Halco
LIGHTING TECHNOLOGIES ®

Motion Sensor

DCMS Bi Level Motion Sensor

RoHS COMPLIANT

HB01DMS-A   HB01DMS-B
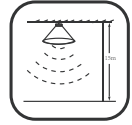
On/off control

Daylight sensor

Remote control setting

Detection area
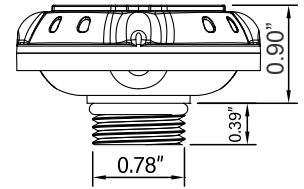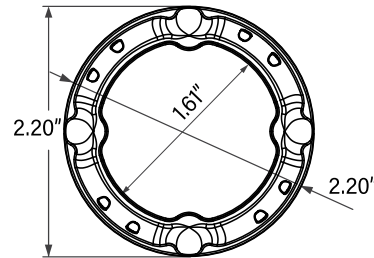
Stand-by period

10-15M Highbay altitude

Hold time

Stand-by dimming level

warranty 5 years

Specifications

SKU	24875
Product code	DCMS DC Bi-Level Microwave Motion Sensor
Description	DCMSPIR
Operating voltage	12±2V DC
Operating current	30mA
Output	DIM 0-10V
Stand-by power	<0.5W
Brightness	Uniformly illuminated 6" height, 3/4" Stroke
Sensitivity	0%-100%/Quick setting:70%/80%/90%/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	90 30-150°+
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℃~+60℃
IP rating	IP65
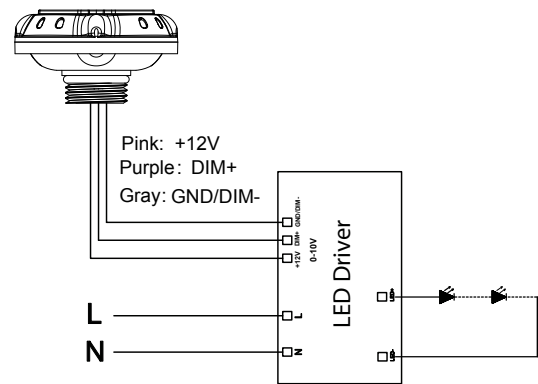
Compatible with all Halco high bay lighting, and outdoor lighting

Dimensions

2.20"
1.61"
2.20"

0.90"
0.39"
0.78"

Unit:in

Pink: +12V
Purple: DIM+
Gray: GND/DIM-

LED Driver

L

N

Wiring diagram

DCMS Bi Level Motion Sensor

Detection Coverage

Ceiling Mounted

Mounting height


Wall Mounted

Mounting height

Well covered

Covered
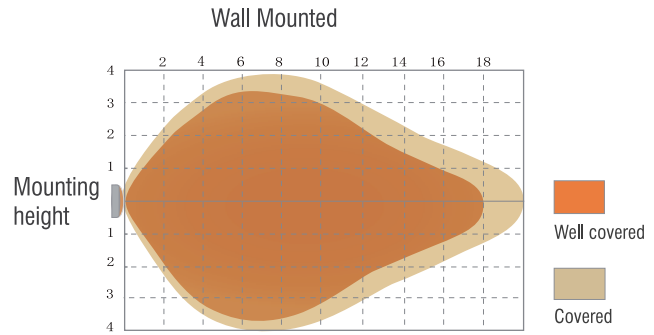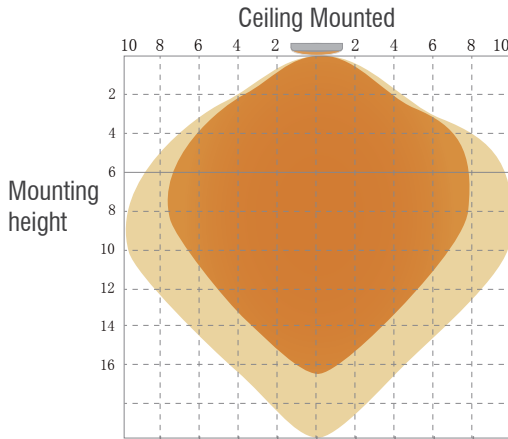
Lux on/off

Adopted dual PD technology, HB01DMS-A/B 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 $+\infty$;
2. Stand-by dimming level is on 10%, 20%, 30% or 50%;
3. Daylight threshold is on 10Lux, 30Lux, 50Lux or 100Lux.

Natural light

Lux off

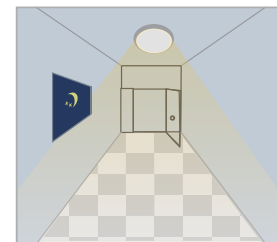light on automatically

light off automatically
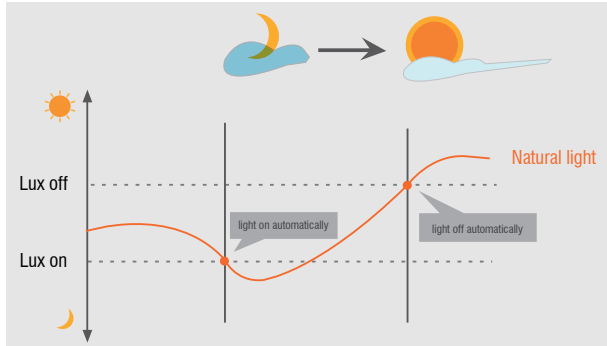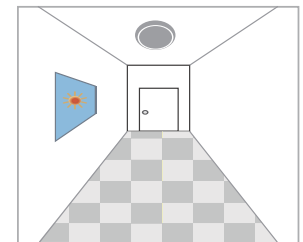
Lux on

Application – Lux on/off
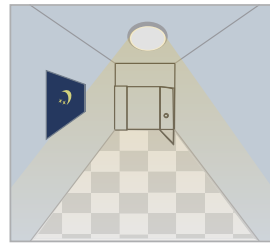
Light automatically on when ambient brightness is lower than preset lux level.

With insufficient ambient brightness, light dims to 100% when motion detected.

Light dims to stand-by level if no motion detected after hold time.

Light off when ambient lux level is higher than preset lux amount.

Product Family Compatability

SekTor Area Light

HID High Lumen LED Retrofit

Hoverbay Round Highbay

Round Highbay

Essential Round Highbay

HID Highbay Retrofit lamp