LEDTEK®
Energy Saving LED

MG-HBPIR - PIR Sensor
for use with MG-HB200CCT LED High Bay
ⓘ Installation Sheet

MG-HBPIR

MG-HBREM
(optional)

G1/2

55.4
48.5
33.7
26.2

Ø55
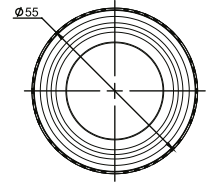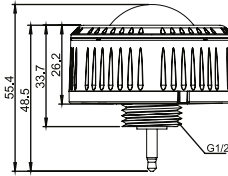
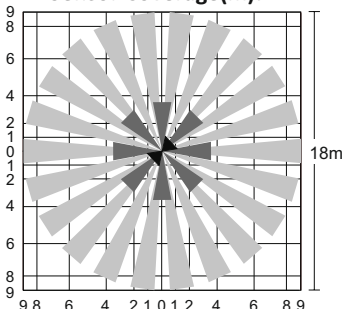## Introduction:

The MG-HBPIR is designed to be used in conjunction with the MG-HB200CCT High Bay in both indoor and outdoor environments. The PIR Sensor can provide a multi level control based on movement and lux level present on the premises. It has the capability to control 0-10V DC LED drivers and dimming ballasts. The IP65 rating allows the PIR to be installed in wet environments. All control parameters are adjustable via the remote control.
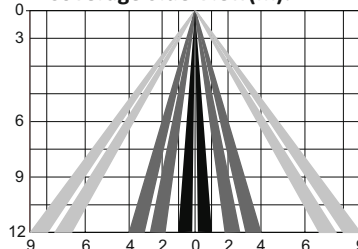
Specifications:

Power Supply	12V-24V DC, >30mA
Dimming Control Output	0-10V max. 25mA sinking current
Remote Range	up to 15m indoor
Detection Radius	20%-80%, 1-8 meters
Mounting Height	Max 12 meters
Time Setting	10s/1min/5min/10min/15min/20min/30min/60min
Lux Setting	10Lux/30Lux/50Lux, 24 Hours
Temperature	-20°C ~ +60°C
IP Rating	IP65

⚠ **Attention:**
1. When first connected, the PIR sensor has a warm-up time of 40 seconds.
2. The PIR setting can be changed only by using the optional MG-HBREM remote control. When any setting is changed trough the remote control, the light will flash once.
3. The **Factory Default Settings** of the PIR are:
   - 100% sensitivity
   - 5 minutes time setting
   - Max daylight sensor
   - Dimming level 30%
   - Dimming time 60 minutes

### Sensor Coverage(m):

18m

### Coverage Side View(m):

Corridor Function:

By having a tri-level control, the MG-HBPIR can be mounted in different environments. The PIR sensor can be set to trigger when there is insufficient natural light. After the trigger, the PIR can be programmed to dimm the light up to 2 times, eventually the light will turn off if the PIR will not be triggered again.

1.Off
With enough natural light the PIR will not trigger when presence is detected.
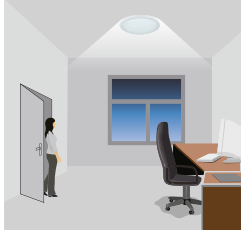
2.Hold Time
After the lux threshold is reached the PIR will automatically trigger when presence is detected.
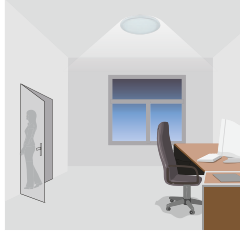
3.Stand-by
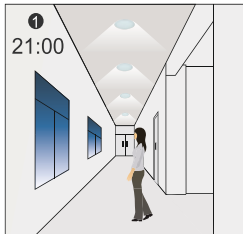Once movement is no longer detected the light will dimm to the pre-set lux level.

4.Off
The light will switch off after the stand-by period.

Daylight Sensor Function:

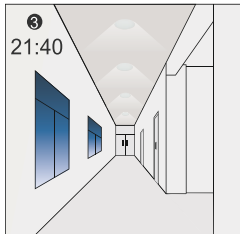Open the daylight sensor by pushing 🔲 when the remote control is in setting condition.
See the settings for the demonstration below as follows: Hold-time: 30min, Set point on: 50lux, Set point off: 300lux, Stand-by Dim: 10%, Stand-by period +∞
(When the photocell sensor is open, the stand-by time is +∞)

❶ 21:00

❷ 21:10

❸ 21:40

❶ ⇄ ❸ goes in cycle at night ⋯

100% on when movement detected, and dims to 10% in long absence.

Light turns ON when movement is detected.

Light dimms to stand-by level after the hold time.

Light keeps its dimming level at night.

❹ 08:10
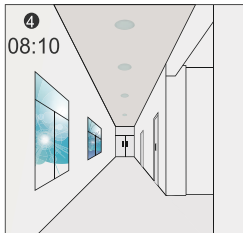
❺ 17:40

When natural light exceeds the preset level the light will stay off even if movement is detected.
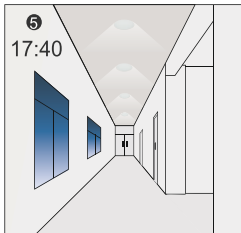
Light turns on at 10% automatically when natural light is under the preset level.

Power On

Off — ☀️ Check

🌙 Every 30min ⏱️

Dimm — No movement

Movement

100% On 🌙

Hold-time ends ⏱️

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