

Project :

Type :

Drawn by :

Catalogue No. :

Date :



## Specifications

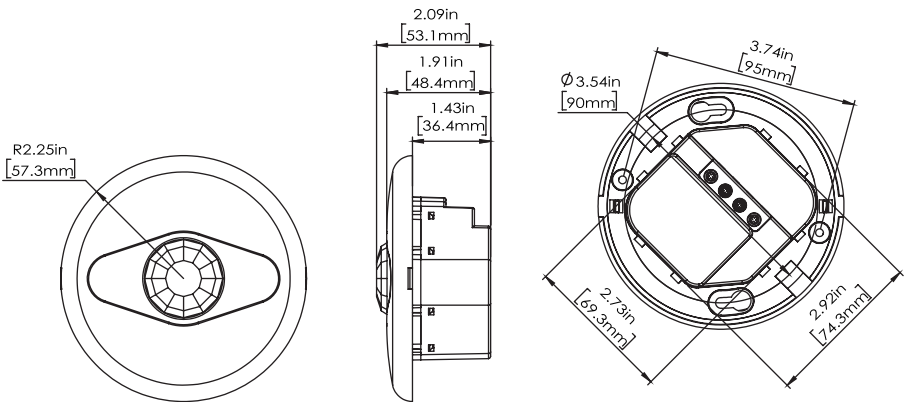
| Model No.              |                            | BRI-DT301P                                              |
|------------------------|----------------------------|---------------------------------------------------------|
| General                | Rated Voltage              | 120~347VAC, 50/60Hz                                     |
|                        | Power Supply               | Live Wire, Neutral Wire & Load Wire; Grounding Optional |
|                        | Installation Method        | Ceiling Mounting                                        |
|                        | Application                | Indoor lighting control/ Energy-saving lighting control |
|                        | Sensor                     | Passive infrared sensor (PIR)                           |
| Load Range             | Maximum Load @ 120VAC      | 0-800W Ballast / Tungsten / LED                         |
|                        | Maximum Load @ 230VAC (1Ø) | 0-1200W Ballast / LED                                   |
|                        | Maximum Load @ 277VAC      | 0-1200W Ballast / LED                                   |
|                        | Maximum Load @ 347VAC      | 0-1500W Ballast / LED                                   |
| Physical               | Material                   | Plastic+Aluminium                                       |
|                        | Housing Color              | White                                                   |
| Operating Environment  | Operating Temperature      | 32°F~+131°F ( 0°C ~+55°C)                               |
|                        | Humidity                   | Max. 95% RH                                             |
| Additional Information | Warranty                   | 5 Years                                                 |
| Compliance             | Safety Listing             | cULus Listed                                            |

## Features & Specifications

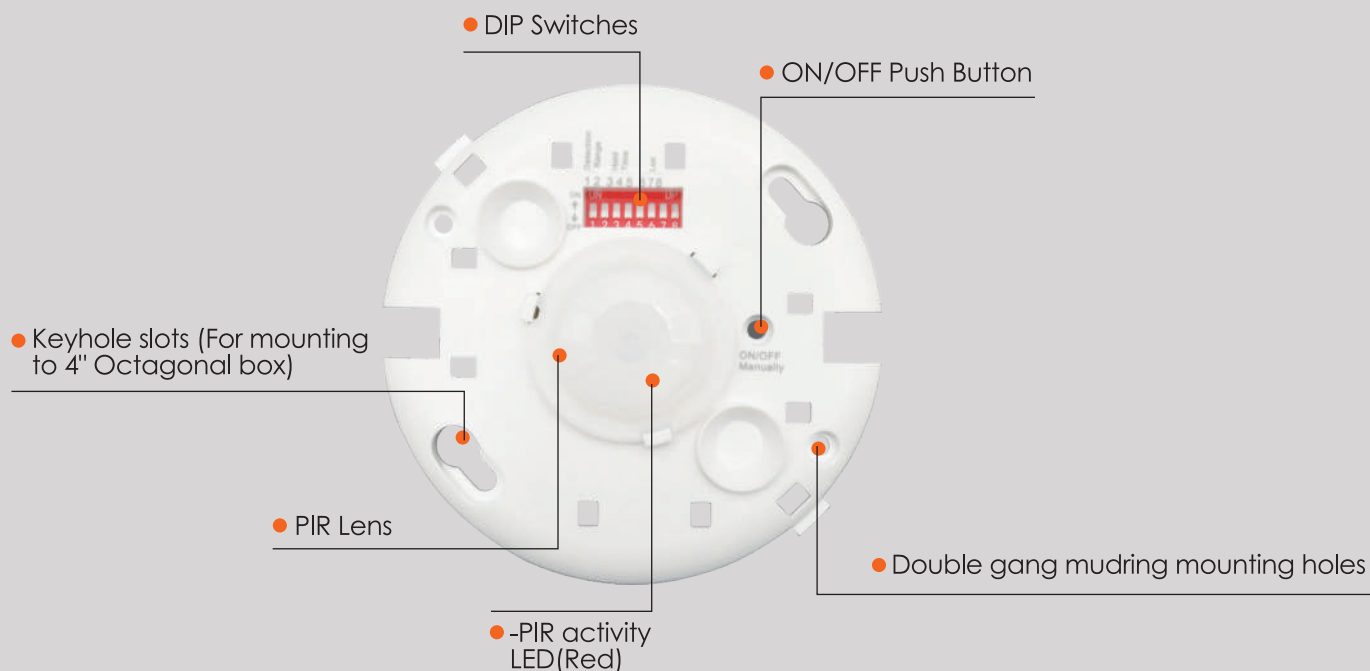
|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Construction | <ul style="list-style-type: none"> <li>• Compact round plastic housing with fresnel lens, including rear housing, sensor flange and front cover</li> <li>• Line voltage wiring connection, including load, Neutral and Hot wires.</li> <li>• Ground connection is optional</li> </ul>                                                                                                                                                                                                                                                                                                                         |
| Mounting     | <ul style="list-style-type: none"> <li>• Ceiling mounting, compatible with octagonal junction box</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Features     | <ul style="list-style-type: none"> <li>• Push button switch turn the lights ON/OFF</li> <li>• PIR sensor with Lux detection controls lamp ON &amp; Off</li> <li>• PIR detection radius Max 20ft (6m); Mounting height Max 12ft (4m)</li> <li>• Passive Infrared (PIR) occupancy detection</li> <li>• 360° coverage</li> <li>• Adjustable sensitivity: 20%/50%/75%/100%</li> <li>• Adjustable time delay: 10Sec/1/5/10/15/20/25/30 min</li> <li>• Adjustable daylight threshold: 10/20/50/100/200/300/500 Lux/Disable</li> <li>• Input voltage: 120-347VAC , 50-60Hz</li> <li>• DIP Switch settings</li> </ul> |
| Compliances  | <ul style="list-style-type: none"> <li>• cULus Listed</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## Dimensions & Weights

| Model             | BRI-DT301P        |
|-------------------|-------------------|
| Diameter in. (mm) | 2.25" (57.3mm)    |
| Height in. (mm)   | 2.09" (53.1mm)    |
| Weight Kgs (lbs)  | 0.21Kgs(0.47 lbs) |



### Product Details



### PIR Sensor

| Part Number | Technology                        | Height (Ft)                       | DetectionArea (M)                     | Time setting (Min)                             | Light control (Lux)                  | Humidity  | Temperature (°C)               |
|-------------|-----------------------------------|-----------------------------------|---------------------------------------|------------------------------------------------|--------------------------------------|-----------|--------------------------------|
| PIR Sensor  | Pyroelectric Infrared Sensor(PIR) | Max Mounting height Max 12ft (4m) | 360° radial coverage up to 20 ft (6m) | 10Sec/1min/5min/10min/15min/220min/25min/30min | 10/20/50/100/200/300/500 Lux/Disable | Max 95%RH | 0°C to+ 55°C (32°F to + 130°F) |

**NOTE:** Warmup time is 40seconds. After the sensor is connects input power first time, the light will keep on 40seconds, then go off to work normally.

#### Default setting:

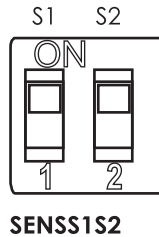
Sensitivity: 100%

Hold Time: 10 sec

Daylight Threshold: Disable

## Detection range setting (sensitivity)

Detection range refers to the radius of the circular detection zone produced on the ground when the sensor is mounted at a height of 2.5m. Set the detection range by adjusting switches S1 and S2. Move the switch to the ON position ("▲") or OFF position ("▼"). The corresponding switch settings and detection ranges are shown in the table below.

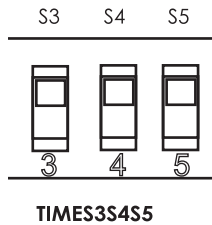


| Feature         | Switch# |   |
|-----------------|---------|---|
| Detection Range | 1       | 2 |
| 20%             | ▼       | ▼ |
| 50%             | ▼       | ▲ |
| 75%             | ▲       | ▼ |
| 100%            | ▲       | ▲ |

## Time setting

The light can be set to stay ON for any period of time between approximately 10 seconds and a maximum of 30 minutes. Any movement detected before the set time expires will restart the timer. It is recommended to select the shortest time setting when adjusting the detection zone and performing the walk test.

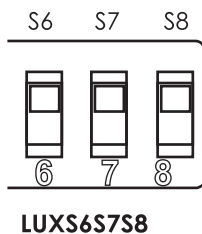
Move the switch to the ON position ("▲") or OFF position ("▼"). The corresponding switch settings and detection times are shown in the table below.



| Feature | Switch# |   |   |
|---------|---------|---|---|
| Time    | 3       | 4 | 5 |
| 10s     | ▼       | ▼ | ▼ |
| 1min    | ▼       | ▼ | ▲ |
| 5min    | ▼       | ▲ | ▼ |
| 10min   | ▼       | ▲ | ▲ |
| 15min   | ▲       | ▼ | ▼ |
| 20min   | ▲       | ▼ | ▲ |
| 25min   | ▲       | ▲ | ▼ |
| 30min   | ▲       | ▲ | ▲ |

## Light-control setting

The daylight threshold can be set to 10, 20, 50, 100, 200, 300, or 500 Lux, or disabled. Move the switch to the ON position ("▲") or OFF position ("▼"). The corresponding switch settings and light-control values are shown in the table below.



| Feature | Switch# |   |   |
|---------|---------|---|---|
| LUX     | 6       | 7 | 8 |
| Disable | ▼       | ▼ | ▼ |
| 10LUX   | ▼       | ▼ | ▲ |
| 20LUX   | ▼       | ▲ | ▼ |
| 50LUX   | ▼       | ▲ | ▲ |
| 100LUX  | ▲       | ▼ | ▼ |
| 200LUX  | ▲       | ▼ | ▲ |
| 300LUX  | ▲       | ▲ | ▼ |
| 500LUX  | ▲       | ▲ | ▲ |

◀ = Factory Setting

▲ = ON

▼ = OFF

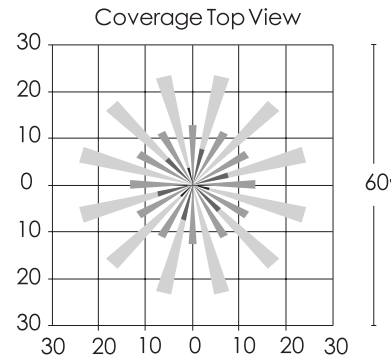
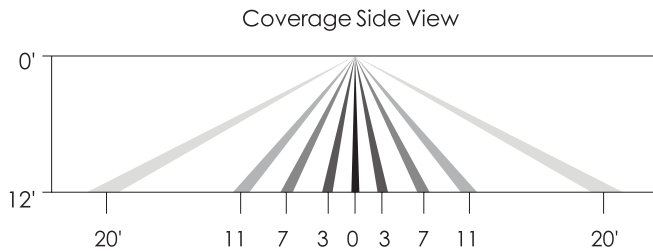


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## 360° PIR Occupancy Sensor

### Sensor Information



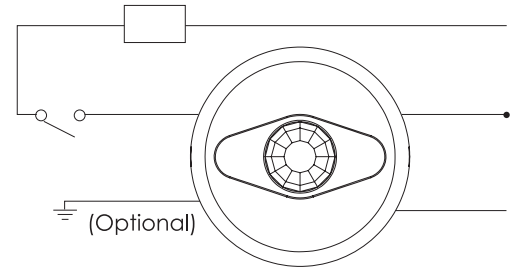
### Typical Wiring Application



#### WARNINGS AND CAUTIONS

DO NOT INSTALL THE SENSOR IN A SPACE CONTROLLING A TOTAL LOAD THAT IS HIGHER THAN THE RATING OF THE DEVICE. EACH SENSOR WILL NEED TO SWITCH THE ENTIRE LOAD EVEN IF ADDITIONAL SENSORS ARE INSTALLED. RISK OF OVERLOAD, PRODUCT DAMAGE, SMOKE AND OR FIRE MAY RESULT.

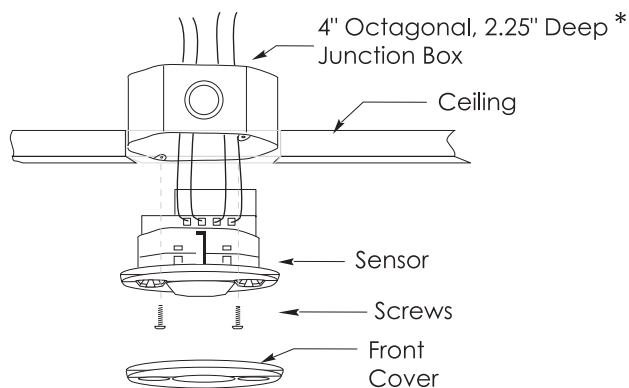
TURN THE POWER OFF AT THE CIRCUIT BREAKER BEFORE INSTALLING SENSORS.



### Ceiling Mounting

#### 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



Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice. Please contact your Votatec customer service representative to confirm inventory levels at time of order

