



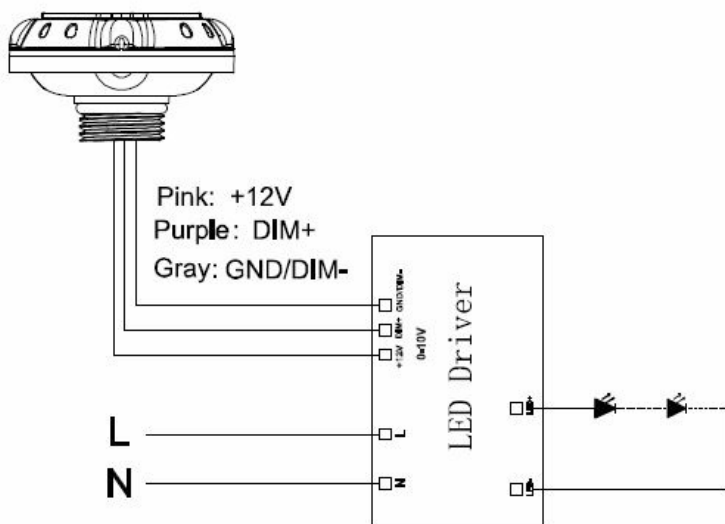
## HBE HB01DMS-A Microwave Sensor Instruction Manual

# HBE

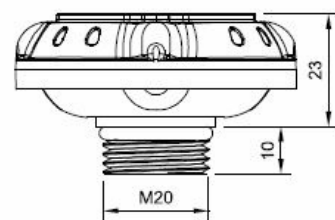
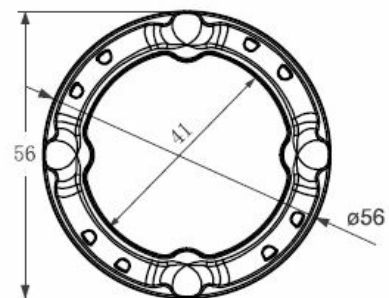
HBE HB01DMS-A Microwave Sensor



Diagram



Wiring diagram



Unit:mm

## RoHS Compliant



On/off control



Stand-by  
dimming level



Detection area



Remote control  
setting



Hold time



10-15M Highbay  
altitude



Daylight sensor



warranty  
5  
years



Stand-by period

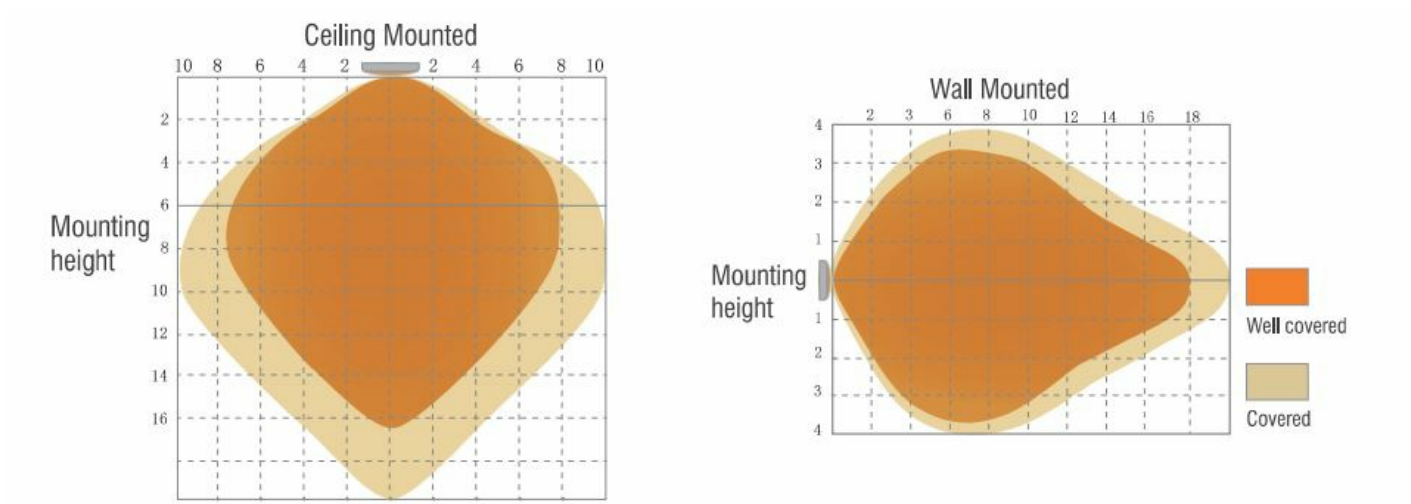
## Technical Data

Operating voltage	12±2V DC
Operating current	30mA
Output	DIM 0-10V
Stand-by power	<0.5W
Brightness	0%-100%/Quick setting:70%/80%/90%/100%
Sensitivity	20%/50%/75%/100%
Hold time	10s/1min/10min/30min
Daylight threshold	10Lux/30Lux/50Lux/100Lux/Disable
Stand-by time	1min/30min/60min/+∞
Stand-by dimming level	10%/20%/30%/50%
Microwave frequency	5.8GHz±75MHz
Microwave power	<0.5mW
Detection angle	150° (wall mounted) 360° (ceiling mounted)
Control line	Pink:+12V; Purple:DIM+; Gray:GND/DIM-
Mounting height	Max.15m(ceiling mounted)
Detection range	Max.ø15m(ceiling mounted) Max.20m(wall mounted)
Operating temperature	-30°C~+60°C
IP rating	IP65

#### Note:

Default setting: Brightness: 100%, Hold time: 1 min, Stand-by dimming level: 20%, Stand-by time: 1 min, Sensitivity: 100%, Daylight: Disable.

#### Detection coverage

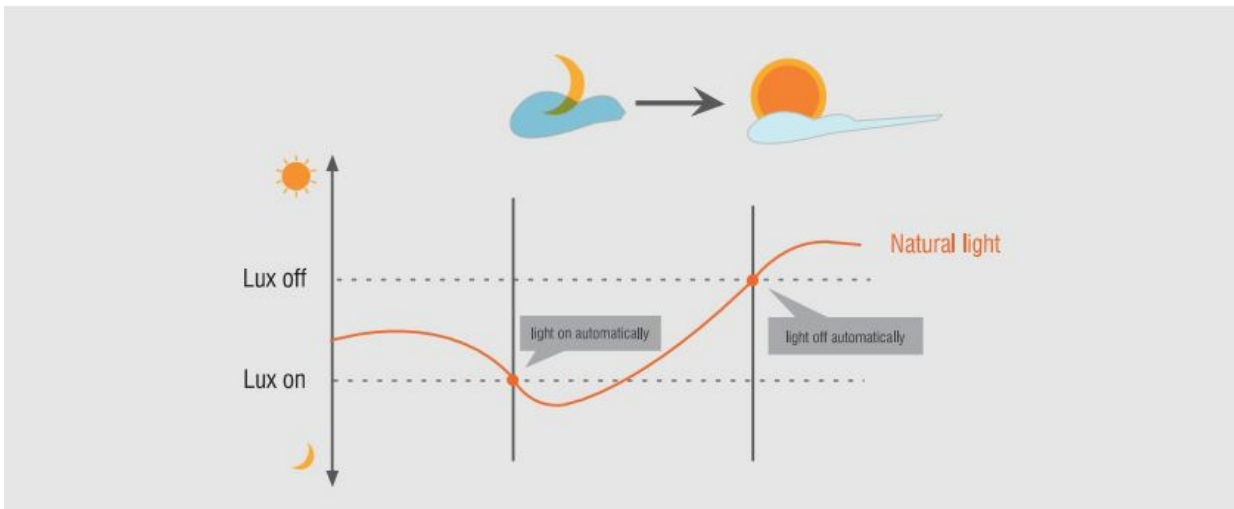


#### Lux on/off

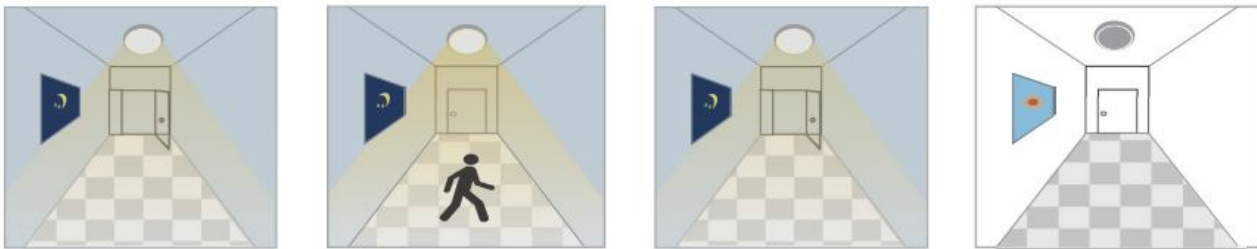
Adopted dual PD technology, HB01 DMS-A is able to differentiate artificial light brightness from natural light after installed inside the fixture, and automatically turn off light when ambient brightness exceeds preset lux level.

##### Preconditions to use the Lux-off function:

1. Stand-by period is + ∞;
2. Stand-by dimming level is on 10%, 20%, 30% or 50%;
3. Daylight threshold is on 10Lux, 30Lux, 50Lux or 100Lux .



## Application–Lux on/off



1. Light automatically on when ambient brightness is lower than preset lux level.
2. With insufficient ambient brightness, light dims to 100% when motion detected.
3. Light dims to stand-by level if no motion detected after hold time.
4. Light off when ambient lux level is higher than preset lux amount.

## FCC Statement

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correct the interference by one or more of the following measures:
  - Reorient the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment into and outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

The distance between user and products should be no less than 20cm.

## IC STATEMENT

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.