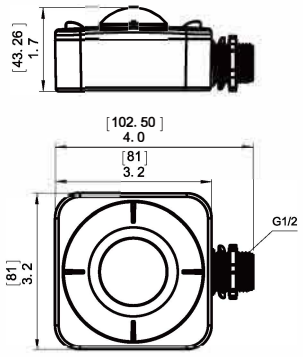
■ Infrared Fixture Integrated Sensor For High Bay Light
BRI819P-B-D Instruction



BRI819P-B-D



RC-100
(OPTIONAL)





L1 (Low bay)



L2 (High bay)

INTRODUCTION

The BRI819P-B-D mounts in an indoor lighting fixture and provides multi-level control based on motion . It controls 0-10 VDC LED drivers or dimming ballasts.
The BRI819P-B-D occupancy sensors are designed to mount to a light fixture and control one load in that fixture. They can be wired to control all ballasts in the fixture, or to control half of the ballasts, providing high/low lighting control. When motion is detected within the sensor's coverage area, the relay in the sensor closes, and lighting loads are automatically turned on.

SPECIFICATIONS

Power supply	120/277VAC 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
Len L1	Max.dectection radius 30ft; Max.mounting height 25ft
Len L2	Max.dectection radius 30ft; Max.mounting height 40ft
Time setting	10sec.-15min.(adjustable)
Light-control	10-50Lux (adjiustable)
Humidity	Max. 95% RH
Temperature	-40°F ~ +167°F (-40°C ~ +75°C)

⚠ WARNING

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

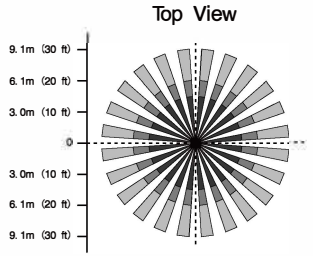
NOTE: Factory Default Setting: 100% sensitivity, Hold on time: 10seconds, Daylight sensor is 30lux, Dimming level:30%,Dimming time: 60minitues.

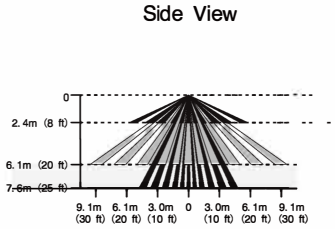
NOTE: Any setting changed by DIP Switch or remote control, the led light that sensor connect will on/off as confirm.

SENSOR INFORMATION

L1 Len

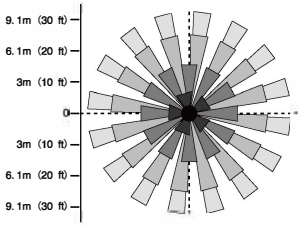
Low Bay 360°

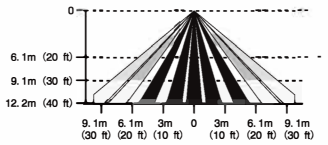




L2 Len

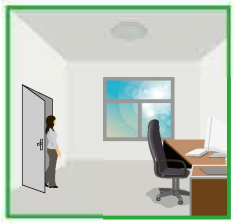
High Bay 360°





FUNCTION AND OPTIONS

The infrared to achieve tri-level dimming control, for same areas that require a light change notice before switch off.
If offers 3 levels of the light Control : 100%--dimming light (0,10%,30%,50%)--off;and 2 periods of selectable waiting time: motion hold-time and stand-by time. Selectable daylight threshold and choice of detection area.



With suffcient natural light, the light does not switch on when presence detected.



With insufficient natural light, the sensor switches on the light automatically when person enters room.



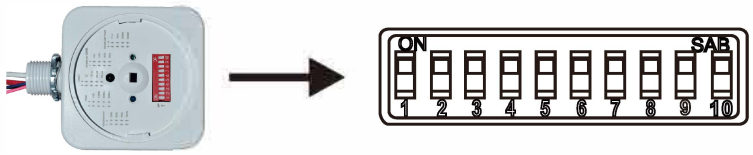
People left, light still dims to 0/10%/30%/50% (options) standby level after the hold time.



Light switches off automatically after after stand-by time elapsed.

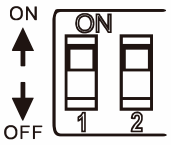
PARAMETER SETTING BY DIP SWITCH

Consider the picture: 1, 2 set sensitivity; 3, 4 set hold time; 5, 6 set the lux; 7, 8 stand-by light level ; 9, 10 set stand-by time ;



Detection Range Setting (sensitivity)

Detection rang can be reduced by selecting the combination on the DIP switches to fit precisely each application:



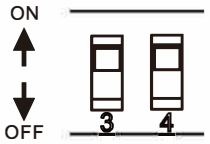
SENSITIVITY:1, 2

SENSITIVITY

1	2	
↓	↓	20%
↓	↑	50%
↑	↓	75%
↑	↑	100%

Hold Time Setting

The lamp can be set to stay ON for any period of time between approx. 10sec and a maximum of 15min. Any movement detected before this time elapse will re-start the timer. It is recommended to select the shortest time for adjusting the detection zone and for performing the walk test.
Switch location and hold time of the corresponding table is as follows:



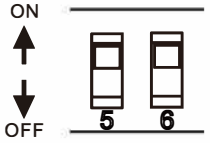
TIME:3, 4

TIME

3	4	
↓	↓	10S
↓	↑	1Min
↑	↓	5Min
↑	↑	15Min

Light-control Setting

The chosen lamp response threshold can be infinitely from approx. 10-50lux, switch location and light-control of the corresponding table is as follows:



LUX:5, 6

LIGHT

5	6	
↓	↓	☼ (light sensor disable)
↓	↑	10Lux
↑	↓	30Lux
↑	↑	50Lux

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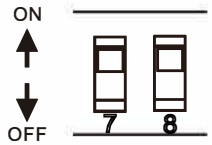
Stand-by Light Level Setting

The corresponding file of switch location and stand-by level as follow:



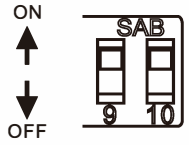
STAND-BY LEVEL:7, 8

STAND-BY LEVEL

7	8	
↓	↓	0%
↓	↑	10%
↑	↓	30%
↑	↑	50%

Stand-by Time Setting

The corresponding file of switch location and stand-by time setting as follow:



STAND-BY TIME:9, 10

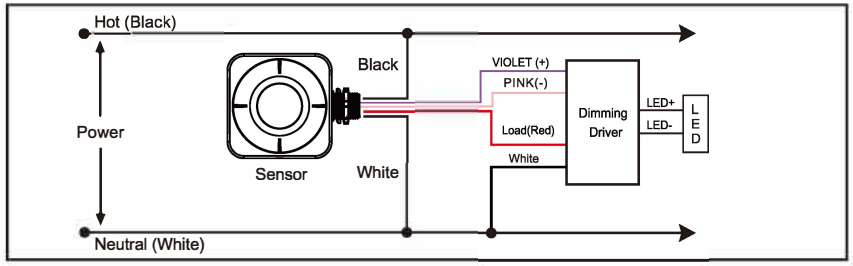
STAND-BY TIME

9	10	
↓	↓	+∞
↓	↑	1Min
↑	↓	30Min
↑	↑	60Min

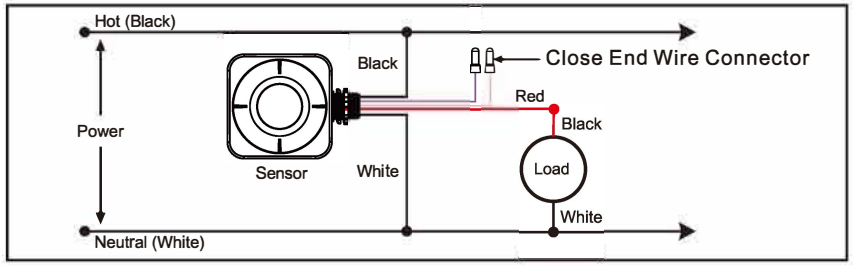
PARAMETER SETTING BY REMOTE CONTROL IN MANUAL OF RC-100.

WIRING DIAGRAMS

Dimming Driver



Non-Dimming Driver



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V1.3