

# SENSORS



# & CONTROLS

2025

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NINGBO SHARKWARD ELECTRONICS CO.,LTD.



# Introduction

- Sharkward is a manufacturer which is most professional in energy savings since 2008, located in Ningbo, China. We offer a good variety of products to our customers, including without limitation: microwave sensors, pir sensors, dimming sensors, ceiling sensors, wall sensor switches, high bay sensors, sensor lamps, dimming sensor lamps, emergency sensor lamps etc.
- Our partners are big or small wholesalers, retailers and LED factories. We always meet different requirements about technology, packing and delivery time from different clients.
- We design, manufacture and sell a wide range of motion sensors and light engines. Besides of standard products, we also supply quality OEM and ODM sensors for customers. Sharkward always keep creating new models to provide the most efficient energy saving products. Technology is the most powerful tool of Sharkward to help you take control of your energy costs and your carbon footprint. Our target is 0.01W power consumption.
- Sharkward team is equipped with more than 10 experienced engineers to develop tools, machines, art works, software and hardware, and also with good management team to hold responsibility for the strategic focus of SHARKWARD.
- Before reaching any orders, Sharkward sales teams will communicate fully with clients for their demandings to make sure the products offered can work perfectly. During production, Sharkward's quality department will monitor production process, After clients get their goods, Sharkward sales team will follow up, and if any problem, they'll talk with the engineering department to solve in time.

RoHS





# INDEX

## New Arrivals

ANT-703P-C 1

ANT-703P-A 2

BRI-DT301 3  
BRI-DT301P

BRI-VOS201 5

## Line Voltage:

BRI810-B-D .....	9
BRI810-C-F .....	10
BRI810-C-D .....	10
BRI810-B-M4 .....	11
BRI810-B-M6 .....	11
BRI810-B-M7 .....	11
BRI810-B-M8 .....	11
BRI810-B-M10 .....	11
BRI820-B-M3 .....	13
BRI820-B-M4 .....	13
BRI820-B-M6 .....	13
BRI820-B-M7 .....	13
BRI820-B-M8 .....	13
BRI819P Series .....	15
BRI819 Series .....	17
BRI812P Series .....	19
BRI823-B-D .....	21
BRI823-X-D .....	22
BRI-DT301 Series .....	23
BRI-CMP305-O .....	24
BRI-CMU308 .....	25
BRI-CMU308-LV .....	25
BRI-VOS201 .....	26

# DC Voltage:

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ANT-1P-4T.....	29	ANT-6-4R-H.....	46
ANT-1P-4T-BM-2.....	29	ANT-6-4T-H.....	46
ANT-1M-5T.....	29	ANT-6-4H-H.....	46
ANT-1P-5T.....	29	ANT-6-ZT10-H.....	46
ANT-21-4T.....	31	ANT-5-4T.....	48
ANT-1C.....	32	ANT-5-4R.....	48
BRI619.....	33	ANT-5-4H.....	48
ANT-3A.....	34	ANT-5-ZT.....	48
ANT-3B.....	34	ANT-5-Z10.....	48
ANT-3C.....	35	ANT-7 & ANT-7-H.....	50
ANT-3C-B1.....	35	ANT-7D & ANT-7P.....	51
ANT-3C-B2.....	35	ANT-703P-A.....	52
ANT-3P.....	36	ANT-703P-B.....	52
ANT-3P-CCT.....	36	ANT-703P-C.....	52
ANT-4A.....	37	ANT-8.....	54
ANT-4E.....	38	ANT-8A.....	54
ANT-4E-2.....	38	ANT-9.....	55
ANT-4E-3.....	38	ANT-9-LW.....	55
ANT-4E-4.....	38	ANT-9C.....	56
ANT-4E-4-EM.....	38	ANT-9A.....	56
ANT-4E-4-BM.....	38	ANT-9E.....	57
ANT-4E-5.....	38	ANT-11.....	58
ANT-4E-6.....	38	ANT-15P.....	59
ANT-4D.....	39	ANT-15M.....	59
ANT-5.....	40	ANT-15P-1.....	59
ANT-6.....	42	ANT-15P-2.....	59
ANT-6-4T.....	44	ANT-15P-3.....	59
ANT-6-4H.....	44	SK104.....	60
ANT-6-4R.....	44	DP-03B.....	61
ANT-6-ZT.....	44	Bases.....	64
ANT-6-Z10.....	44	Remote Control.....	69
ANT-6-4T-KN.....	44		
ANT-6-4T-EM.....	44		



# ANT-703P-C



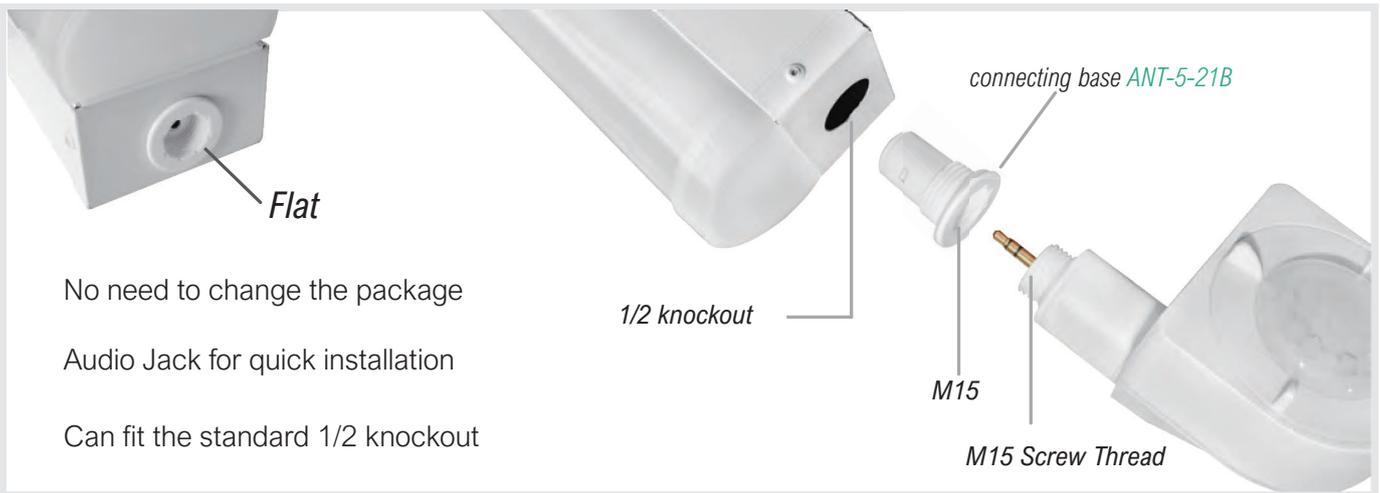
## Adjustable Elbow

The elbow part is adjustable to make sure the sensor is face down to the ground.

It has 3.5 mm Audio Jack with M15 pipe fitting.



## Quick Installation



## Wide compatibility

For the fixtures already installed with sharkward other audio jack receptacles, we can use an extra accessory to make ANT-703P-C fit with your exiting fixtures.

An extral accessory can turn M15 thread head into G1/2 thread head.



Base Pre-installed Fixtures



With ANT-703P-C installed

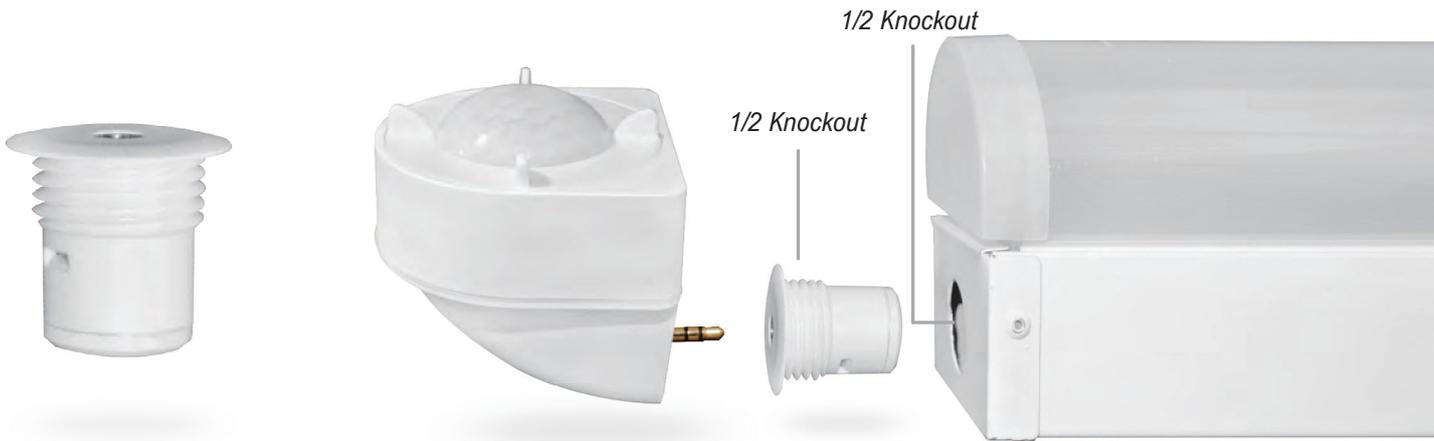




# ANT-703P-A



## Quick Installation



When you install the base, the interface is flat, so you don't need to change fixture package.



Two small magnets will stick on the fixtures to ensure the sensor installed firmly.

## Easy Parameter Setting



RC-100



ANT-703P-C

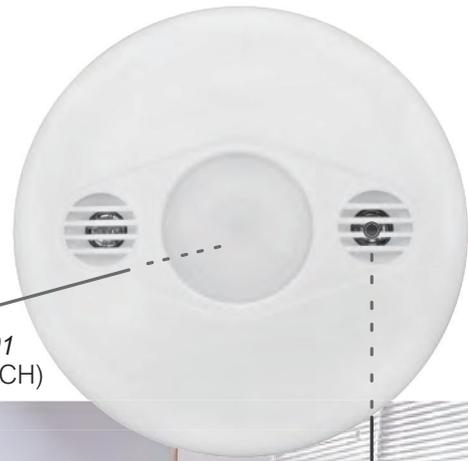


ANT-703P-A

Both the two products can be controlled by RC100 and dip switch.



# BRI-DT301/DT301P



BRI-DT301  
(DUAL TECH)



**PIR Detection**  
**360° Fresnel Lens**

**Detects fine motion**  
**Ultrasonic Sensor**

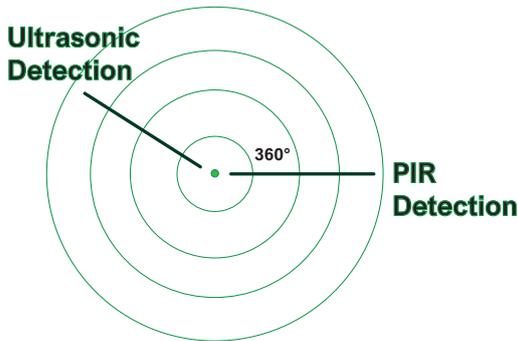


BRI-DT301P  
(PIR ONLY)

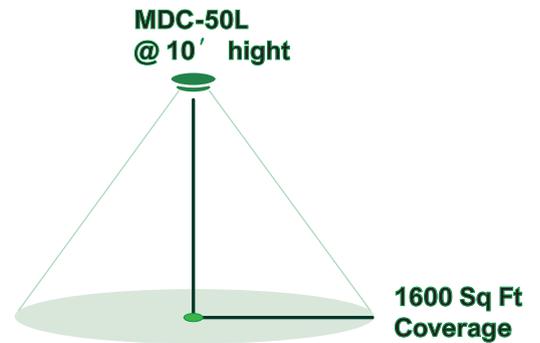
## 120-347V 360° DUAL TECHNOLOGY CEILING SENSOR

**IMPROVED PRESENCE DETECTION TO AVOID FALSE TRIGGERS**

### Wide Coverage



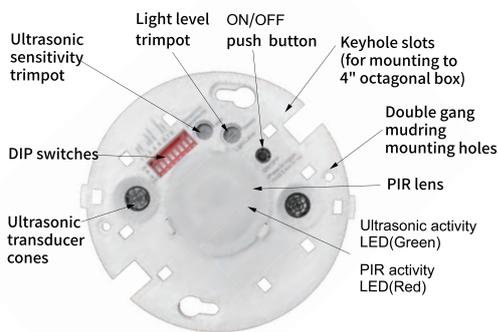
offer a comprehensive 360° coverage pattern



Multi-level Coverage up to 1600 Sq Ft

# Adjustable Settings

Time delay options adjustable from 5 seconds to 30 minutes.  
There are 24 different timing adjustments.



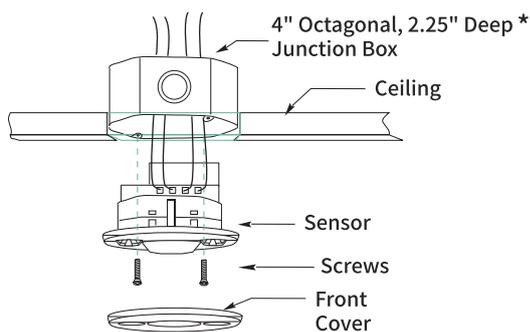
BRI-DT301

BRI-DT301P

## Two ways of Installation

### Using an Octagonal Junction Box

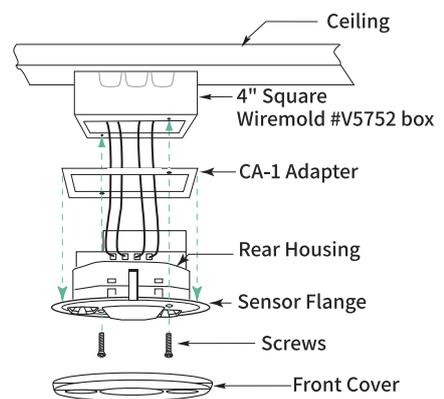
\* The Junction Box must be at least 2.25" deep.  
If it is not, an extension ring is required.



Mounting to an Octagonal Junction Box

*Recessed*

### Using a 4-Inch Square Junction Box



Mounting to a 4" Square Wiremold V5752 box or 4" Square Junction Box with Double-Gang Mudring

*Surface*

## Applications

- Cafeterias
- Classrooms
- Computer rooms
- Conference rooms
- Day care centers
- Filing rooms
- Work spaces
- Open warehouses
- Offices with cubicles
- Open areas
- Restrooms
- Stairwells
- Storage rooms
- Executive, open and private offices



*Open areas*



*Work spaces*



*Restrooms*



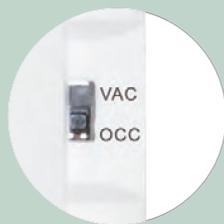
# BRI-VOS201



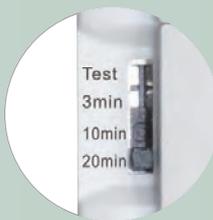
## 120-277 VAC Motion Sensor Light Switches

### Variety Modes Choice

Use DIP switch to change VAC or OCC mode. Make your home smarter with a single switch.



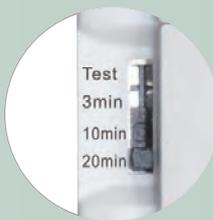
*Vacancy Mode  
Manual on & Auto Off*



*Occupancy Mode  
Auto on & Auto Off*

### Adjustable Delay Time

From 10 seconds to 20 minutes



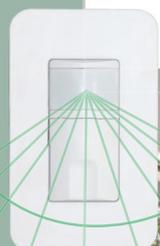
PIR  
Ground  
Button



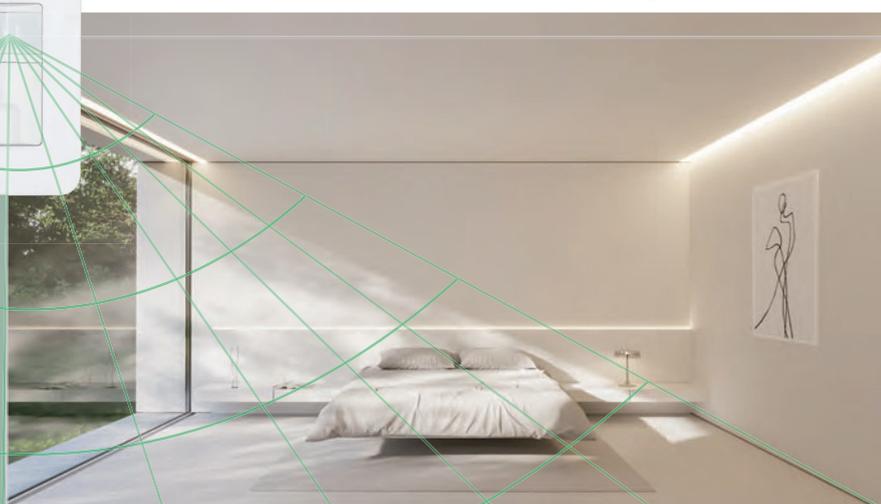
*The push button can be used to manually*

*turn ON/OFF the load*

**180° of Coverage  
Covers 900 sq.ft.**



## Wide Coverage





Install this Passive Infrared (PIR) sensor which has a 180° field of view to detect motion

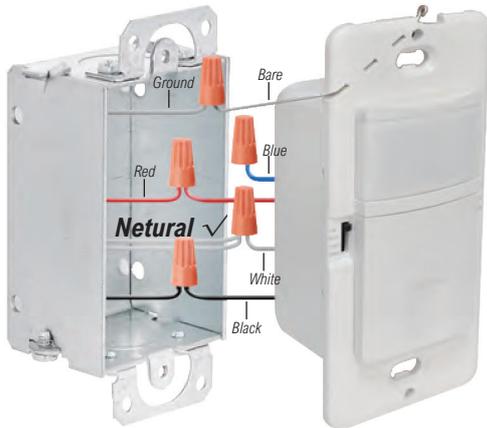
Automatic light control  
Eliminating the need for manual operation.



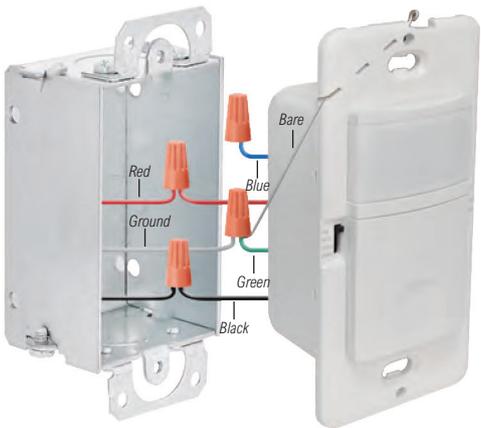
### Versatile compatibility

offering flexibility for your lighting system

Compatible with neutral or without neutral applications

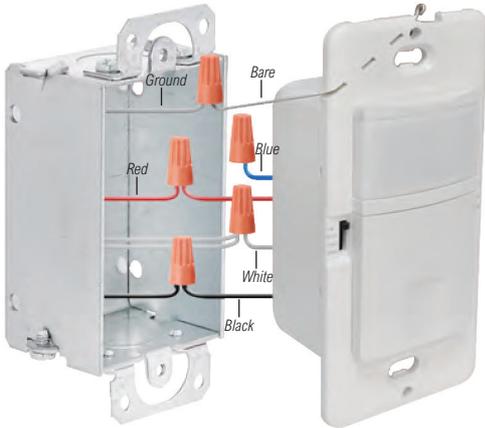


Neutral

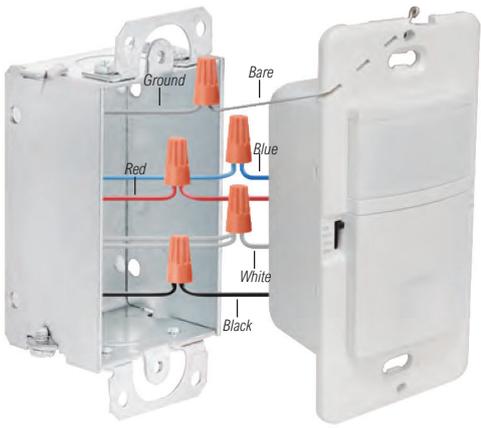


Without Neutral

Compatible with single pole or 3-way applications



Single Pole



3 way



# Line Voltage Sensors.







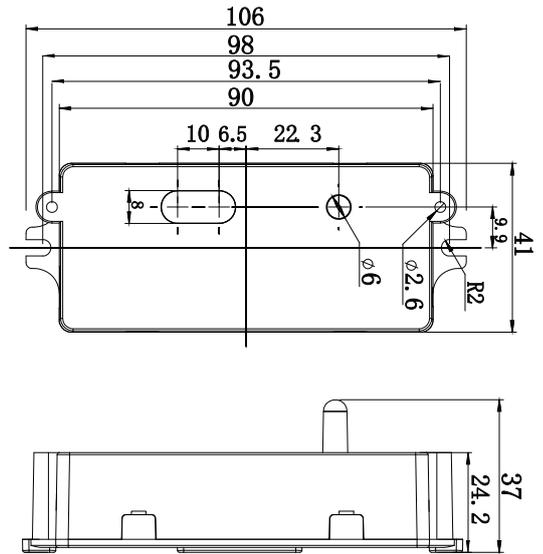
# Internal Bi-Level Microwave Sensor

## Dimensions



**BRI810-B-D**

Unit:mm



BRI810-B-D

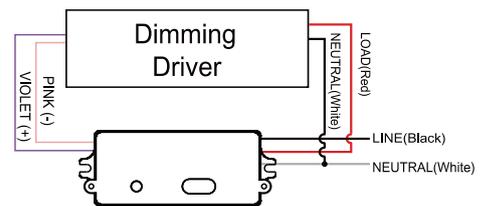
## Technical parameters

Power supply	120/277VAC 50/60Hz
Maximum load @-40°F ~ +158°F (-40°C - +70°C)	Resistive/Tungsten - 600W@120V Ballast Electronic (LED) -800VA@120V/ 1200VA@277V
HF System	5.8GHz CW(Only for microwave sensor)
Dim control output	0-10V, max. 25mA sinking current
Detection radius/angle	Max 26ft. (8m) /360°
Mounting height	Max 12ft
Humidity	Max. 95% RH
Temperature	-40°F~+158°F (-40°C ~ +70°C)
Parameter Setting	Via DIP Switch & RC100

## Wiring Diagrams

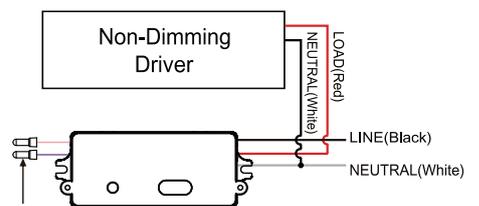
Wiring with dimming ballast or LED driver.

Dimming Driver



Wiring with non-dimming ballast or LED driver.

Non-Dimming Driver



Close End Wire Connector

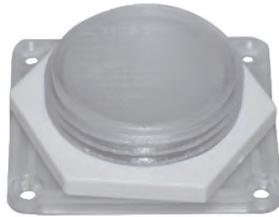


# Internal Bi-Level High Bay Sensor



**BRI810-C-D**

**BRI810-C-F**



**EM10**

## Ordering Info

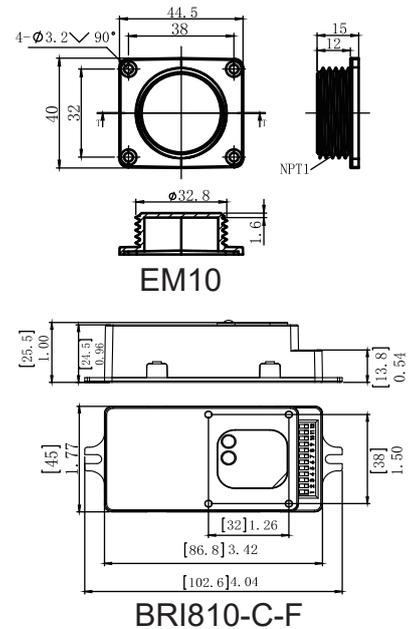
Item	Parameter Setting	Function
BRI810-C-D	DIP Switch Only	0-10V dimming only
BRI810-C-F	DIP Switch or RC100	Daylight Harvesting Function available
EM10	Adapter(Optional)	

## Technical parameters

Power supply	120/277VAC 50/60Hz
Maximum load @-40°F ~ +158°F (-40°C - +70°C)	Resistive/Tungsten - 600W@ 120V Ballast Electronic (LED) - 800VA@120V/1200VA@277V
HF System	5.8GHz CW
Dim control output	0-10V, max. 25mA sinking current
Detection radius/angle	Max 26ft. (8m) /360°
Mounting height	Max 40ft
Humidity	Max. 95% RH
Temperature	-40°F~+158°F (-40°C ~ +70°C)
Parameter Setting	Via RC100 or DIP Switch

## Dimensions

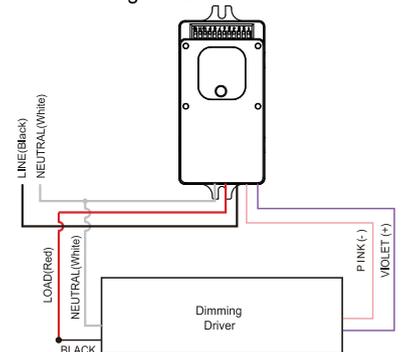
Unit:[mm]/in



## Wiring Diagrams

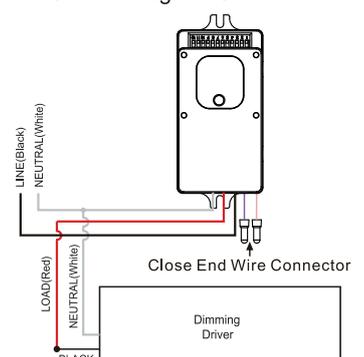
Wiring with dimming ballast or LED driver.

Dimming Driver



Wiring with non-dimming ballast or LED driver.

Non-Dimming Driver





# Split Design Bi-Level Occupancy Sensor



BRI810-B-M4



BRI810-B-M6



BRI810-B-M7



BRI810-B-M8



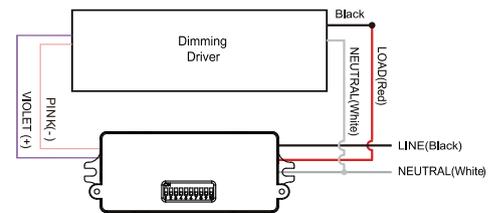
BRI810-B-M10

## Technical parameters

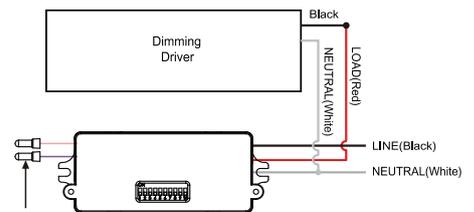
Power supply	120/277VAC 50/60Hz
Maximum load @-40°F ~ +158°F (-40°C - +70°C)	Resistive/Tungsten - 600W@ 120V Ballast Electronic (LED) - 800VA@120V/1200VA@277V
HF System	5.8GHz CW(Only for microwave sensor)
Dim control output	0-10V, max. 25mA sinking current
Detection radius/angle	Max 26ft. (8m) /360°
Mounting height	M4:Max 20ft M6:Max 40ft M7:Max 40ft M8:Max 40ft M10:Max 40ft
Humidity	Max. 95% RH
Temperature	-40°F~+158°F (-40°C ~ +70°C)
Parameter Setting	Via DIP Switch & RC100

## Wiring Diagrams

Wiring with dimming ballast or LED driver.  
Dimming Driver



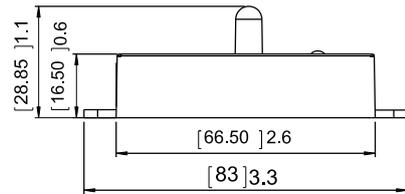
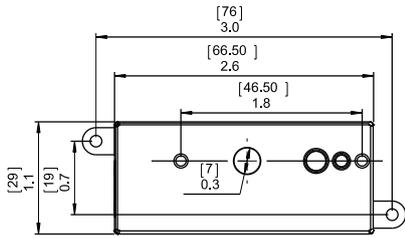
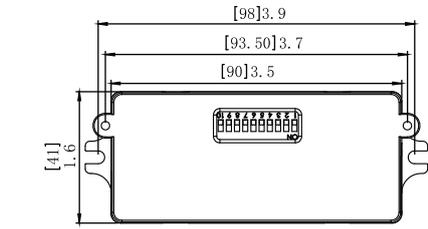
Wiring with non-dimming ballast or LED driver.  
Non-Dimming Driver



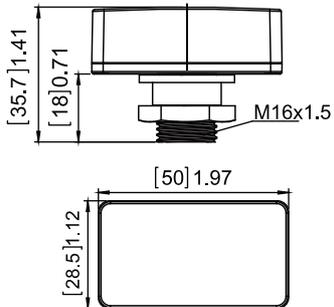
Close End Wire Connector

# Dimensions

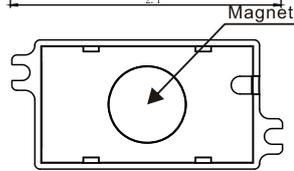
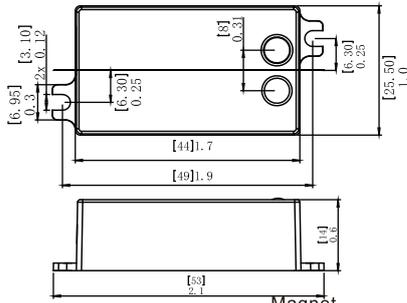
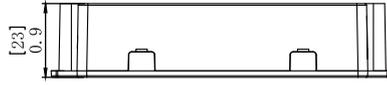
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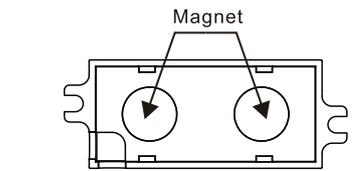
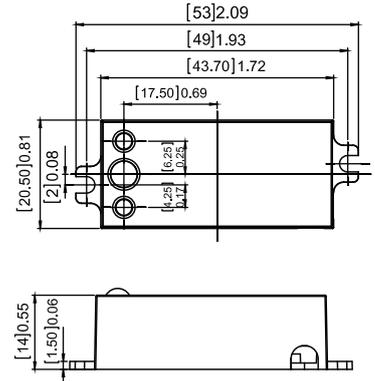
M4



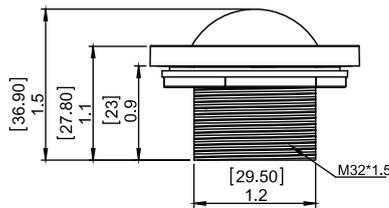
M7



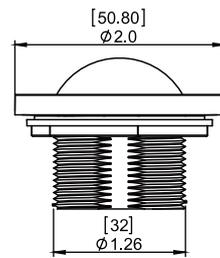
M6



M10



M8



# Ordering Info

Item No.	Typ	IP Rating	Max Installation Height
BRI810-B-M4	Microwave	IP20	20ft
BRI810-B-M6	Microwave	IP20	40ft
BRI810-B-M7	Microwave	IP65	40ft
BRI810-B-M8	PIR	IP65	40ft
BRI810-B-M10	Microwave	IP20	20ft



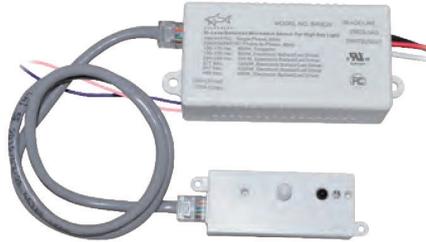
RoHS CE



# 120-480V Split Design Bi-Level Sensor



BRI820-B-M3



BRI820-B-M4



BRI820-B-M6



BRI820-B-M7

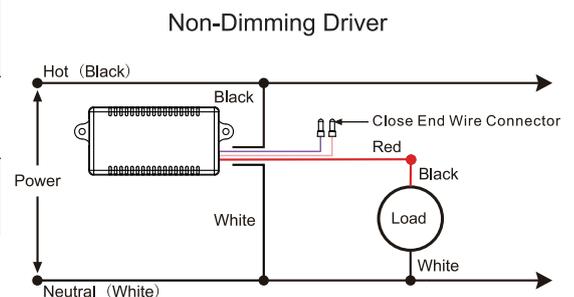
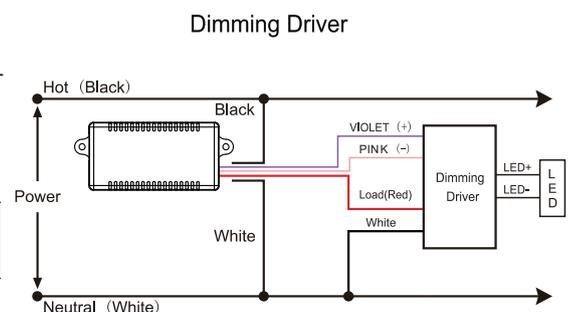


BRI820-B-M8

## Technical parameters

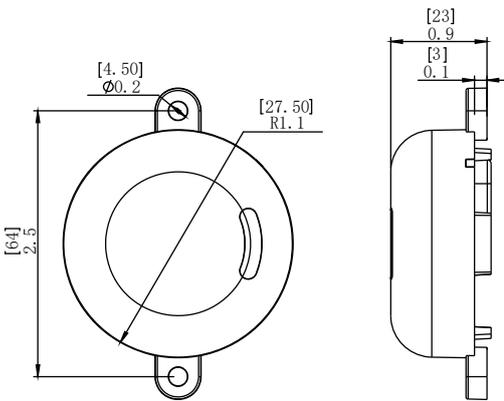
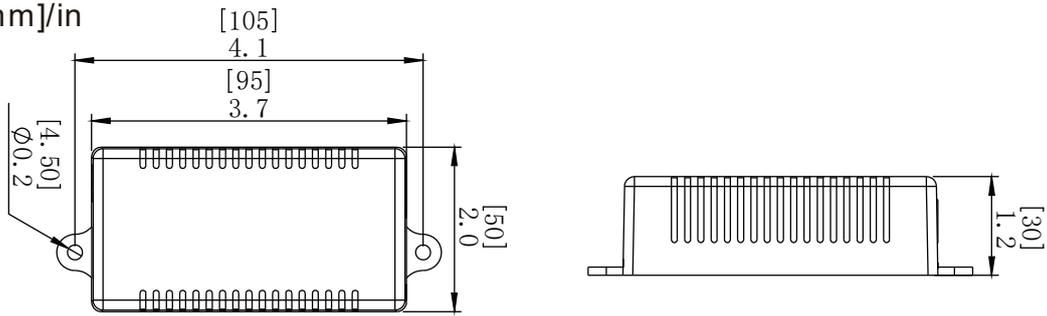
Power supply	100-347VAC, Single Phase, 60Hz 208/230/480VAC Phase-to-Phase, 60Hz
Maximum load @ -40°F ~ +185°F (-40°C ~ +85°C)	100-120 Vac, 800W, Tungsten 100-120 Vac, 800W, Electronic Ballast/Led Driver 230-240 Vac, 300 W, Electronic Ballast/Led Driver 277 Vac, 1200W, Electronic Ballast/Led Driver 347 Vac, 1200W, Electronic Ballast/Led Driver 480 Vac, 480W, Electronic Ballast/Led Driver
HF System	5.8GHz CW(Only for microwave sensor)
Dim control output	0-10 VDC Dimming, 50mA
Detection radius/angle	Max 26ft. (8m) /360°
Mounting height	M3:Max 50ft / M4:Max 20ft / M6:Max 40ft M7:Max 40ft / M8:Max 40ft
Humidity	Max. 95% RH
Temperature	-40°F ~ +185°F (-40°C ~ +85°C)
Parameter Setting	Via RC100

## Wiring Diagrams

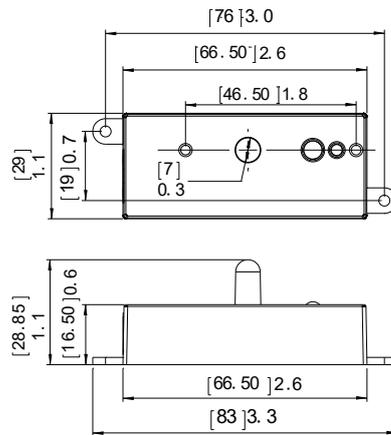


# Dimensions

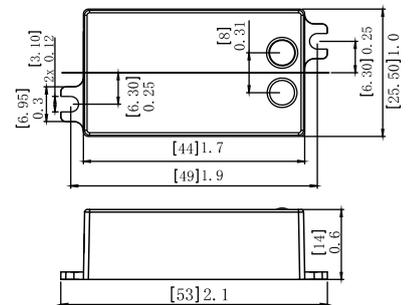
Unit:[mm]/in



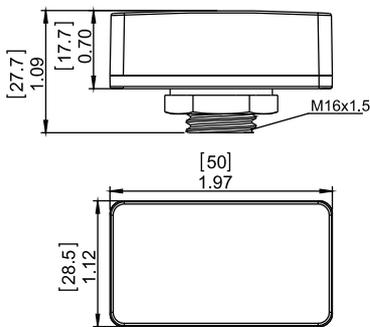
M3



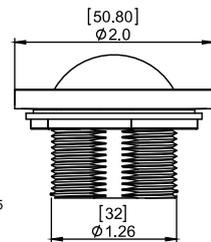
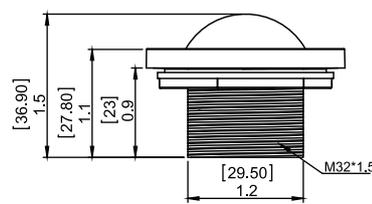
M4



M6



M7



M8

# Ordering Info

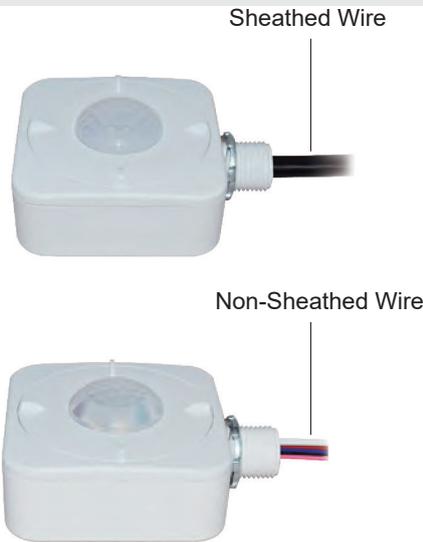
Item No.	Typ	IP Rating	Max Installation Height
BRI810-B-M3	Microwave	IP20	20ft
BRI810-B-M4	Microwave	IP20	20ft
BRI810-B-M6	Microwave	IP20	40ft
BRI810-B-M7	Microwave	IP65	40ft
BRI810-B-M8	PIR	IP65	40ft



RoHS CE



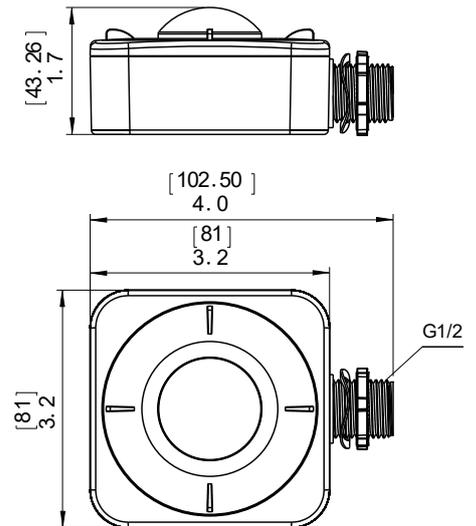
# G1/2" Side Mounted PIR Sensor



## BRI819P Series

### Dimensions

Unit:[mm]/in

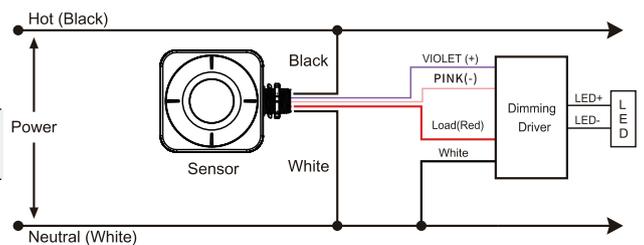


### Technical parameters

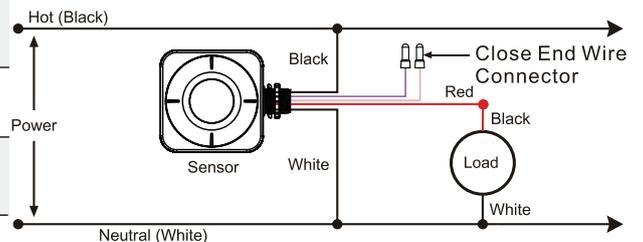
Power supply	BRI819P-B: 120-277VAC 50/60Hz BRI819P-C: 120-347VAC 50/60Hz
Maximum load @ -40°F ~ +167°F (-40°C ~ +75°C)	Resistive/Tungsten - 600W@120V Electronic Ballast - 800W@ 120V/1200W@277V
Dim control output	0-10V, max. 25mA sinking current (Only for dimming version)
Len 1 & Len 5	Max.detection radius 30ft; Max.mounting height 25ft
Len 2 & Len 6	Max.detection radius 30ft; Max.mounting height 40ft
Time setting	10sec.-15min.(adjustable)
Light-control	10-50Lux (adjustable)
Humidity	Max. 95% RH
Temperature	-40°F ~ +167°F (-40°C ~ +75°C)
Parameter Setting	Via DIP Switch & RC100

### Wiring Diagrams

Dimming Driver



Non-Dimming Driver



## Ordering Info

<b>BRI</b>	<b>Product Series</b>
<b>819P</b>	<b>Product Model:</b> 819P:Passive Infrared(PIR) Sensors & controls
<b>B</b>	<b>Input Voltage :</b> B:120-277VAC C:120-347V AC
<b>D</b>	<b>Function Option:</b> O:ON/OFF D:0-10V Dimming
<b>P</b>	<b>Waterproof Option:</b> P:Wet Location IP65 Empty:Indoor(IP20)
<b>VAL</b>	<b>Mode Option:</b> VAL:Daylight Harvesting LV: 12-24V Empty:NO Daylight Harvesting or Bluetooth function
<b>S</b>	<b>Cable Varieties :</b> S:Sheath Wire Empty:Non-Sheath Wire
<b>XX</b>	<b>Special Requirements :</b> WH: White BK: Black

## Additional Accessories



L1

(low bay IP20)



L2

(high bay IP20 included)



L5

(low bay IP65)



L6

(high bay IP65)



LH1

(High bay 50ft)



PN-01

(Extension nut)



EM1(Outdoor use)



EM2(Indoor use)



EM1B(Outdoor use)



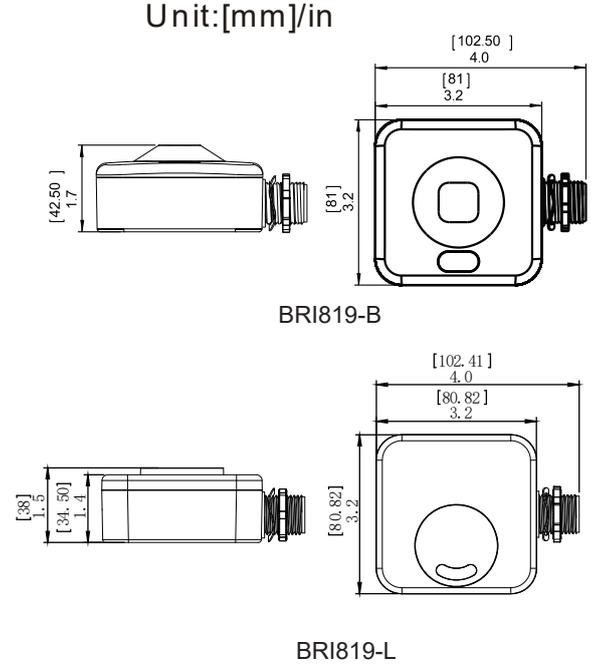
EM1B-2(Indoor use)



# G1/2" Side Mounted Microwave Sensor



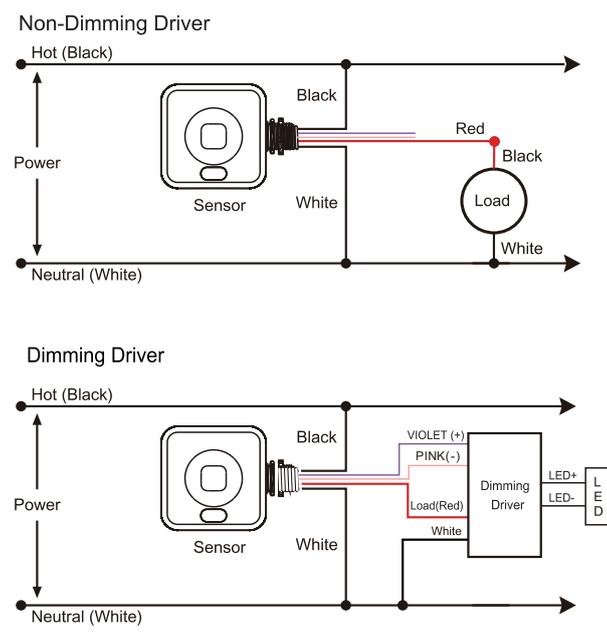
## Dimensions



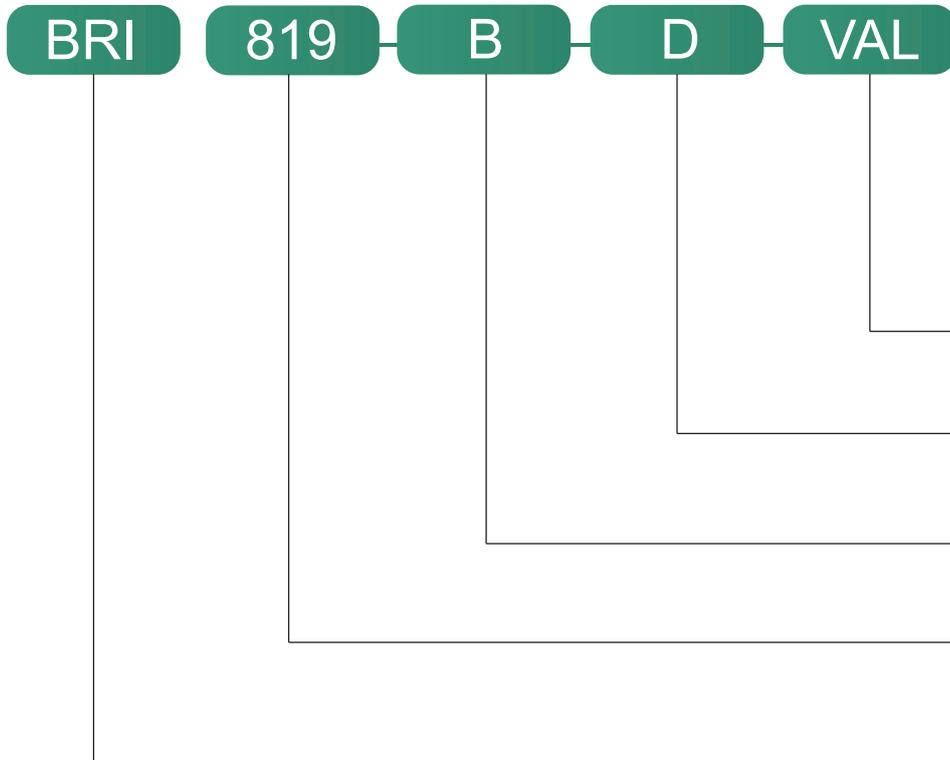
## Technical parameters

Power supply	120/277VAC 50/60Hz
Maximum load @ -40°F ~ +167°F (-40°C ~ +75°C)	Incandescent/Halogen-800W/1200W @120/277V, Fluorescent Ballast/ CFL-800W/1200W@120/277V, Ballast Electronic (LED) - 800/1200VA@120/277V
HF System	5.8GHzCW
Dim control output	0-10V,max.25mA sinking current
Detection radius/angle	30ft/360°
Mounting height	BRI819-B: MAX 40ft BRI819-L: MAX 20ft
Remote range	50ft.(15m) indoor, no backlight
Time setting	10sec.-60min.(adjustable)
Light-control	10-2000Lux(adjustable)
Humidity	Max.95% RH
Temperature	-40°F~158°F(-40°C~70°C)
Parameter Setting	Via DIP Switch & RC100

## Wiring Diagrams



## Ordering Info



**Function Option:**  
VAL: Daylight Harvesting  
Empty: No Daylight Harvesting Function

**Waterproof Option:**  
O: ON/OFF  
D: 0-10V Dimming

**Mode Option:**  
B: High Bay  
L: Low Bay

**Cable Varieties :**  
819: Microwave Sensor & Controls

**Special Requirements :**  
WH: White  
BK: Black

## Additional Accessories



EM1B(Outdoor use)



EM1B-2(Indoor use)



PN-01  
(Extension nut)



# ■ Bi-level Sensor For Wet Locations



**BRI812P-D-A-D & BRI812P-D-A-VAL**  
(Daylight Harvesting)

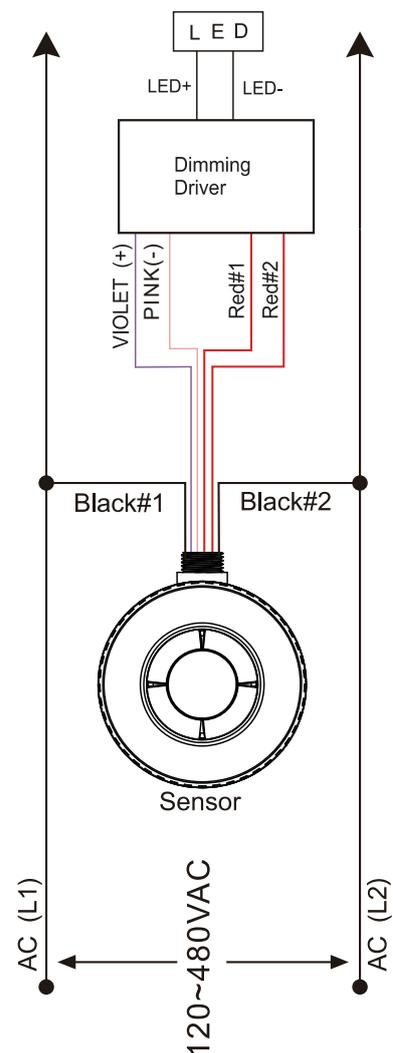


**BRI812P-D-B-D & BRI812P-D-B-VAL**  
(Daylight Harvesting)

## Technical parameters

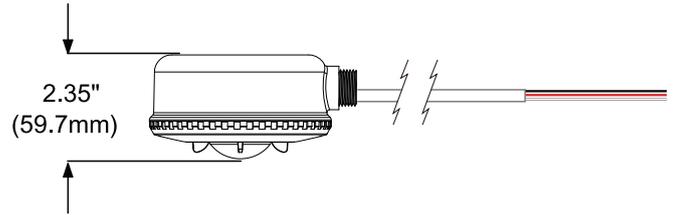
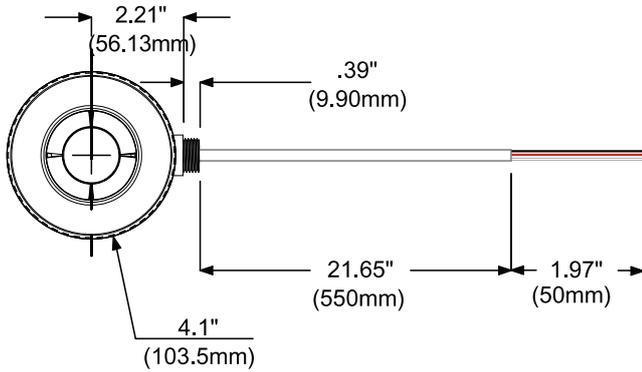
Power supply	120~480VAC 50/60Hz
Maximum load @ -40°F ~ +158°F (-40°C ~ +70°C)	Tungsten -800W@120V/1200W@277V Electronic Ballast -8A@120V/15A@277V 15A@347\Standard ballast-5A@480V
Dim control output	0-10V, max. 25mA sinking current
Detection radius/angle	Max26.2ft.(8m)/360°
Mounting height	Max 40ft.(12m)
Humidity	Max. 95% RH
Temperature	-40°F~+158°F (-40°C ~ +70°C)
Light-control	10-2000Lux(adjustable)
Remote range	33ft. (10m) indoor, no backlight
Time setting	10sec.-30min. (adjustable)
Parameter Setting	Via DIP Switch & RC100

## Wiring Diagrams

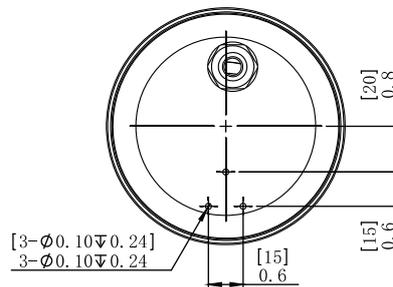
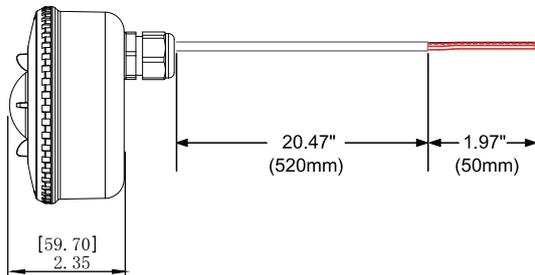


# Dimensions

Unit:[mm]/in



BRI812P-D-A-D



BRI812P-D-B-D

# Ordering Info

Item	Description
BRI812P-D-A-D	120-480V Side Mounted PIR Sensor
BRI812P-D-B-D	120-480V PIR Sensor with Bottom Outlet
PN-01	Extension nut
EM1	Longer Extender for Outdoor
EM1-2	Longer Extender for Indoor
EM1B	Shorter Extender for Outdoor
EM1B-2	Shorter Extender for Indoor
EM2	Metal Accessory



EM1(Outdoor use)



EM1B(Outdoor use)



PN-01  
(Extension nut)



EM1-2(Indoor use)



EM1B-2(Indoor use)



EM2



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# Integrated IP65 PIR Occupancy Sensor



**BRI823-B-D**



L3 (LS2)



L4 (LW1)



LH2

## Additional Accessories

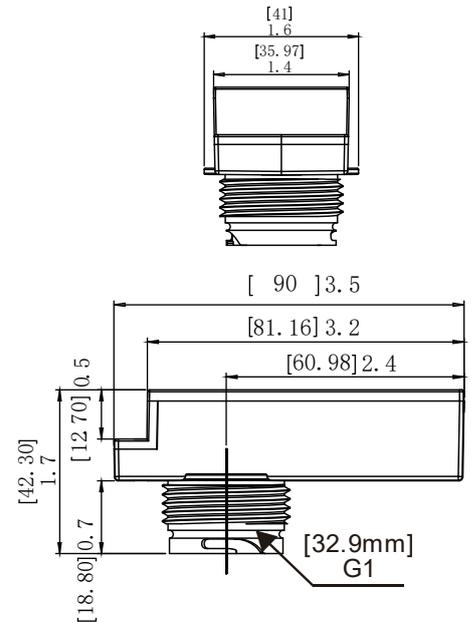
Item	Parameter Setting
L4 (LW1)	Low Bay Lens IP65 Version(Not included)
L3 (LS2)	High Bay Lens IP65 Version (included)
LH2	Lens for 15meters mounting height

## Technical parameters

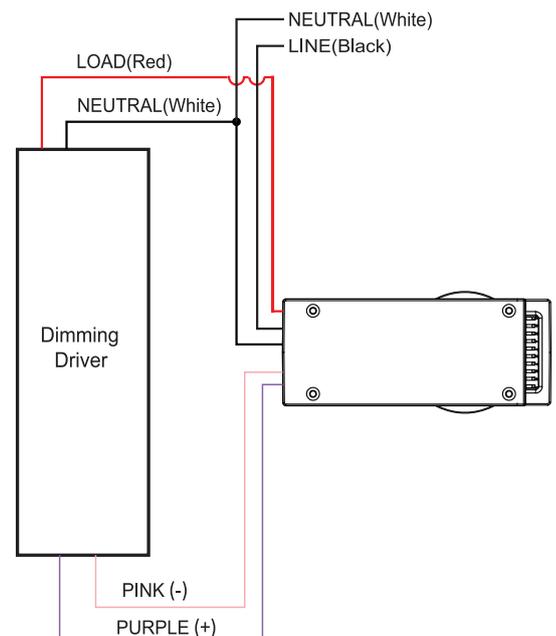
Power supply	120/277VAC 50/60Hz
Maximum load @-40°F ~ +158°F (-40°C - +70°C)	Resistive/Halogen - 800W@120V/1200W@277V Fluorescent Ballast - 660W@120V/1200W@277V Electronic Ballast (LED/CFL) - 5A@120V/5A@277V
Low mode	Off, 0-9.8 V; default 1 V
High mode	0-10 V; default 10 V
Detect Area	360°, maximum coverage 60' diameter from 40' height
Operating temperature	-40-158°F (-40-70°C)
Mounting Height	L3(LW1): 8-20ft, L4(LS2): 20-40ft, LH2: 50ft max
Operating Humidity	20-90%
Parameter Setting	Via DIP Switch & RC100

## Dimensions

Unit:[mm]/in



## Wiring Diagrams





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# “Z” Design Side Mounted IP65 PIR Sensor



**BRI823-X-D**



L3 (LS2)



L4 (LW1)

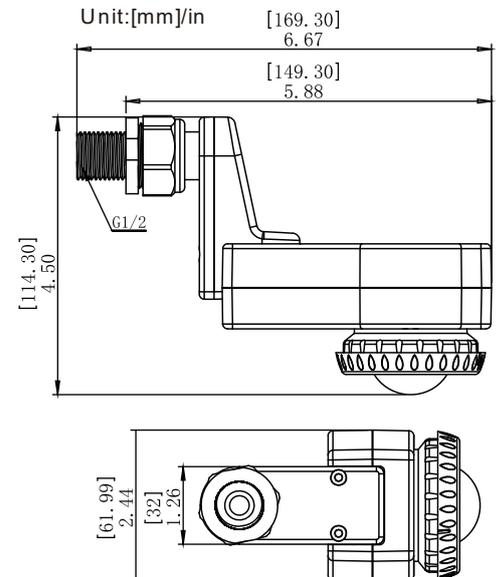


LH2

## Additional Accessories

Item	Parameter Setting
L4 (LW1)	Low Bay Lens IP65 Version(Not included)
L3 (LS2)	High Bay Lens IP65 Version (included)
LH2	Lens for 15meters mounting height

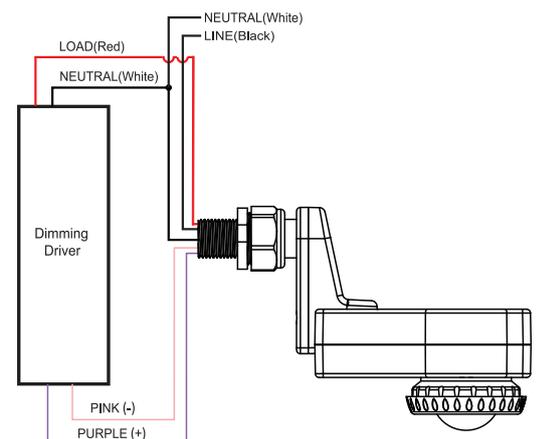
## Dimensions



## Technical parameters

Power supply	120/277 VAC, 50/60Hz
Maximum load @-40°F ~ +158°F (-40°C - +70°C)	Resistive/Halogen - 800W@120V/1200W@277V,Fluorescent Ballast - 660W@120V/1200W@277V,Electronic Ballast (LED/CFL) - 5A@120V/5A@277V
Low mode	Off, 0-9.8 V; default 1 V
High mode	0-10 V; default 10 V
Detect Area	360°, maximum coverage 60' diameter from 40' height
IP66 for PIR LEN(top part of the sensor)	
Warranty	5 years
Humidity	20-90%
Temperature	-40-158°F (-40-70°C)
Parameter Setting	Via RC100
Mounting Height	L3(LW1): 8-20ft,L4(LS2): 20-40ft, LH2: 50ft max

## Wiring Diagrams



NEUTRAL: WHITE 18AWG  
LOAD: RED 18AWG  
LINE: BLACK 18AWG  
DIM+: PURPPLE 22AWG  
DIM-: PINK 22AWG



# Ceiling Mounted Occupancy Sensor



BRI-DT301P



BRI-DT301

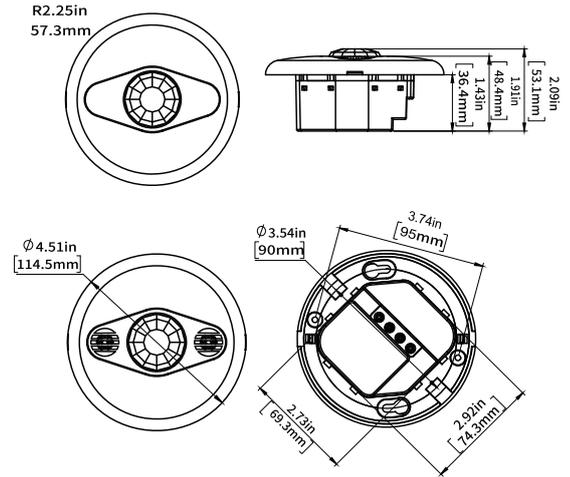


BRI-DT301P-LV



## Dimensions

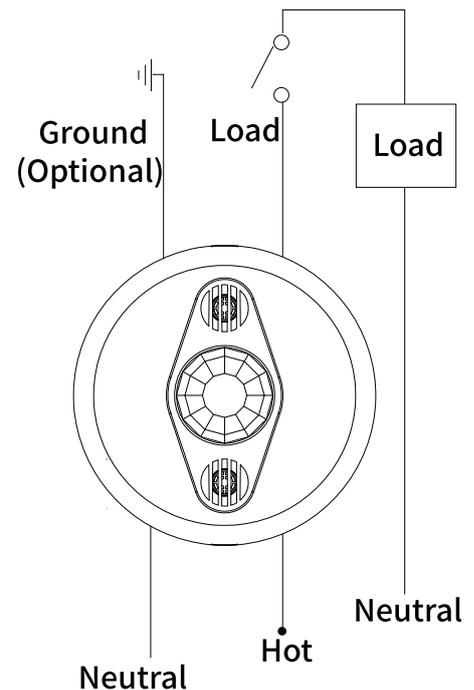
Unit:[mm]/in



## Technical parameters

Power supply	120-347VAC 50/60Hz
Maximum load @ 32°F~+131°F (0°C~+55°C)	@120VAC, 800W Ballast/LED/Tungsten @230VAC, 1200W Ballast/LED/Tungsten @277VAC, 1200W Ballast/LED/Tungsten @347VAC, 1500W Ballast/LED/Tungsten
Detection radius/angle	Max 20ft.(6m)/360°
Mounting height	Max 12ft.(4m)
Ultrasonic Frequency	40kHz(only for Ultrasonic version)
Time setting	10sec./1/5/10/15/20/25/30min.
Light-control	10/20/50/100/200/300/500Lux/Disable
Humidity	Max.95% RH
Operating Temperature	32°F~+131°F(0°C~+55°C)
Mounting options	4 square junction box with double gang mudring; 4 inch octagonal junction box
Parameter setting	Via DIP switches and knobs

## Wiring Diagrams



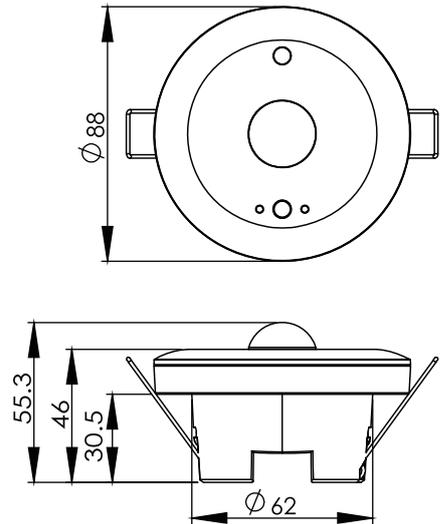
# Infrared Fixture Integrated Ceiling Sensor

## Dimensions



**BRI-CMP305-O**

Unit:mm

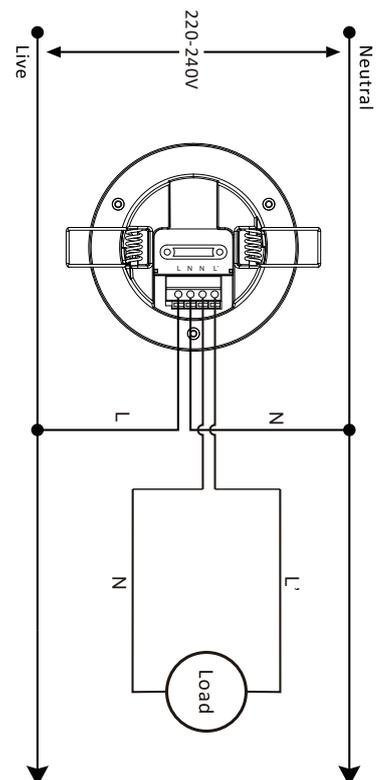


BRI-CMP305-O

## Technical parameters

Power supply	220-240VAC	50/60Hz
Maximum load @ (-40°C ~ +75°C)	Resistive/Tungsten - 600W Electronic Ballast / LED- 1200W	
Detection radius	Max. 4m	
Mounting height	Max. 4m	
Time setting	10sec.-60min.(adjustable)	
Light-control	100/300/500Lux/disable	
Humidity	Max. 95% RH	
Temperature	-20°C ~ +60°C	

## Wiring Diagrams





# Line Voltage Ultrasonic Fixture Integrated Occupancy Sensors

## Dimensions



**BRI-CMU308**



**BRI-CMU308-LV**

Unit:mm

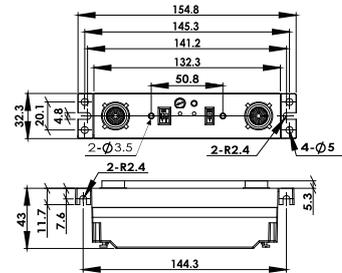


Figure 3a.

**BRI-CMU308**

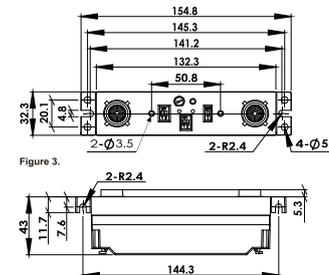


Figure 3.

**BRI-CMU308-LV**

## Technical parameters

Power supply	120/277VAC 50/60Hz
Power Consumption	standby 0.4W, active 1W @ 120 VAC standby 0.6W, active 1.2W @ 277 VAC
HF System	5.8GHz ±75MHz
Transmission power	< 0.2mW
Coverage	@ 8' height at 20° angle from vertical 23' min. linear, 10' min. at 90° on each side @ 10' height parallel to floor 12' min. radius from center
Temperature	32° to 131°F (0° to 55°C)
IP rating	IP65

## Wiring Diagrams

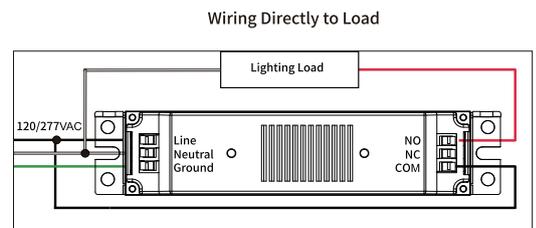


Figure 4.

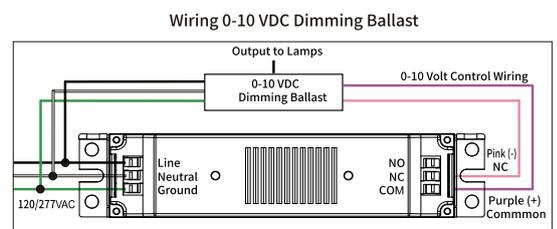


Figure 5.

**NOTE:** Per UL, the 0-10V negative dimming wire color has been changed from gray to pink.



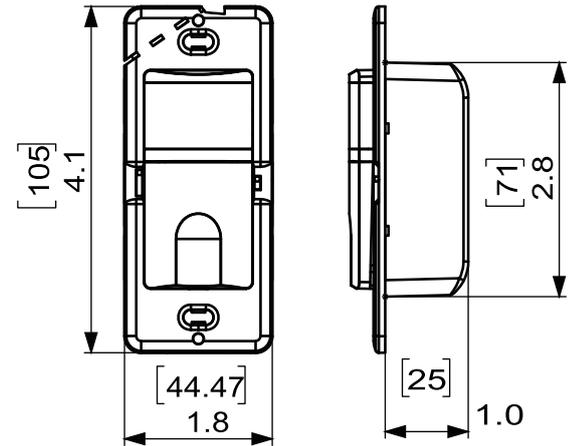
# Line Voltage PIR Wall Switch Sensor

## Dimensions

Unit:[mm]/in



**BRI-VOS201**

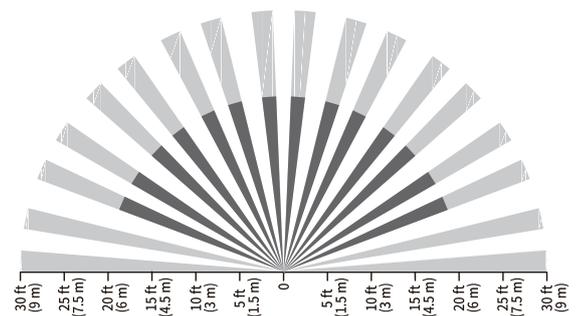


## Technical parameters

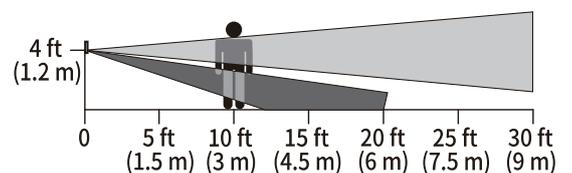
Power Supply	120-277VAC, 50/60Hz
Maximum load @-40°F ~ +158°F (-40°C - +70°C)	LED/CFL 300W Incandescent 600W 1/2HP
Detection radius/angle	Max 30ft(9m)/180°
Mounting Height	12ft
Time setting	10sec./3/10/20min.
Humidity	Max. 95%
Operating Temperature	32 to 104°F(0 to 40°C)
Mode Choose	VAC or OCC
Parameter Setting	Via DIP switch

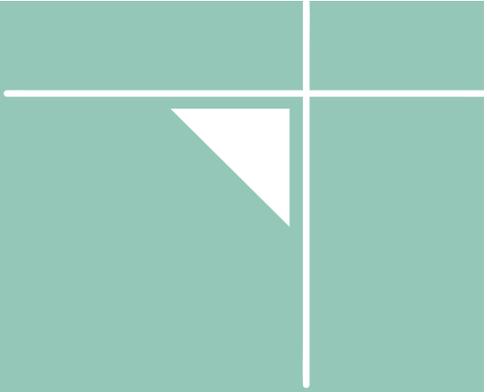
## COVERAGE PATTERNS

Horizontal Beam Diagram



Vertical Beam Diagram





# Low Voltage Sensors.







RoHS CE



# Audio Jack Sensor for Panel



ANT-1P-4T



ANT-1P-4T-BM-2



ANT-1M-5T



ANT-1P-5T



ANT-1P-4B



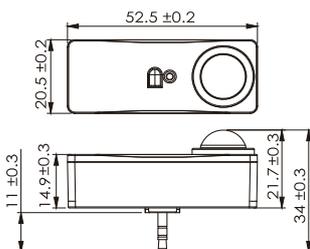
ANT-1P-5B

## Technical parameters

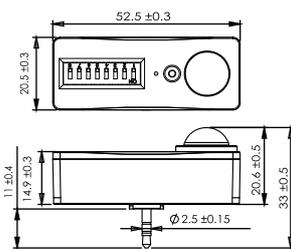
Power supply	12-24V DC, >50mA
Dim control output	0-10V, max. 25mA sinking current
Mounting height	12ft(4m) Max.
Detection angle	360°
Operating temperature	-20°C~60°C
IP rating	IP20
Parameter Setting	Via RC100

## Dimensions

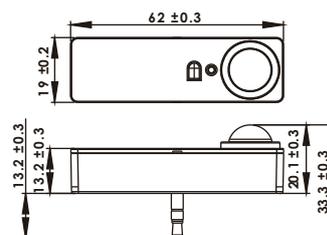
Unit:mm



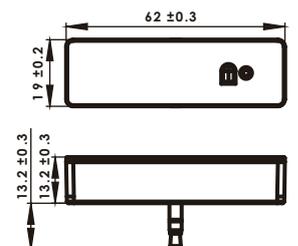
ANT-1P-4B  
(connecting base)



ANT-1P-4T-BM-2  
(sensor)



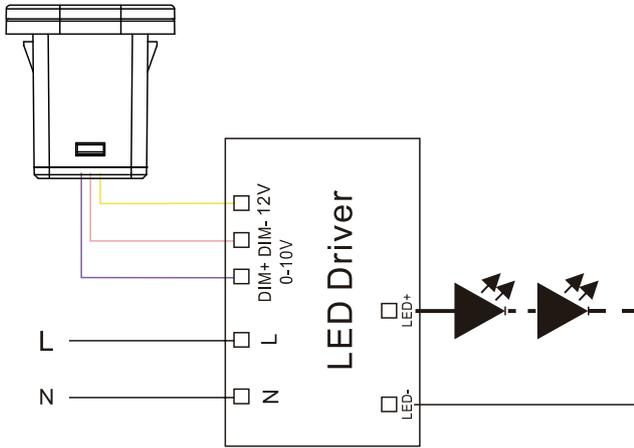
ANT-1P-5B  
(3.5mm Audio Jack Connection)



ANT-1M-5B  
(3.5mm Audio Jack Connection)

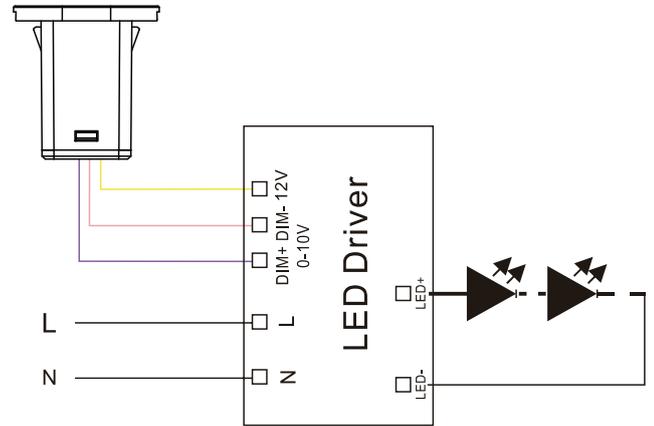
# Wiring Diagrams

Yellow: 12-24Vdc  
 Pink: DIM -  
 Purple: DIM +



ANT-1P-4B (connecting base)

Yellow: 10-14Vdc  
 Pink: DIM -  
 Purple: DIM +



ANT-1P-5B (3.5mm Audio Jack Connection)

# Ordering Info

Item	Description
ANT-1P-4T	2.5mm Audio Jack Sensor for Panel
ANT-1P-4T-BM-2	2.5mm Audio Jack Sensor for Panel
ANT-1M-5T	3.5mm Audio Jack Sensor for Panel
ANT-1P-5T	3.5mm Audio Jack Sensor for Panel
ANT-1P-4B	2.5mm Audio Jack Socket
ANT-1P-5B	3.5mm Audio Jack Socket



RoHS CE



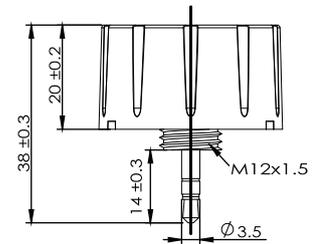
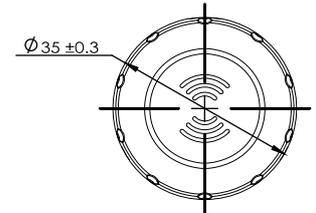
# Bi-level Microwave Sensor For High Bay Light

## Dimensions

Unit:mm



**ANT-21-4T**

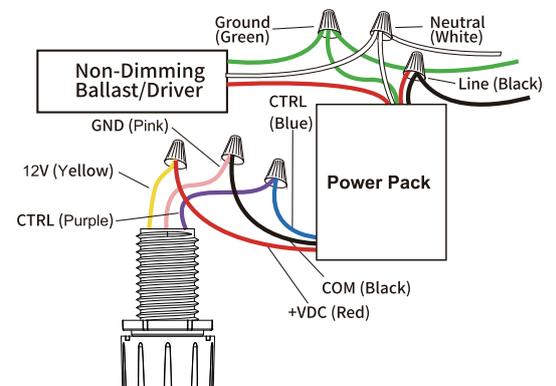


ANT-21-4T

## Technical parameters

Power supply	10V-14V DC, >50mA
Dim control output	0-10V, max. 25mA sinking current
HF System	5.8GHz $\pm$ 75MHz
Transmission power	< 0.2mW
Detection radius	20%/50%/75%/100%(1-8m)
Mounting height	Max 40ft.(12meters)
Time setting	10s/1min/5min/10min/ 15min/20min/30min/60min
Light-control	24H/10LUX/30LUX/50LUX
Temperature	40°F~+158°F (-40°C~+70°C)
IP rating	IP65

## Wiring Diagrams





RoHS CE



# Daylight Harvesting PIR Sensor



**ANT-1C**



Optional

## Ordering Info

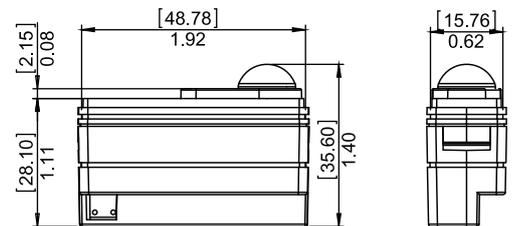
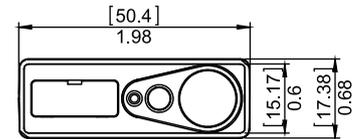
Item	Description
ANT-1C	Daylight Harvesting PIR Sensor
Accessory	Bracket for ANT-1C (Optional)
RC105	Remote control for parameter setting

## Technical parameters

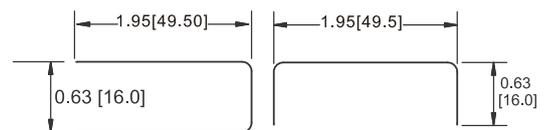
Power supply	10V-28V DC, >50mA
Dim control output	0-10V, max.25mA sinking current
Mounting height	12ft Max.
Color coding of cable	Input : PINK-,YELLOW +, Dimming : PURPLE+,PINK-
Cable length	100cm
Detection angle	120°
Operating temperature	20°C~70°C
IP rating	IP20
Parameter Setting	Via DIP Switch & RC105

## Dimensions

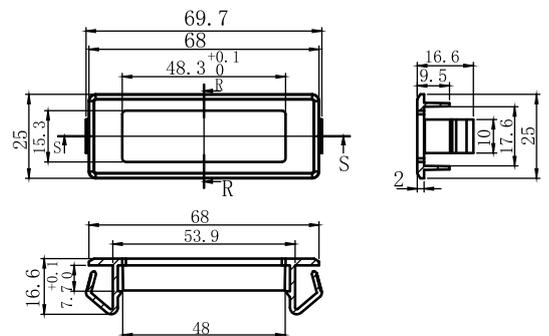
Unit:[mm]/in



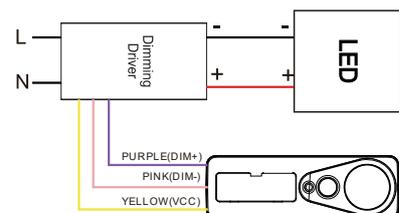
Mounting in U-shaped slot in sheet metal (max thickness 1 mm), tolerance +0.2mm/-0.0mm



Optional



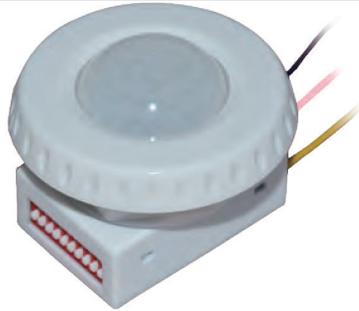
## Wiring Diagrams



ANT-1C wiring with 10~28VDC wire dimming ballast or LED driver.



# Integrated IP65 PIR Occupancy Sensor



**BRI619**



L3 (LW1)



L4 (LS2)



LH2

## Additional Accessories

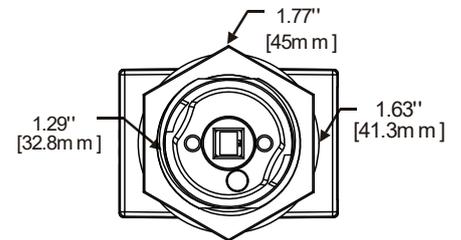
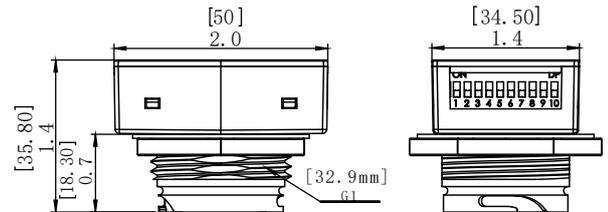
Item	Parameter Setting
L3 (LW1)	Low Bay Lens IP65 Version(Not included)
L4 (LS2)	High Bay Lens IP65 Version (included)
LH2	Lens for 15meters mounting height

## Technical parameters

Power supply	12-24V DC
Dim control output	0-10V, max. 25mA sinking current
Detection radius/angle	30FT@40FT Height/360°
Mounting height	Max 40ft. @L4, Max 50ft @ LH2, Max 24ft. @ L3
Remote range	50ft. (15m) indoor, no backlight
Humidity	Max. 95% RH
Temperature	-40°F ~ +167°F (-40°C ~ +75°C)
Parameter Setting	Via DIP Switch & RC100

## Dimensions

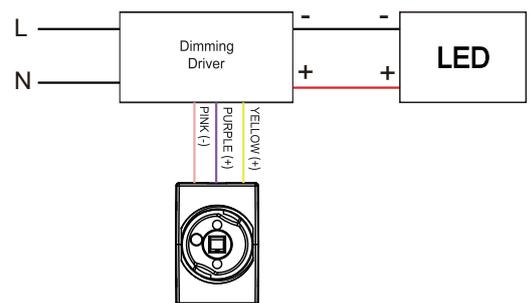
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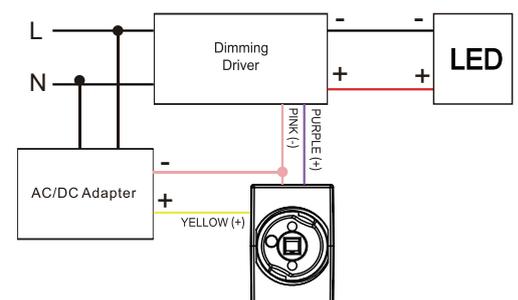
BRI619

## Wiring Diagrams

BRI619 wiring with 12-24V DC wire dimming ballast or LED driver.



BRI619 Wiring by AC/DC Adapter with dimming ballast or led driver.





# Microwave Sensor with DIP Switch



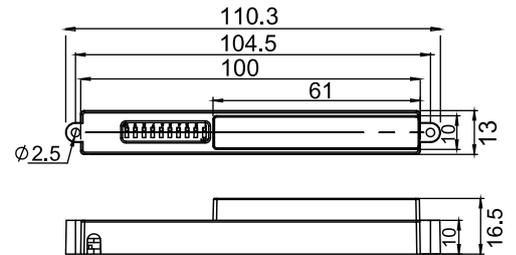
**ANT-3A**



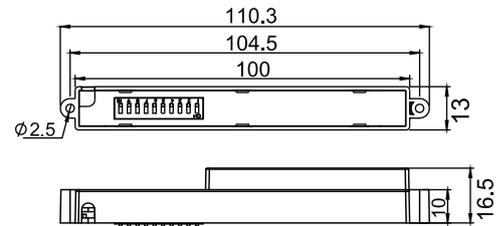
**ANT-3B**

## Dimensions

Unit:mm



ANT-3A



ANT-3B

## Ordering Info

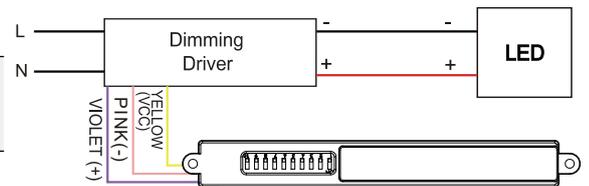
Item	Description
ANT-3A	Microwave Sensor with DIP Switch in front
ANT-3B	Microwave Sensor with DIP Switch on the back

## Technical parameters

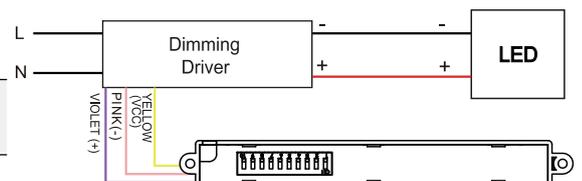
Power supply	10-14V DC, >50mA
HF System	5.8GHz+75MHz
Dim control output	0-10V, max. 25mA sinking current
Detection radius/angle	Max 17ft.(5.2m)/360°
Mounting height	Max 13ft(4m)
Remote range	50ft. (15m) indoor, no backlight
Humidity	Max.95% RH
Temperature	-40°F~158°F(-40°C~70°C)
Parameter Setting	Via DIP Switch & RC100

## Wiring Diagrams

ANT-3A wiring with dimming ballast or LED driver.



ANT-3B wiring with dimming ballast or LED driver.





# Microwave Sensor with Clips



**ANT-3C**



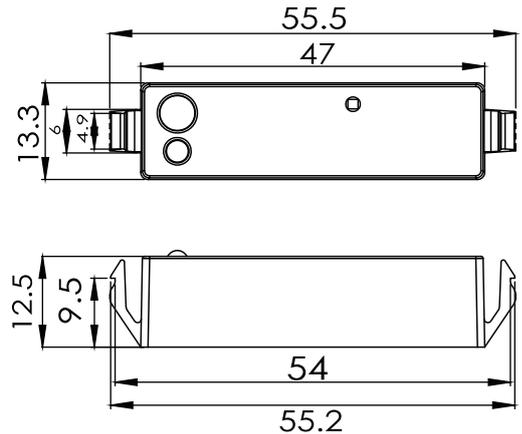
**ANT-3C-B1**



**ANT-3C-B2**

## Dimensions

Unit:mm



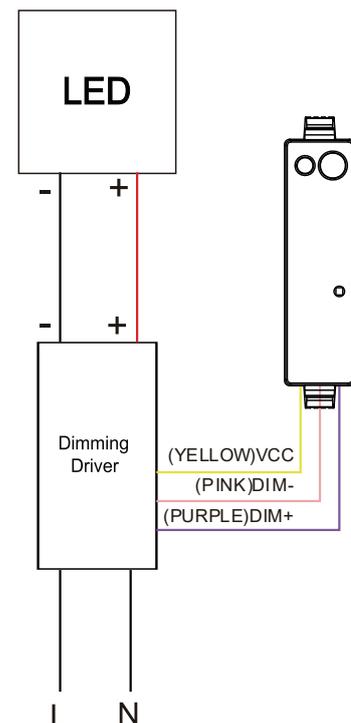
## Ordering Info

Item	Description
ANT-3C	Microwave Sensor with Clips, No DIP Switch, Only RC100
ANT-3C-B1	Microwave Sensor with Clips, DIP Switch and RC100
ANT-3C-B2	Microwave Sensor with Clips, Only DIP Switch

## Technical parameters

Power supply	10-14V DC, >50mA
HF System	5.8GHz+75MHz
Dim control output	0-10V, max. 25mA sinking current
Detection radius/angle	Max 12ft.(4m)/360°
Mounting height	Max 12ft.(4m)
Remote range	50ft. (15m) indoor, no backlight
Humidity	Max.95% RH
Temperature	-40°F~158°F(-40°C~70°C)

## Wiring Diagrams



Wiring with dimming ballast or LED driver.



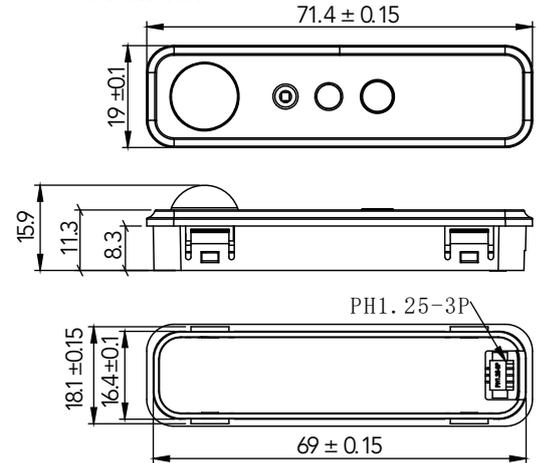
# Super Slim Snap in PIR Sensor



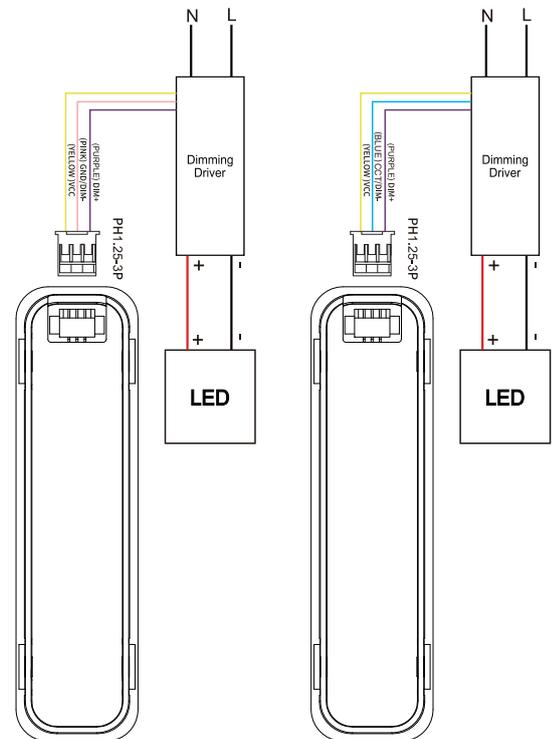
## ANT-3P & ANT-3P-CCT

### Dimensions

Unit:mm



### Wiring Diagrams



### Technical parameters

Power supply	10-14V DC, >50mA
Dim control output	0-10V, max. 25mA sinking current
Mounting height	12ft(4m) Max.
Detection angle	360°
Operating temperature	-20℃~60℃
IP rating	IP20
Parameter Setting	Via RC100



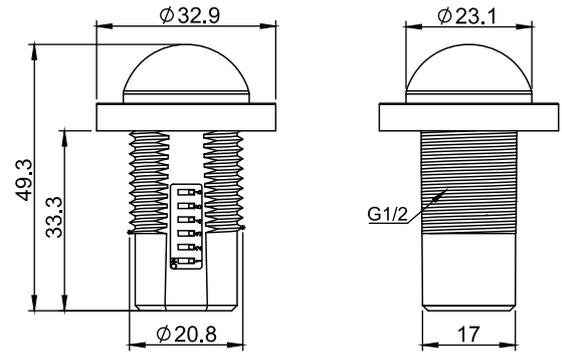
# Fixture-Integrated Round PIR Sensor



**ANT-4A**

## Dimensions

Unit:mm



(Punch-out diameter 21.5mm)

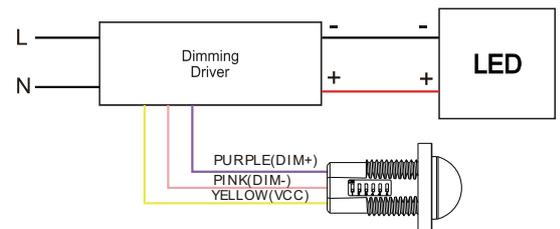
ANT-4A

## Technical parameters

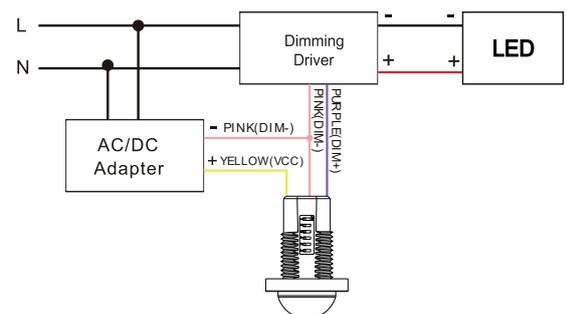
Power supply	12V DC , >50mA
Dim control output	0-10V, max.25mA sinking current
Mounting height	15ft(4.5m)Max.
Color coding of cable	Input :Yellow(Vcc),Pink(-), Dimming :Purple(+),Pink(-)
Detection angle	120°
Operating temperature	-20°C~70°C
IP rating	PI 20
Warm up time	40seconds ( Connect low voltage by first time )
Setting	Dip switch or remote control ( the settings by the last time operation )
Parameter Setting	Via DIP Switch and RC100

## Wiring Diagrams

ANT-4A wiring with 12VDC wire dimming ballast or LED driver.



ANT-4A Wiring by AC/DC Adapter with dimming ballast or led driver.





# Snap in Round PIR Sensor



ANT-4E



ANT-4E-2



ANT-4E-3



ANT-4E-4  
ANT-4E-4-EM  
(Work with Emergency kit)  
ANT-4E-4-BM



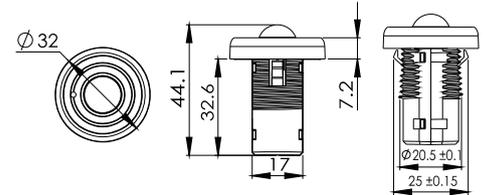
ANT-4E-5



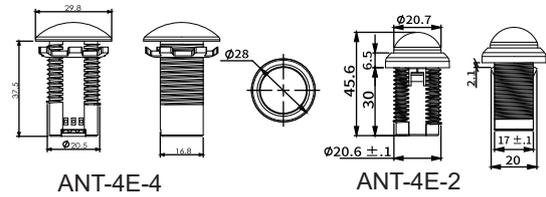
ANT-4E-6  
(IP60)

## Dimensions

Unit:mm

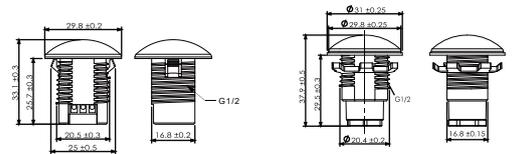


ANT-4E-3



ANT-4E-4

ANT-4E-2



ANT-4E-5

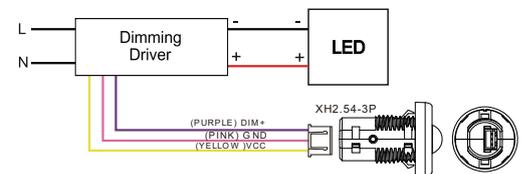
ANT-4E-6

## Technical parameters

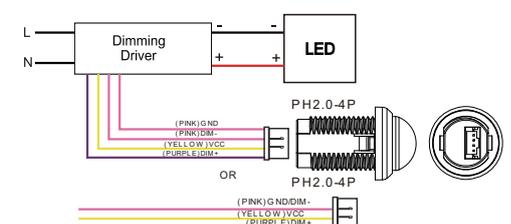
Power supply	10V-14V DC, >30mA
Dim control output	0-10V, max.25mA sinking current
Remote range	50ft.(15m)indoor, no backlight
Detection radius	20%/50%/75%/100%(1-8m)
Mounting height	ANT-4E/ANT-4E-3/-4/-5/-6:12ft, ANT-4E-2: 20ft
Time setting	10s/1min/5min/10min/15min/20min/ 30min/60min
Light-control	24H/10LUX/30LUX/50LUX
Temperature	-4°F~+140°F(-20°C~+60°C)
IP rating	IP20 (ANT-4E-6:IP60)
Parameter Setting	Via RC100

## Wiring Diagrams

ANT-4E wiring with 10-14VDC wire dimming ballast or LED driver.



ANT-4E-2 wiring with 10-14VDC wire dimming ballast or LED driver.





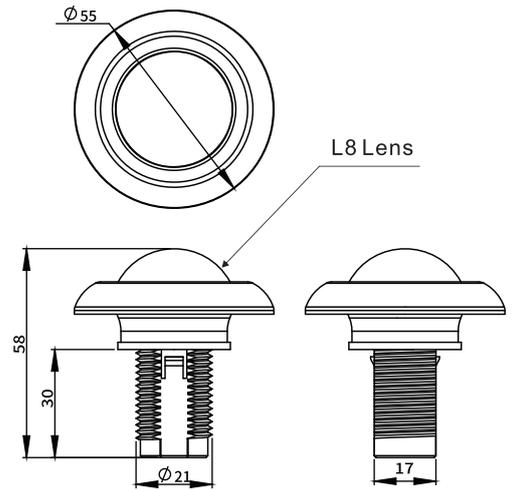
# Fixture-Integrated High Bay Sensor



**ANT-4D**

## Dimensions

Unit:mm



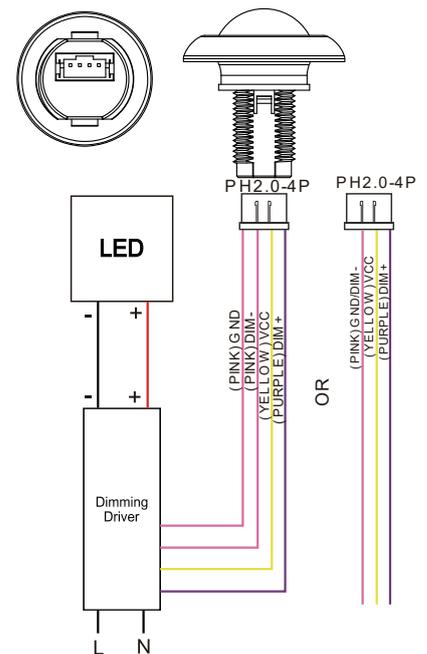
ANT-4A

## Technical parameters

Power supply	10V-14V DC, >30mA
Dim control output	0-10V, max.25mA sinking current
Remote range	50ft.(15m)indoor, no backlight
Detection radius	20%/150%/75%/100%(1-8m)
Mounting height	Max 40ft.(12meters)
Time setting	10s/1min/5min/10min/15min/20min/ 30min/60min
Light-control	24H/10LUX/30LUX/50LUX
Temperature	-4°F~+140°F(-20°C~+60°C)
IP rating	IP20

## Wiring Diagrams

ANT-4D wiring with 10-14VDC wire dimming ballast or LED driver.





RoHS CE



# Bi-Level Microwave Sensor



ANT-5-1



ANT-5-2



ANT-5-3



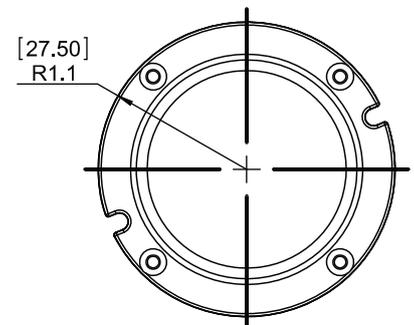
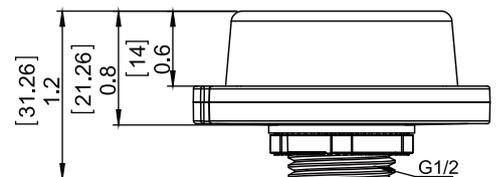
ANT-5-5

## Technical parameters

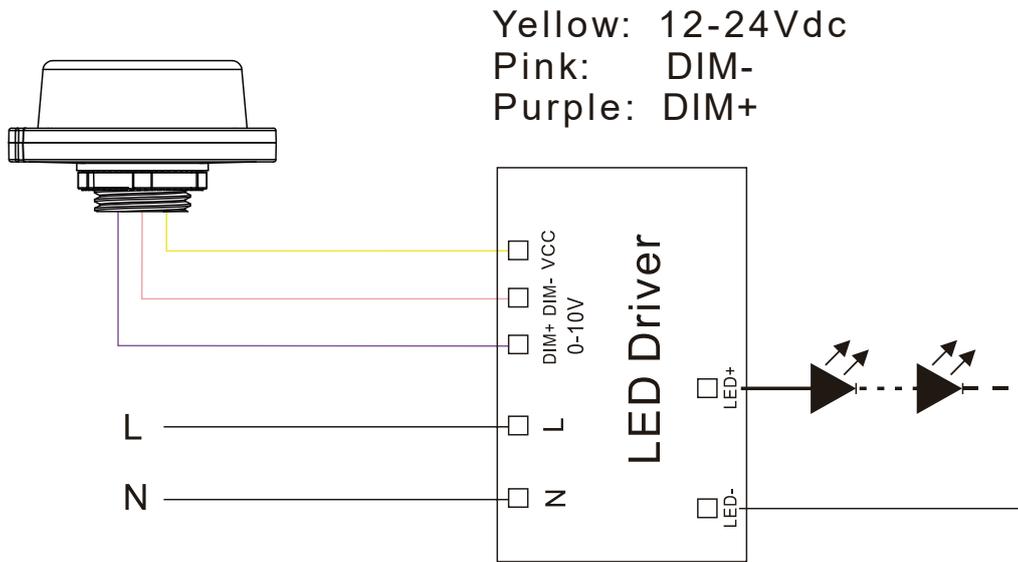
Power supply	12V-24V DC, >50mA
HF System	5.8GHz+75MHz
Dim control output	0-10, max.25mA sinking current
Detection radius/angle	Max 12ft.(4m)/360°
Mounting height	Max 40ft.(15meters)
Remote range	50ft. (15m) indoor, no backlight
Humidity	Max.95% RH
Temperature	-4°F~+140°F(-20°C~+60°C)
Parameter Setting	Via RC100
Transmission power	<0.2mW
Detection radius	20%/50%/75%/100%(1-8m)
Time setting	10s/1min/5min/10min/15min/20min/ 30min/60min
IP rating	IP65

## Dimensions

Unit:[mm]/in



# Wiring Diagrams



# Ordering Info

ANT

**Product Series:**  
 ANT: Low Voltage

5

**Product Model:**  
 5: Microwave Sensor & Controls

1

**Outlet Structure:**  
 1: Waterproof Connector & male female plug sheath wire  
 2: Waterproof Connector & sheath wire  
 3: Waterproof Connector & without wire  
 5: Sheath wire & without Waterproof Connector

VAL

**Function Option:**  
 Empty: 0-10V Dimming  
 VAL: Daylight Harvesting  
 EM: can work with emergency kit  
 PC: Photocell Function

R2

**Remote Control Option:**  
 Empty: Via RC100  
 R2: RC200  
 R3: RC300



RoHS CE



# Bi-Level PIR Sensor



ANT-6-1



ANT-6-2



ANT-6-3



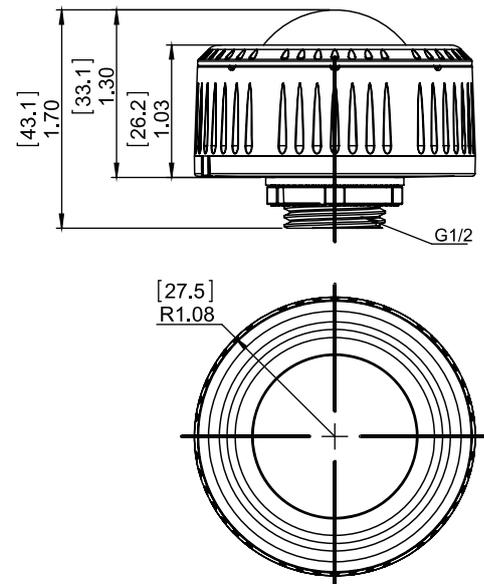
ANT-6-5

## Technical parameters

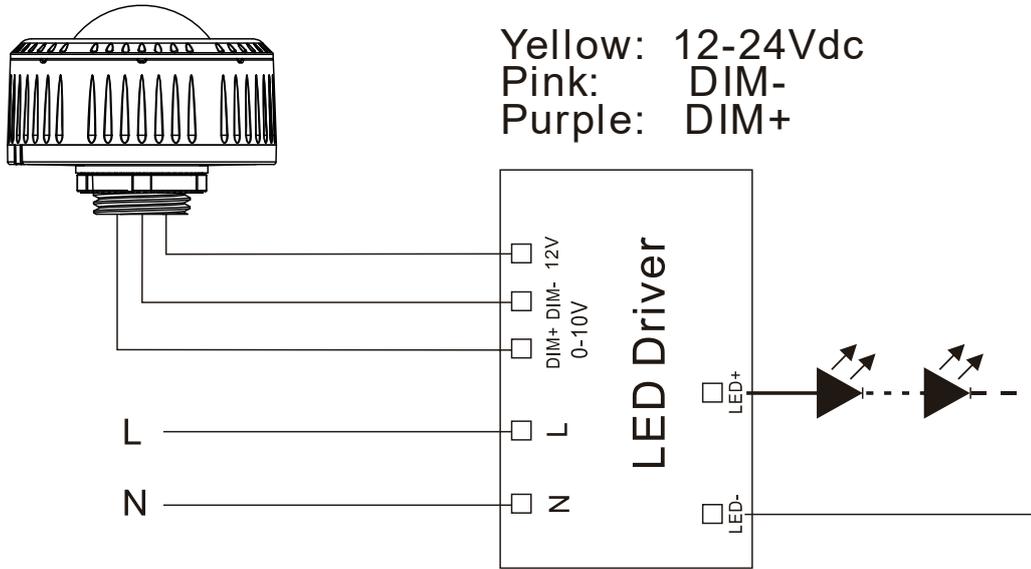
Power supply	12V-24V DC, >30mA
Dim control output	0-10V, max. 25mA sinking current
Remote range	50ft.(15m)indoor, no backlight
Dim control output	0-10V
Detection radius	20%/50%/75%/100%(1-8m)
Mounting height	Max 40ft.(12meters)
Time setting	10s/1min/5min/10min/15min/20min/30min/60min
Light-control	24H/10LUX/30LUX/50LUX
Temperature	-4°F~+140°F(-20°C~+60°C)
IP rating	IP65
Parameter Setting	Via RC100

## Dimensions

Unit:[mm]/in



# Wiring Diagrams



# Ordering Info

ANT

**Product Series:**  
 ANT: Low Voltage

6

**Product Model:**  
 6: PIR Sensor & Controls

1

**Outlet Structure:**  
 1: Waterproof Connector & male female plug sheath wire  
 2: Waterproof Connector & sheath wire  
 3: Waterproof Connector & without wire  
 5: Sheath wire & without Waterproof Connector

VAL

**Function Option:**  
 Empty: 0-10V Dimming  
 VAL: Daylight Harvesting  
 EM: can work with emergency kit

R2

**Remote Control Option:**  
 Empty: Via RC100  
 R2: RC200  
 R3: RC300



RoHS CE



# Plug and Play PIR Sensors



ANT-6-4H

ANT-6-4R



ANT-6-Z10

ANT-6-ZT



ANT-6-4T(Audio Jack)  
&ANT-6-4T-EM  
(Work with Emergency kit)



ANT-6-4T-KN

## Ordering Info

ANT

6

4T

KN

VAL

R2

**Product Series:**

ANT: Low Voltage

**Product Model:**

6: PIR Sensor & Controls

**Outlet Structure:**

4T: 3.5mm Audio Jack

4R: Shorter 3PIN

4H: Longer 3PIN

ZT: Zhaga Book 18

Z10: Z10 Socket

ZT10: can work with Zhaga Book 18 and Z10 socket

**Parameter Setting Methods:**

Empty: Via Remote Control

KN: Via Knobs and Remote Control  
(only audio Jack has)

**Function Option:**

Empty: 0-10V Dimming

VAL: Daylight Harvesting

EM: can work with emergency kit

**Remote Control Option:**

Empty: Via RC100

R2: RC200

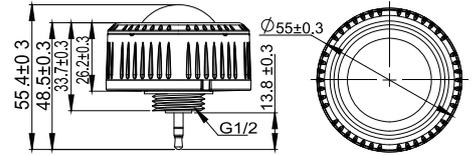
R3: RC300

# Technical parameters

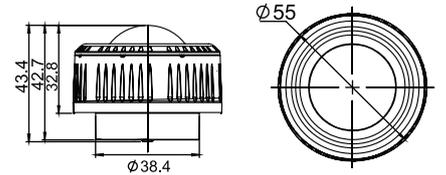
Power supply	12V-24V DC, >30mA
Dim control output	0-10V, max. 25mA sinking current
Remote range	50ft. (15m) indoor, no backlight
Dim control output	0-10V
Time setting	10s/1min/5min/10min/15min/ 20min/30min/60min
Mounting height	Max 40ft.(12meters)
Detection radius	20%/50%/75%/100%(1-8m)
Light-control	24H/10LUX/30LUX/50LUX
Temperature	-4°F~-+140°F (-20°C~+60°C)
IP rating	IP65
Parameter Setting	Via Remote Control or Knobs

# Dimensions

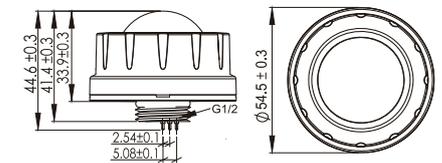
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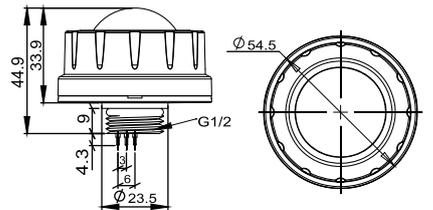
ANT-6-4T&ANT-6-4T-EM



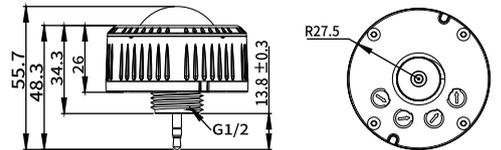
ANT-6-ZT&ANT6-Z10



ANT-6-4R

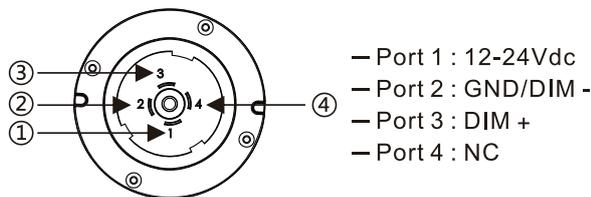


ANT-6-4H

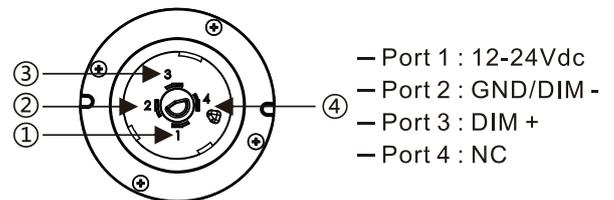


ANT-6-4T-KN

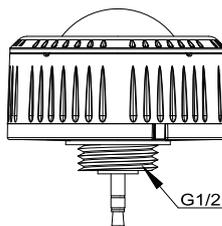
# Wiring Diagrams



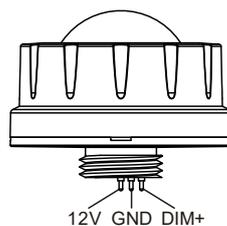
ANT-6-ZT



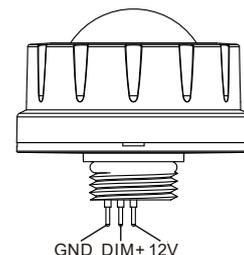
ANT-6-Z10



ANT-6-4T  
ANT-6-4T-EM  
ANT-6-4T-KN



ANT-6-4R



ANT-6-4H



RoHS CE



# 50FT Plug and Play PIR Sensor



ANT-6-4R-H



ANT-6-ZT10-H



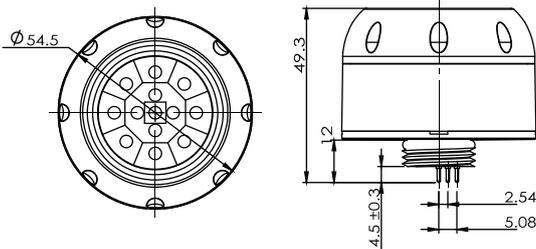
ANT-6-4T-H



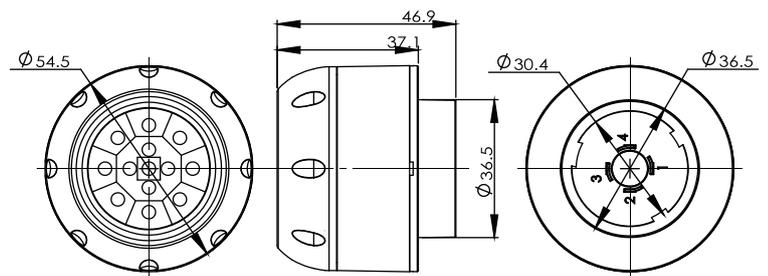
ANT-6-4H-H

## Dimensions

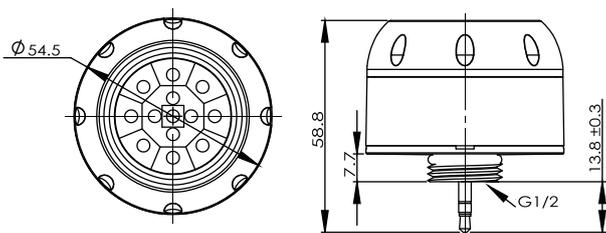
Unit:mm



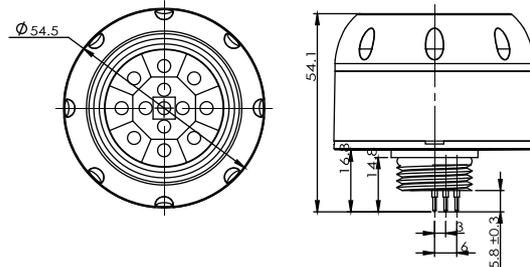
ANT-6-4R-H



ANT-6-ZT10-H



ANT-6-4T-H

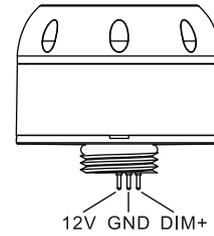


ANT-6-4H-H

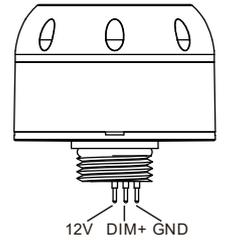
## Technical parameters

Power supply	12V-24V DC, >30mA
Dim control output	0-10V, max. 25mA sinking current
Remote range	50ft. (15m) indoor, no backlight
Dim control output	0-10V
Time setting	10s/1min/5min/10min/15min/ 20min/30min/60min
Mounting height	Max 50ft.(15meters)
Detection radius	20%/50%/75%/100%(1-8m)
Light-control	24H/10LUX/30LUX/50LUX
Temperature	-4°F~-140°F (-20°C~+60°C)
IP rating	IP65
Parameter Setting	Via Remote Control or Knobs

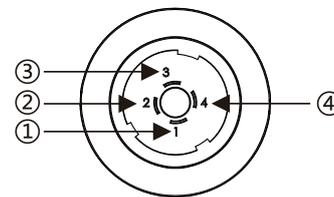
## Wiring Diagrams



ANT-6-4R-H

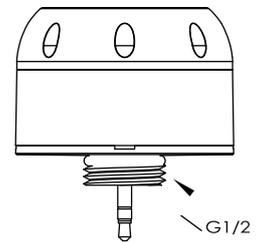


ANT-6-4H-H



- Port 1: 12-24VDC
- Port 2: DIM-/GND
- Port 3: DIM +
- Port 4: DIM+

ANT-6-ZT10-H



ANT-6-4T-H

## Installation diagram

The detection patterns are based upon 5km/h movement speed

15m

Height of installation 13-50ft



RoHS CE



# Plug and Play Microwave Sensors



## Ordering Info

ANT

**Product Series:**  
ANT: Low Voltage

5

**Product Model**  
5: Microwave Sensor & Controls

4T

**Outlet Structure:**  
4T: 3.5mm Audio Jack  
4R: Shorter 3PIN  
4H: Longer 3PIN  
ZT: Zhaga Book 18  
Z10: Z10 Socket  
ZT10: can work with Zhaga Book 18 and Z10 socket

VAL

**Function Option:**  
Empty: 0-10V Dimming  
VAL: Daylight Harvesting  
EM: can work with emergency kit  
PC: Photocell Function

R2

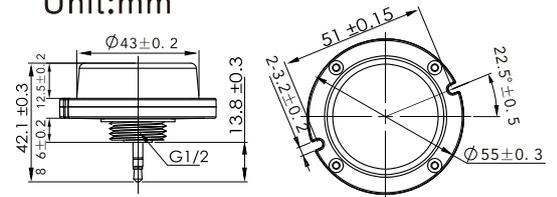
**Remote Control Option:**  
Empty: Via RC100  
R2: RC200  
R3: RC300

# Technical parameters

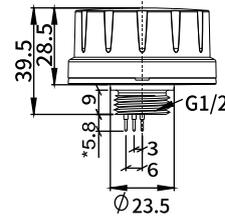
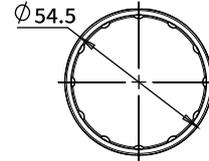
Power supply	12V-24V DC, >50mA
Dim control output	0-10V, max. 25mA sinking current
HF System	5.8GHz CW
Transmission power	<0.2mW
Detection radius	20%/50%/75%/100%(1-8m)
Mounting height	Max 40ft.(12meters)
Time setting	10s/1min/5min/10min/15min/20min/ 30min/60min
Light-control	24H/10LUX/30LUX/50LUX
Temperature	-40°F ~ +158°F (-40°C ~ +70°C)
IP rating	IP65
Parameter Setting	Via Remote Control

# Dimensions

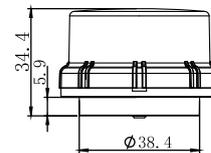
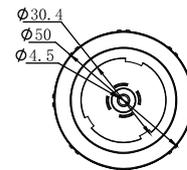
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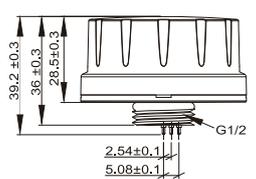
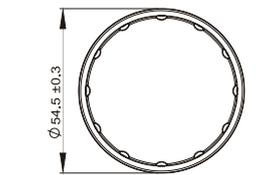
ANT-5-4T



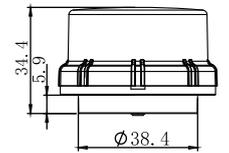
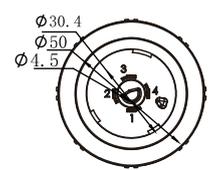
ANT-5-4H



ANT-5-ZT



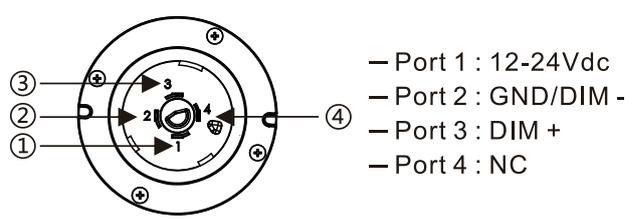
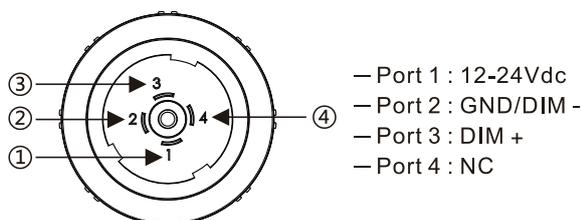
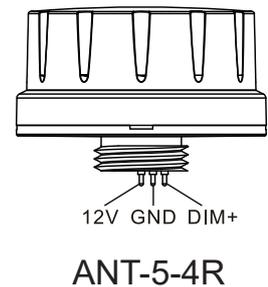
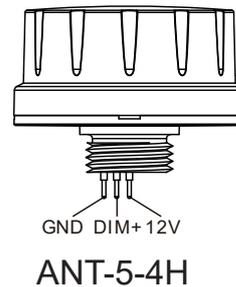
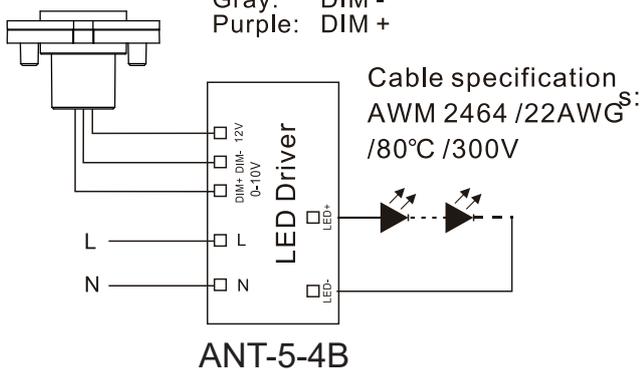
ANT-5-4R



ANT-5-Z10

# Wiring Diagrams

Black: 12-24Vdc  
Gray: DIM -  
Purple: DIM +





RoHS CE



# Microwave Sensor with Magnets



**ANT-7 & ANT-7-H**

## Ordering Info

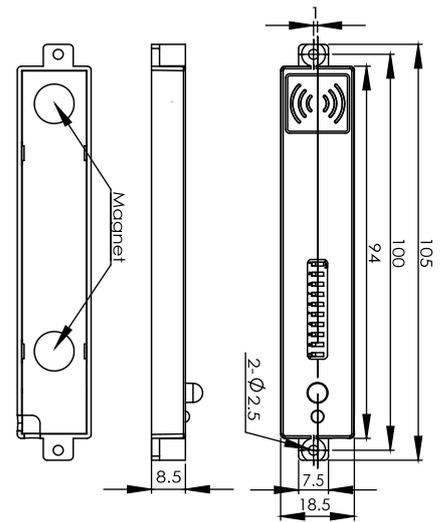
Item	Description
ANT-7	12FT Microwave Sensor with Magnets
ANT-7-H	20FT Microwave Sensor with Magnets

## Technical parameters

Power supply	12-24V DC, >50mA
HF System	5.8GHz+75MHz
Dim control output	0-10V, max. 25mA sinking current
Detection radius/angle	Max 17ft.(5.2m)/360°
Mounting height	ANT-7:Max 13ft.(4m) ANT-7-H:Max 20ft(6m)
Remote range	50ft. (15m) indoor, no backlight
Humidity	Max.95% RH
Temperature	-40°F~-+158°F(-40°C~-+70°C)
Parameter Setting	Via DIP Switch and RC100

## Dimensions

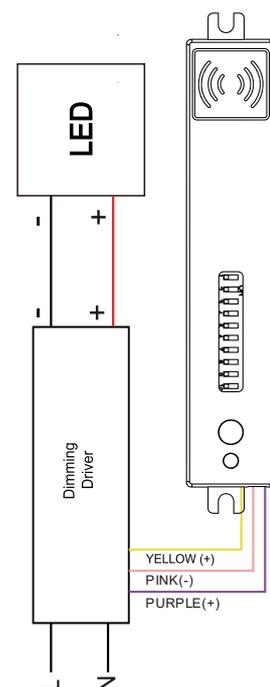
Unit:mm



ANT-7

## Wiring Diagrams

ANT-7 wiring with dimming ballast or LED driver.





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# Occupancy Sensor with Magnets



**ANT-7P**



**ANT-7D**

## Ordering Info

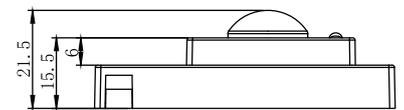
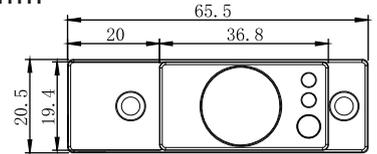
Item	Description
ANT-7D	Microwave Sensor with Magnets
ANT-7P	PIR Sensor with Magnets

## Technical parameters

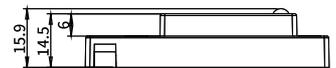
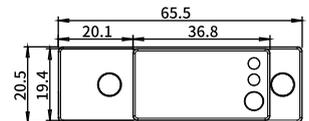
Power supply	12-24V DC, >50mA
HF System	5.8GHz+75MHz
Dim control output	0-10V, max. 25mA sinking current
Detection radius/angle	Max 17ft.(5.2m)/360°
Mounting height	Max 13ft.(4m)
Remote range	50ft. (15m) indoor, no backlight
Humidity	Max.95% RH
Temperature	-40°F~+158°F(-40°C~+70°C)
Parameter Setting	Via RC100

## Dimensions

Unit:mm



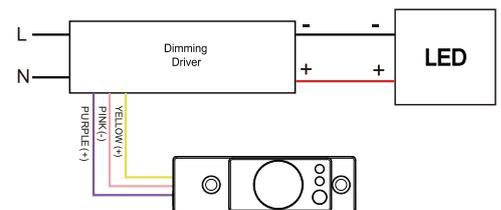
ANT-7P



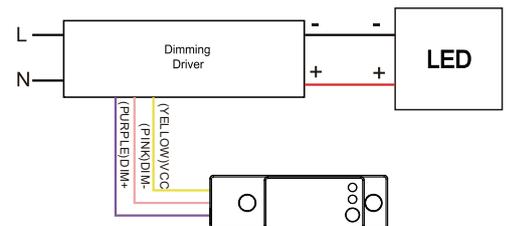
ANT-7D

## Wiring Diagrams

ANT-7 wiring with dimming ballast or LED driver.



ANT-7D Wiring with dimming ballast or LED driver.





RoHS CE



# Plug and Play PIR Sensor



ANT-703P-A



ANT-703P-B



ANT-703P-C



ANT-5-21B



ANT-5-22B



L7  
(Low bay)



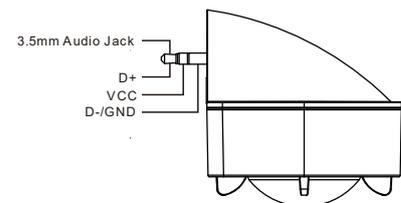
L8  
(High bay lens included)

## Technical parameters

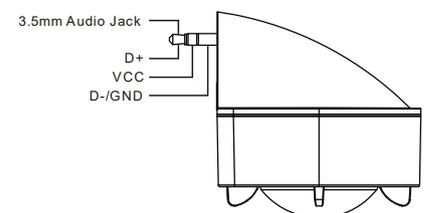
Power supply	12V-24V DC, >50mA
Dim control output	0-10V, max. 30mA sinking current
L7 Lens(low bay)	Max.detection radius 23ft; Max.mounting height 13ft
L8 Lens(high bay)	Max.detection radius 23ft; Max.mounting height 40ft
Time setting	10s/1min/5min/15min
Light-control	300LUX/500LUX/800LUX/Disable
Humidity	Max. 95% RH
Operating Temperature	-4°F~+140°F (-20°C~+60°C)
IP rating	IP65
Parameter Setting	Via DIP Switch and RC100

## Wiring Diagrams

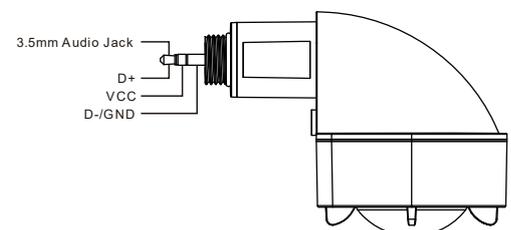
ANT-703P-A



ANT-703P-B



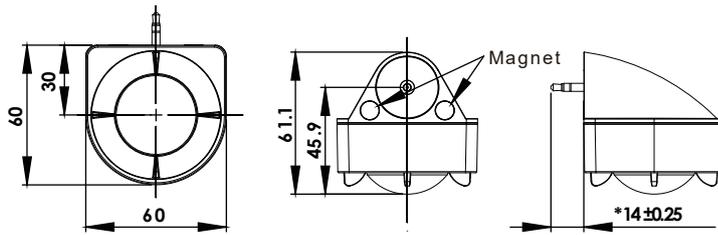
ANT-703P-C



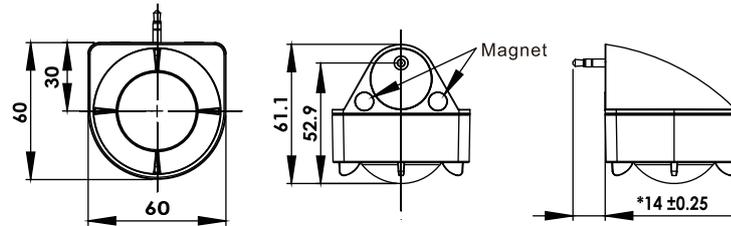
# Dimensions

Unit:mm

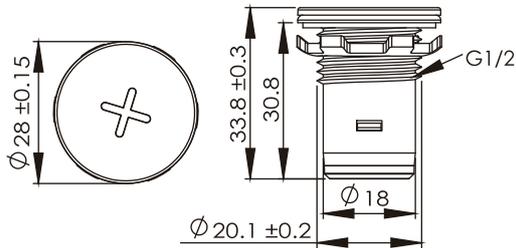
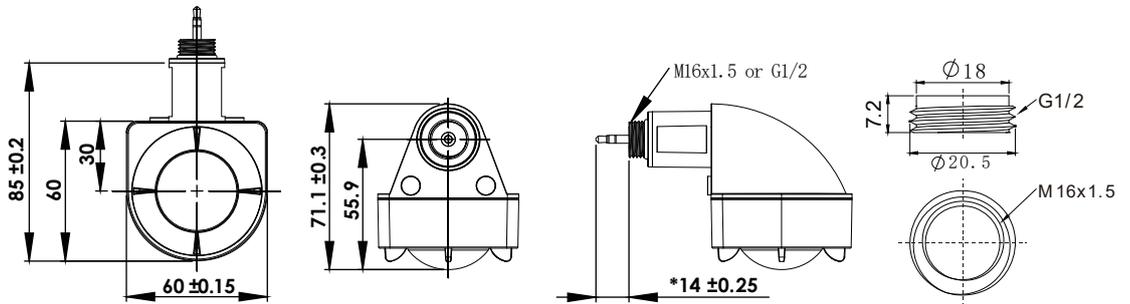
ANT-703P-A



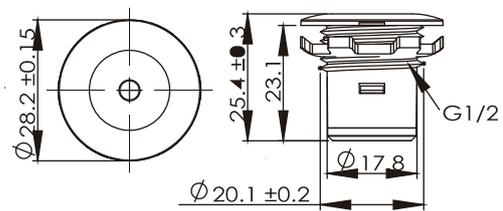
ANT-703P-B



ANT-703P-C



ANT-5-21B



ANT-5-22B

# Ordering Info

Item	Description
ANT-703P-A	PIR Sensor with Audio Jack in the middle
ANT-703P-B	PIR Sensor with Audio Jack off-center
ANT-703P-C	Audio Jack PIR Sensor with Adjustable Elbow
ANT-5-21B	Receptacle for ANT-703P-C
ANT-5-22B	Receptacle for ANT-703P-A and ANT-703P-B
M15 to M20(Optional)	Make the thread of ANT-703P-C from M15 to G1/2 to fit other audio jack base



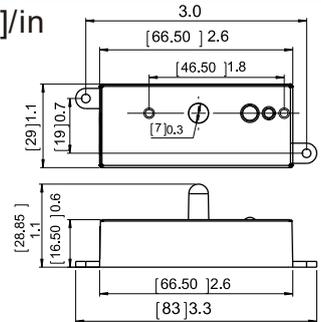
RoHS CE



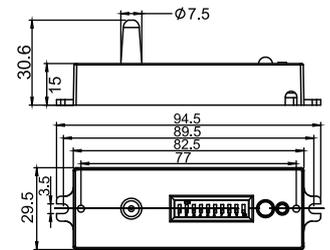
# Internal Microwave Sensor

## Dimensions

Unit:[mm]/in



ANT-8



ANT-8A



ANT-8



ANT-8A

## Ordering Info

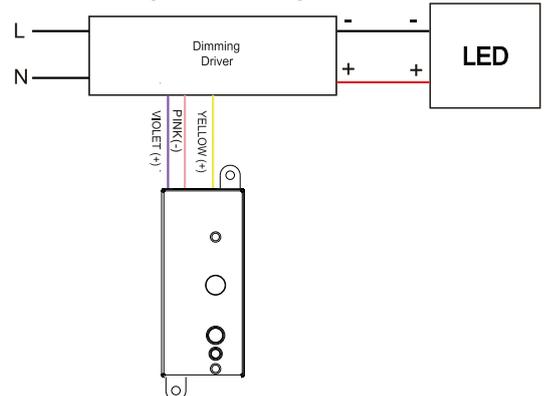
Item	Description
ANT-8	Internal Microwave Sensor without DIP Switch
ANT-8A	Internal Microwave Sensor with DIP Switch

## Technical parameters

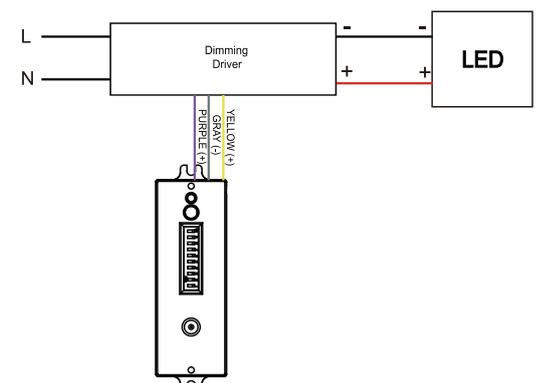
Power supply	12V-24V DC
HF System	5.8GHz+75MHz
Dim control output	0-10V, max. 25mA sinking current
Detection radius/angle	Max 26ft.(8m)/360°
Mounting height	Max 20ft
Remote range	50ft.(15m) indoor, no backlight
Humidity	Max. 95% RH
Temperature	-40°F~158°F(-40°C~70°C)
Parameter Setting	Via DIP Switch or RC100

## Wiring Diagrams

ANT-8 wiring with dimming ballast or LED driver.



ANT-8A wiring with dimming ballast or LED driver.

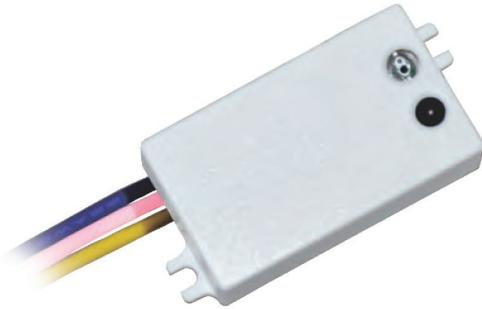




RoHS CE



# Small Microwave Sensor with Magnets



**ANT-9 & ANT-9-LW**

## Ordering Info

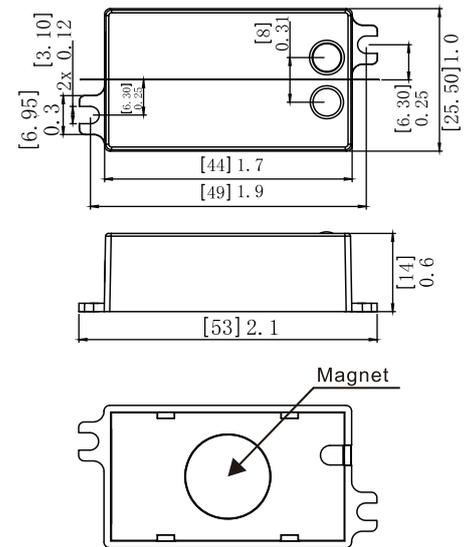
Item	Description
ANT-9	Small Microwave Sensor with Magnets for High Bay(40ft)
ANT-9-LW	Small Microwave Sensor with Magnets for Low Bay(15ft)

## Technical parameters

Power supply	12V-24V DC,>50mA
HF System	5.8GHz+75MHz
Dim control output	0-10V, max. 25mA sinking current
Detection radius/angle	Max 26ft.(8m)/360°
Mounting height	ANT-9:Max 40ft ANT-9-LW:Max 15ft
Remote range	50ft.(15m) indoor, no backlight
Humidity	Max. 95% RH
Temperature	-40°F~158°F(-40°C~70°C)

## Dimensions

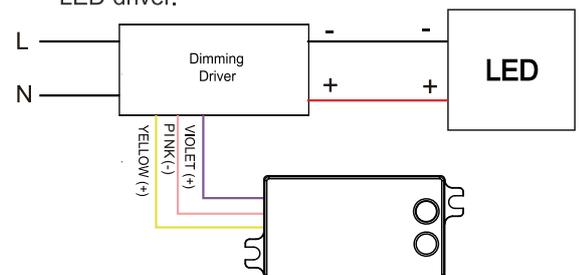
Unit:[mm]/in



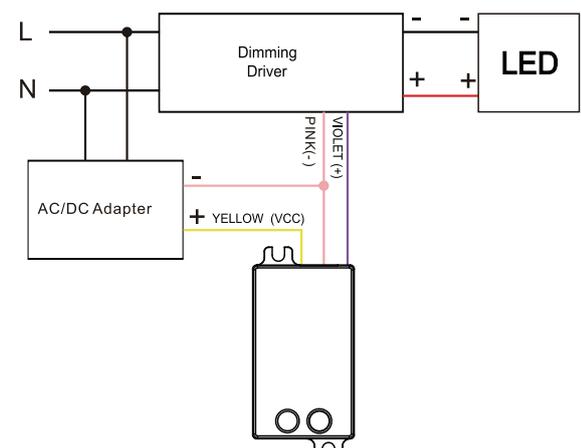
ANT-9 & ANT-9-LW

## Wiring Diagrams

ANT-9 & ANT-9-LW wiring with dimming ballast or LED driver.



ANT-9 & ANT-9-LW Wiring by AC/DC Adapter with dimming ballast or led driver.





RoHS CE



# Extremely Small Microwave Sensor



**ANT-9A**



**ANT-9C**

## Ordering Info

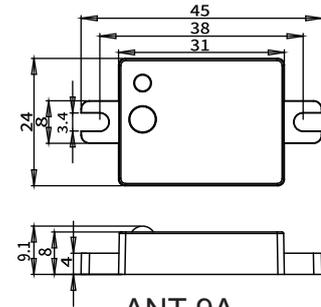
Item	Description
ANT-9A	Extremely Small Microwave Sensor set via RC106
ANT-9C	Extremely Small Microwave Sensor set via RC106 or RC100

## Technical parameters

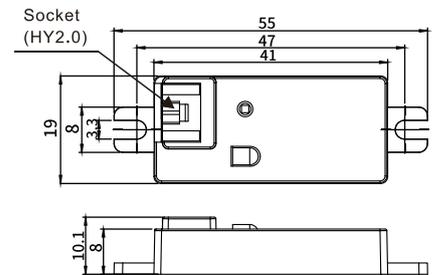
Power supply	ANT-9C:12V DC / ANT-9A:7.5-12V DC
HF System	5.8GHz+75MHz
Dim control output	ANT-9C:0-10V, max. 25mA sinking current ANT-9A:5V PWM(Gradual change)
Detection radius/angle	Max 16ft.(5m)/360°
Mounting height	Max 12ft
Remote range	50ft.(15m) indoor, no backlight
Humidity	Max. 95% RH
Temperature	-40°F~158°F(-40°C~70°C)
Parameter Setting	Via RC100 or RC106

## Dimensions

Unit:mm



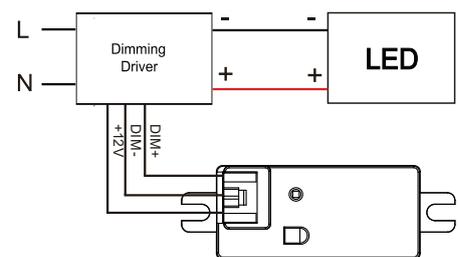
ANT-9A



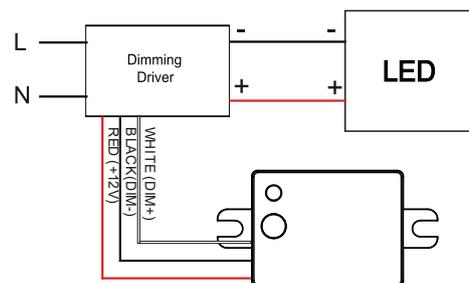
ANT-9C

## Wiring Diagrams

ANT-9C wiring with dimming ballast or LED driver.



ANT-9A wiring with dimming ballast or LED driver.





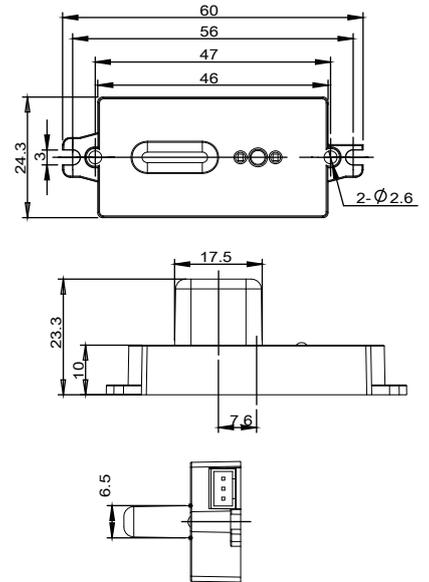
# Photoelectric Switch for Outdoor Lighting



**ANT-9E**

## Dimensions

Unit:mm



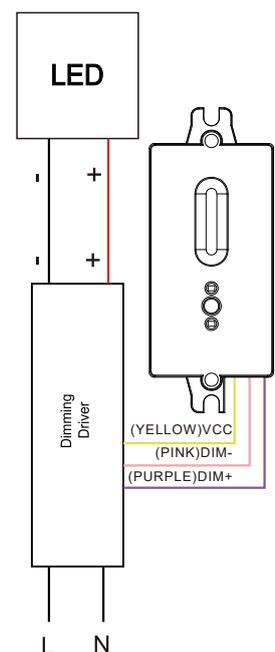
ANT-9E

## Technical parameters

Power supply	12-24V DC, >50mA
HF System	5.8GHz±75MHz
Dim control output	0-10V, max. 25mA sinking current
Detection radius/angle	Max 17ft.(5.2m)/360°
Mounting height	Max 16.4ft.(5m)
Remote range	50ft. (15m) indoor, no backlight
Humidity	Max. 95% RH
Temperature	-40°F ~ +158°F (-40°C ~ +70°C)

## Wiring Diagrams

Wiring with dimming ballast or LED driver.





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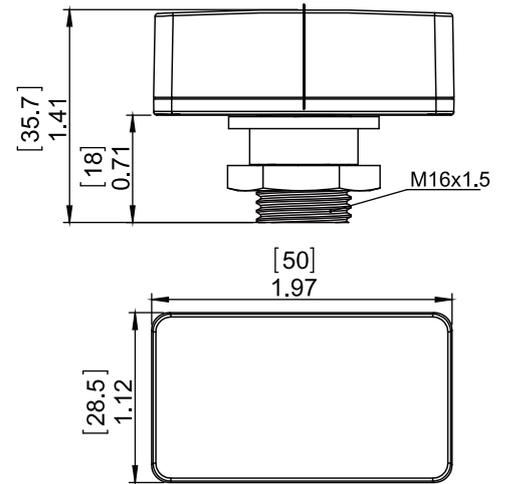
# IP65 High Bay Microwave Sensor



**ANT-11**

## Dimensions

Unit:[mm]/in



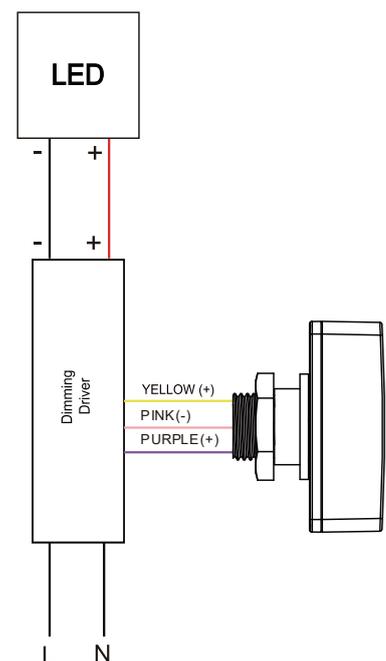
ANT-11

## Technical parameters

Power supply	12V-24V DC, >50mA
HF System	5.8GHz+75MHz
Dim control output	0-10V, max.25mA sinking current
Detection radius/angle	Max 26ft.(8m)/360°
Mounting height	Max 40ft
Remote range	50ft.(15m) indoor, no backlight
Humidity	Max. 95% RH
Temperature	-40°F~158°F(-40°C~70°C)
Parameter Setting	Via RC100

## Wiring Diagrams

ANT-11 wiring with dimming ballast or LED driver.





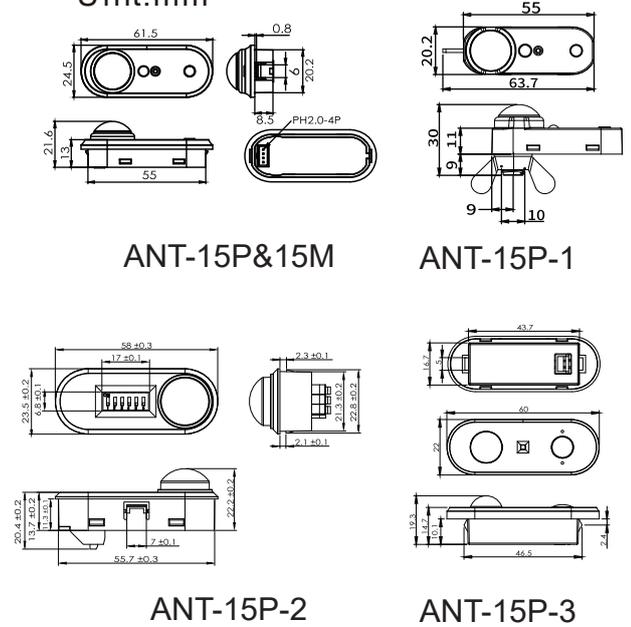
RoHS CE



# Bi-Level Dimming PIR Sensor

## Dimensions

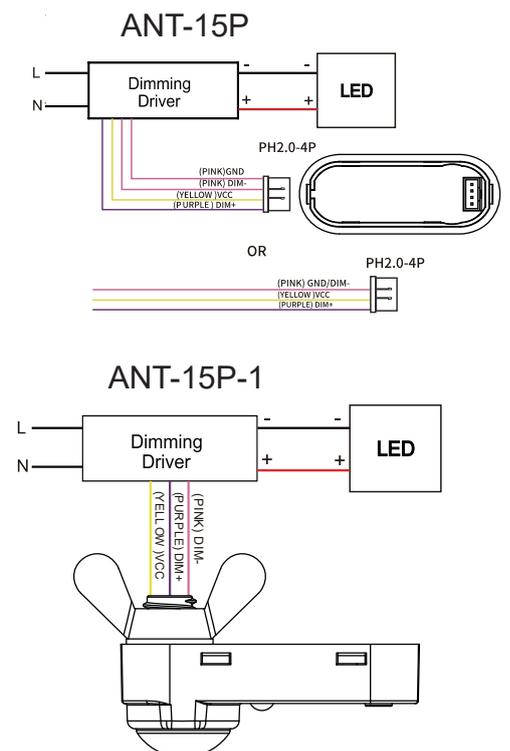
Unit:mm



## Technical parameters

Motion Sensor	Passive infrared sensor
Input Power	10-14VDC,>50mA
Control Output	0-10V,max 25mA sinking current
Mounting height	Max.12ft(4m)
Detection angle	360°
Operating temperature	-20°C~60°C
Warranty	5years
IP rating	IP20
Parameter Setting	Via RC100

## Wiring Diagrams





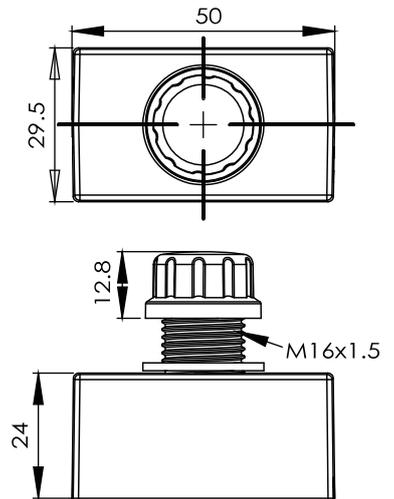
# Photoelectric Switch for Outdoor Lighting



**SK104**

## Dimensions

Unit:mm

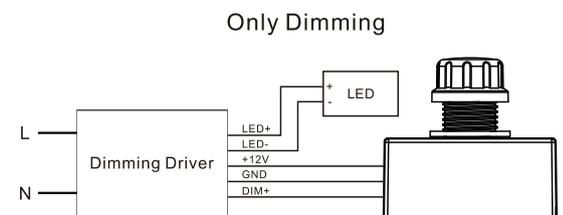
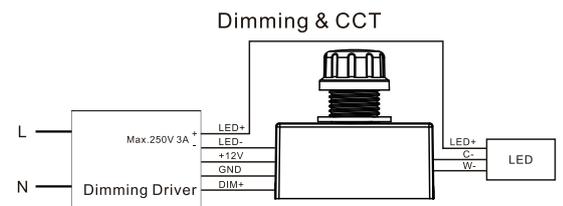


SK104

## Technical parameters

Input Power	LED Input : Max . 250VDC 3A; Sensor Input: 10-14VDC, >30mA
Sinking Current	Max. 25mA
Control Output	0-10V output signals
Power Consumption	Max.0.5W
Operate Level	10~20Lx On, 30~80Lx Off
Ambient Temperature	99%RH
Operating temperature	-40°F ~ +158°F (-40°C ~ +70°C)
Parameter Setting	Via RC100

## Wiring Diagrams



# Microwave Sensor with Magnets



**DP-03B**

## Technical parameters

Supply Voltage : 220-240V AC

Frequency : 50/60HZ

Temperature : -10~+65°C

Detection diameter : 8m

Detection angle : 100°

Spectrum IR:420KHZ

Time setting: 5s, 5Min, 15Min , 30Min

Light-control: 100LUX/200LUX/300LUX/  
400LUX/500LUX/OFF

Humidity : ≤93%RH

Rated load: 800W Max. tungsten  
200W Max.fluorescent

IP rating : IP20

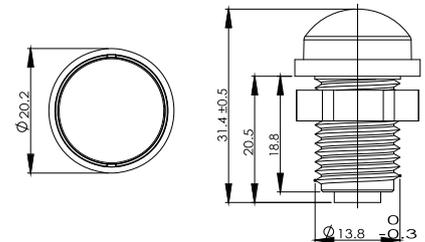
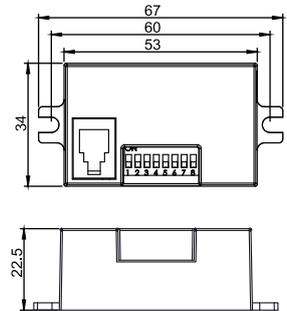
Standby power : Dynamic (0.45w) static (0.1w)

Load control mode: relay

warranty period : 5years

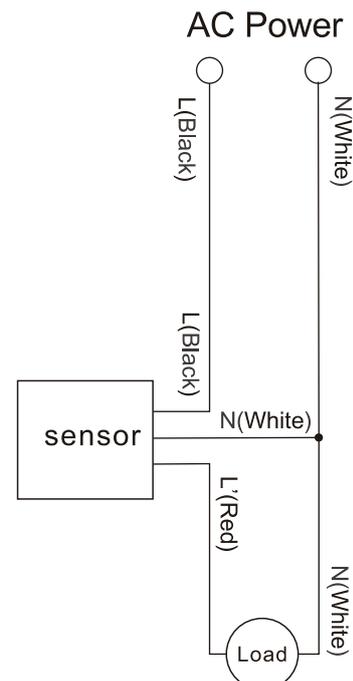
## Dimensions

Unit:mm



## Wiring Diagrams

Connect N, L with power;  
Connect N, L' with load.





# Accessories & Remote Controls

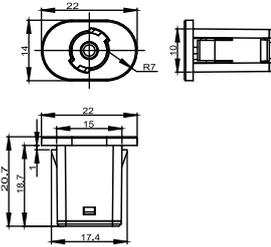
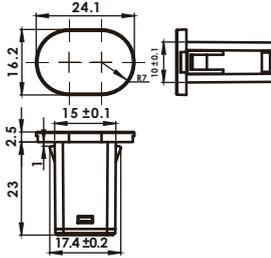
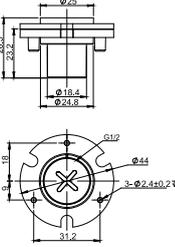
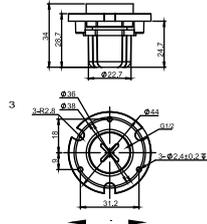
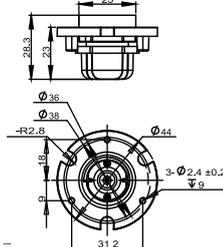
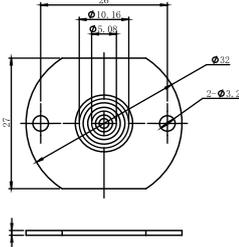
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# ACCESSORIES

## Sensor Socket

MODEL	SHAPE	DIMENSIONS	PRESENTATION
ANT-1P-4B			2.5mm Audio Jack Connection (2.5mm音频插座连接)  Fixed by buckle (卡扣固定)
ANT-1P-5B			3.5mm Audio Jack Connection (3.5mm音频插座连接)  Fixed by buckle (卡扣固定)
ANT-5-4B			3.5mm Audio Jack Connection (3.5mm音频插座连接)  Fix With Screws (螺钉固定)
ANT-5-4B-2			3.5mm Audio Jack Connection (3.5mm音频插座连接) Bottom IP65 Jacket Wires(底部防水,护套线) Fix With Screws (螺钉固定)
ANT-5-4S			3PIN Connection (3探针连接) Bottom IP65 Jacket Wires(底部防水,护套线) Fix With Screws (螺钉固定)
ANT-5-4S-2			3PIN Connection (3探针连接) Fix With Screws (螺钉固定)

# ACCESSORIES



## Sensor Socket

MODEL	SHAPE	DIMENSIONS	PRESENTATION
ANT-5-6B			3.5mm Audio Jack Connection (3.5mm音频插座连接) Bottom IP65 Jacket Wires(底部防水,护套线) Fix With Screws (螺钉固定)
ANT-5-6S2			3PIN Connection (3探针连接) Bottom IP65 Jacket Wires(底部防水,护套线) Fix With Screws (螺钉固定)
ANT-5-7B			3.5mm Audio Jack Connection (3.5mm音频插座连接) Single G1/2 Nut Fixed (G1/2螺母固定)
ANT-5-8B			3.5mm Audio Jack Connection (3.5mm音频插座连接) Fix With Screws (螺钉固定)
ANT-5-10B			3.5mm Audio Jack Connection (3.5mm音频插座连接) Single G1/2 Nut Fixed (G1/2螺母固定)
ANT-5-11B			3.5mm Audio Jack Connection (3.5mm音频插座连接) Single NPT1 Nut Fixed (NPT1螺母固定)

# ACCESSORIES

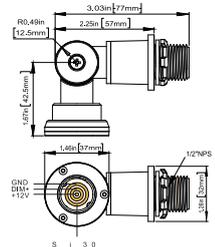
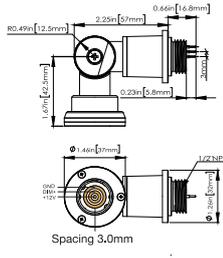
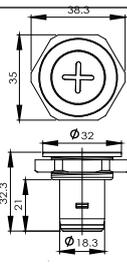
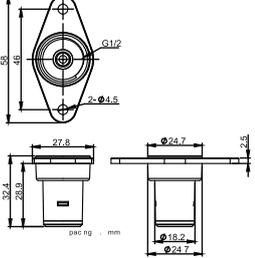
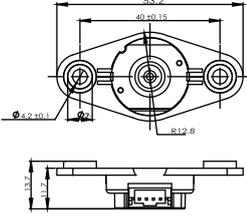
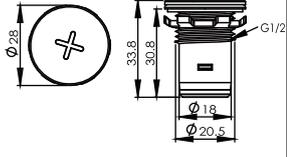


## Sensor Socket

MODEL	SHAPE	DIMENSIONS	PRESENTATION
ANT-5-14B			3.5mm Audio Jack Connection (3.5mm音频插座连接) Single G1/2 MetalNut Fixed ( G1/2 金属螺母固定 )
ANT-5-14B-1			3.5mm Audio Jack Connection (3.5mm音频插座连接) Single G1/2 Plastic Nut Fixed ( G1/2 塑料螺母固定 )
ANT-5-15B-Z			ZHAGA BOOK 18 IP65 Swivel Angle Socket (ZHAGA BOOK 18 可旋转防水插座) Single G1/2 Nut Fixed ( G1/2 螺母固定 )
ANT-5-15B-Z10			Z10 IP65 Swivel Angle Socket (Z10 可旋转防水插座) Single G1/2 Nut Fixed ( G1/2 螺母固定 )
ANT-5-16B-1			3.5mm Audio Jack Connection (3.5mm音频插座连接) IP65 Swivel Angle Socket (可旋转防水插座)
ANT-5-16B-2			3.5mm Audio Jack Connection (3.5mm音频插座连接) IP65 Swivel Angle Socket (可旋转防水插座) Single G1/2 Nut Fixed ( G1/2 螺母固定 )

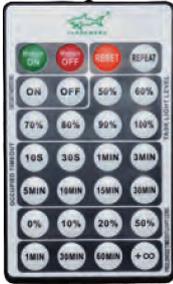
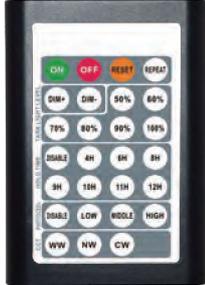
# ACCESSORIES

## Sensor Socket

MODEL	SHAPE	DIMENSIONS	PRESENTATION
ANT-5-16S3			3PIN Connection (3探针连接) IP65 Swivel Angle Socket (可旋转防水插座) Single G1/2 Nut Fixed (G1/2 螺母固定)
ANT-5-16S3-2			3PIN Connection (3探针连接) IP65 Swivel Angle Socket (可旋转防水插座) Single G1/2 Nut Fixed (G1/2 螺母固定)
ANT-5-17B			3.5mm Audio Jack Connection (3.5mm音频插座连接) Single M27 Plastic Nut Fixed (M27 塑料螺母固定)
ANT-5-18B			3.5mm Audio Jack Connection (3.5mm音频插座连接) Fix With Screws (螺钉固定)
ANT-5-5S-2			3PIN Connection (3探针连接) Fix With Screws (螺钉固定)
ANT-5-21B			3.5mm Audio Jack Connection (3.5mm音频插座连接) Single G1/2 Nut Fixed (G1/2 螺母固定)



# REMOTE CONTROLER

MODEL	SHAPE	MODEL	SHAPE
RC-100		RC-101	
RC-200		RC-105	
RC-7		RC-106	
RC102-C		RC-107	



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