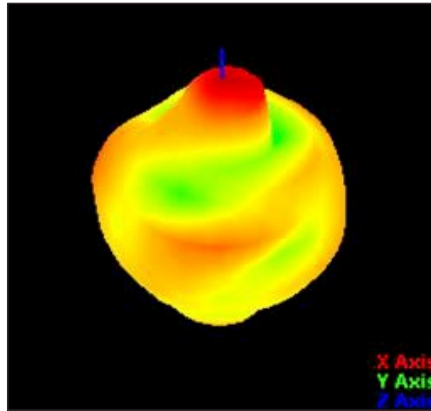
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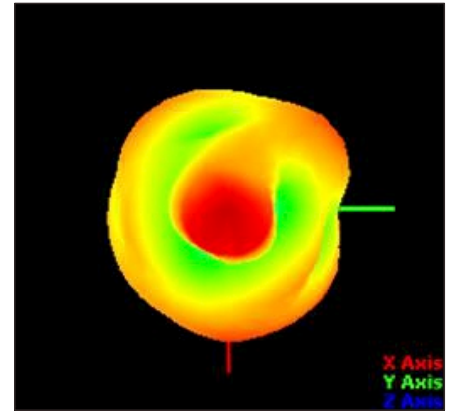
TX1 TRANSMISSION



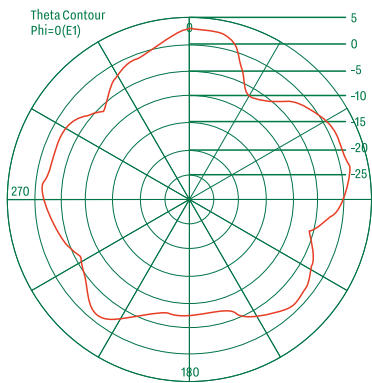
T45-P45



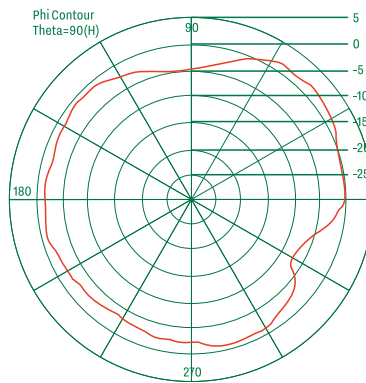
T45-P225



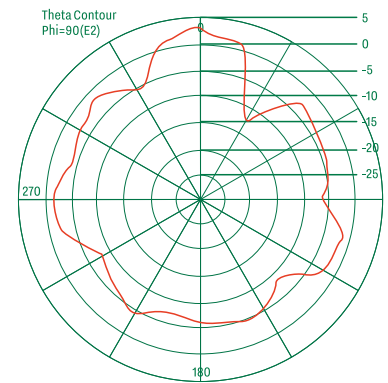
T0-P0



XOZ



XOY



YOZ

| Wireless Signal Strength | |
|--------------------------|-----------|
| Transmission Distance | RSSI(dbm) |
| 328ft(100m) | -53 |
| 656ft(200m) | -54 |
| 984ft(300m) | -64 |

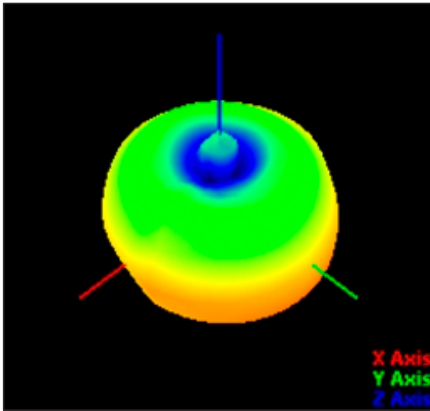
Note: The test transmission distance of two PPA102S-W



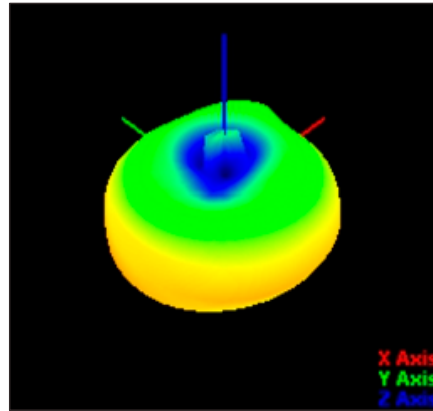
3.48
2.5
1.52
0.54
-0.44
-1.41
-2.39
-3.37
-4.35
-5.33
-6.31
-7.29
-8.27
-9.25
-10.23
-11.21
-12.19
-13.17

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

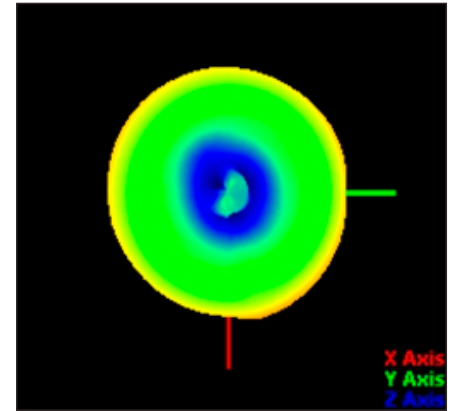
TX5 TRANSMISSION



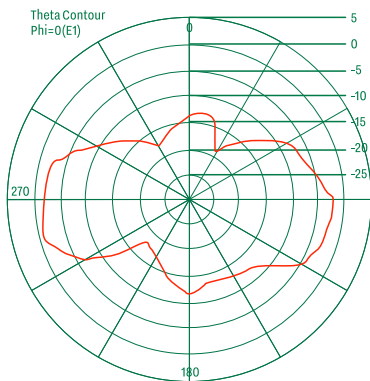
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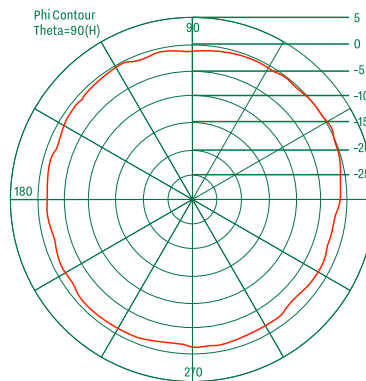
T45-P225



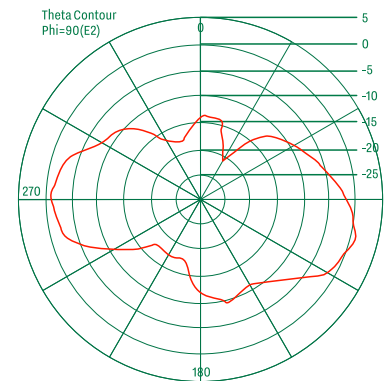
T0-P0



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 |

Note: The test transmission distance of two PPA102S-W

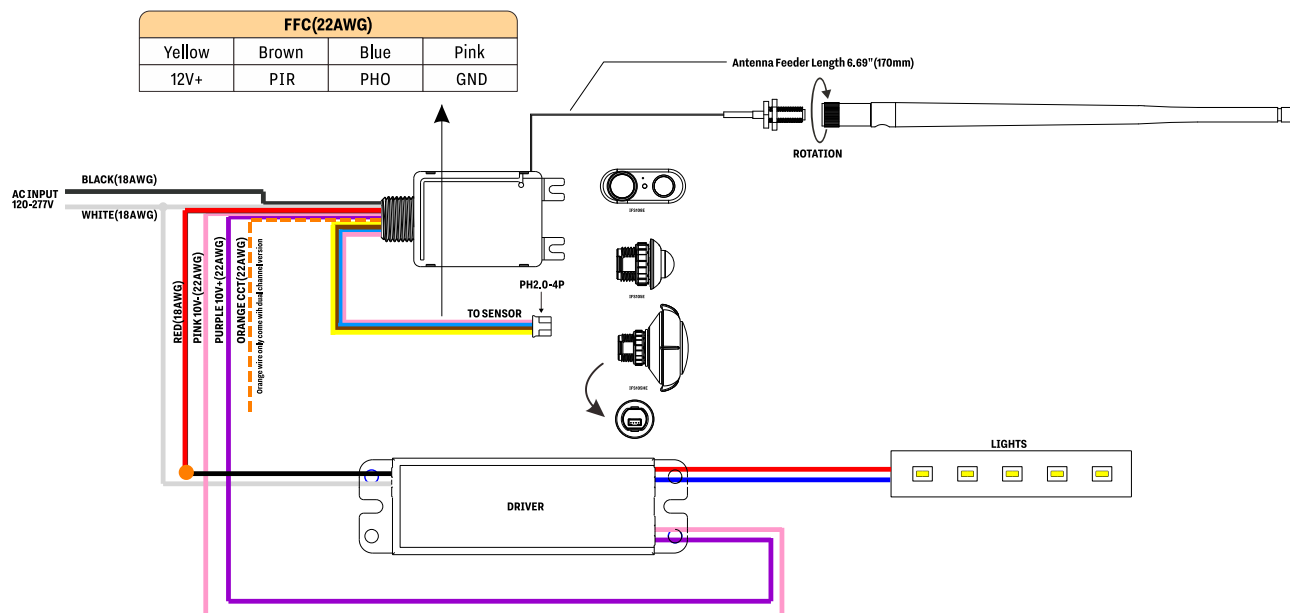


5.4
3.89
2.38
0.87
-0.65
-2.16
-3.67
-5.18
-6.69
-8.21
-9.72
-11.23
-12.74
-14.26
-15.77
-17.28
-18.79
-20.31

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 |

WIRING



MARKING

| | |
|------|------|
| RED | L1 |
| BK | L |
| WH | N |
| YEL | 12V+ |
| BRO | PIR |
| BLUE | PHO |
| PUR | 10V+ |
| PNK | GND |



Keilton[®] PPA102S-W Network

Long Range Fixture Controller

INPUT VOLTAGE: 120-277VAC
FREQUENCY: 50/60Hz
INPUT CURRENT: 6A Max
INPUT POWER: 720-1662W
OUTPUT VOLTAGE: 120-277VAC
OUTPUT CURRENT: 6A Max
OUTPUT WATTAGE: 720-1662w
AUX VOLTAGE: 12VDC/0.2A
DIMMING OUTPUT: 0-10V
AUX & DIMMING CLASS 2 Rated

LONG RANGE ANTENNA

Input type: Branch Circuit(mains)
Output type: Branch Circuit(mains)
Output load type: Switch mode LED driver
Wired control Circuits Isolated

WARNING:
Install in accordance with the national and local electrical code, disconnect power before servicing. Damp Location

RoHS COMPLIANT
UL LISTED E504054
LED CONTROLLER
FCC CE Bluetooth

FCC ID: 2A26YLT KT VT2022

Made in China

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