orbit ®
Orbit Industries, Inc.
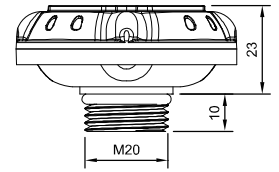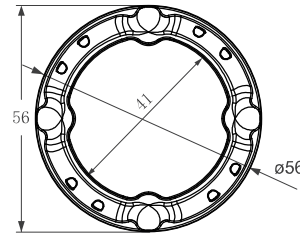
DMS1   **DMS1-RC**   Unit:mm

DMS1

Notes:
1. DMS1 can differentiate artificial light brightness from natural light after installation.
2. Default setting: Brightness: 100%, Hold time: 1min, Stand-by dimming level: 20%, Stand-by time: 1min, Sensitivity: 100%, Daylight: Disable.
3. If your fixture has a wattage adjustment function and you're installing a motion sensor (DMS1), follow these steps:
   a. Determine the largest integrated wattage of your fixture (e.g. if fixture's adjustment range is 100W/120W/150W, largest wattage is 150W).
   b. Set the sensor's brightness level to a desirable percentage based on the fixture's largest integrated wattage. For example, if the largest wattage is 150W and you set the sensor's brightness level to 70%, the sensor's brightness setting will be equal to 70% x 150W = 105W.
   c. The fixture's final brightness will be based on the lower wattage between the fixture's adjusted wattage and the sensor's brightness level setting. So, if you set the fixture to 120W and the sensor to 70% (105W), the fixture's final wattage will be 105W. If you set the fixture to 100W, and the sensor to 70% (105W), the fixture's final wattage will be 100W.

On/off control

Stand-by dimming level

Detection area

Remote control setting

Hold time

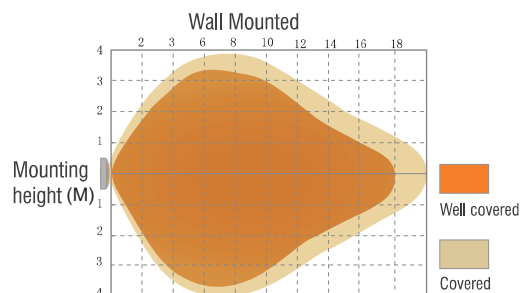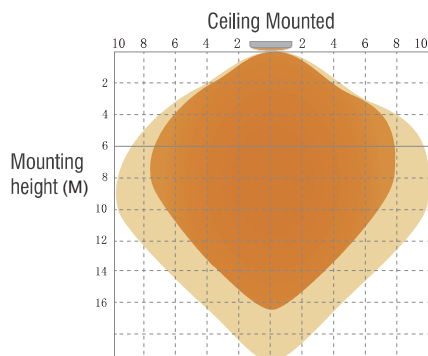10-15M Highbay altitude

Daylight sensor

Stand-by period

01 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	Black White: 12V+, Purple: DIM+, Pink: DIM-/GND
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

02 Detection coverage

Ceiling Mounted

Mounting height (M)

Wall Mounted

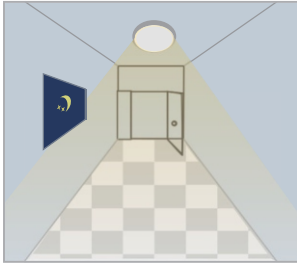Mounting height (M)

Well covered

Covered

03   Application——Lux on/off

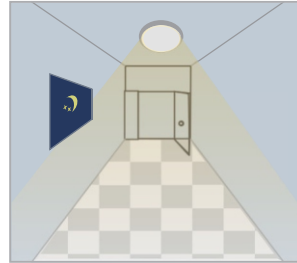**Preconditions to use the Lux-off function:**
1. Stand-by period is +∞;   2. Stand-by dimming level is on 10%, 20%, 30% or 50%;
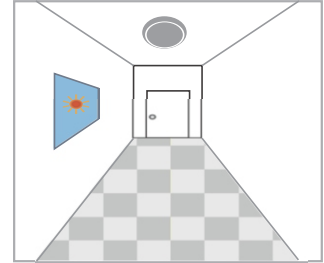3. Daylight threshold is on 10Lux, 30Lux, 50Lux or 100Lux.

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.

DMS1-RC

Display Area

BRIGHTNESS (70%/80%/90%/100%)   HOLD TIME (10S/1min/10min/30min)
DAYLIGHT (10lx/30lx/50lx/100lx)   SENSITIVITY (20%/50%/75%/100%)
STANDBY DIM (10%/20%/30%/50%)   STANDBY TIME (+ ∞ /1min/30min/60min)

Button Setting Area

ON/OFF (Long press the "ON/OFF" button until the brightness indicator light is on(First-row).Press to turn on or turn off the fixture.)

BRIGHTNESS (Press to adjust dimming level 70%/80%/90%/100%.)

SEND (Press to save settings after each change.The indicator light confirms the save setting.)

HOLD TIME (Press to adjust hold time 10s/1min/10min/30min.)

DAYLIGHT (Long press the button until the daylight indicator light is on,press to adjust daylight threshold 10lx/30lx/50lx/100lx.)

SENSITIVITY (Press to adjust sensitivity 20%/50%/75%/100%.) Note: PIR Motion Sensor have no sensitivity setting,the default 100%.

STANDBY DIM (Press to adjust stand-by dimming level 10%/20%/30%/50%.)

STANDBY TIME (Press to adjust stand-by time +∞ /1min/30min/60min.)
Note: "+∞ "means unlimited stand-by time,and the light control mode is the light control priority mode, otherwise it's the light threshold mode.

RESET
Press "RESET"button,products with DIP switch will be controlled by DIP switches;Otherwise all the setting will change,which is Brightness 70%/ Hold time 10s/ Sensitivity 20%/ Daylight threshold disable/Stand-by dimming level 10% / Stand-by time+∞.

TEST
The button "TEST"is for testing purpose after debugging.Pressing this button,the sensor goes to test mode(hold time is only 3s).

+ Press to increase brightness(0-100%).

− Press to reduce brightness(100%-0%).

Attention

1. If you want to send a setting,it will only work if the remote control is on.If you don't press any button within 10 seconds,the indicator light will go out.

2. When using "ON/OFF"button,the rest buttons except the "ON/OFF","BRIGHTNESS"and"SEND"buttons will be disabled.

3. When using "TEST"button,the rest buttons except the "TEST","SENSITIVITY"and "SEND"buttons will be disabled.

4. Every change needs to press "SEND" button,it will be saved.

5. Beacuse of the power supply DIMMING ratio difference, when using different power, "BRIGHTNESS" and "STANDBY DIM" adjust percentage of the power will have difference with the measured power.

6. Light control priority mode: the on/off illumination values of each gear are 10lx/50lx, 30lx/100lx, 50lx/150lx and 100lx/200lx.

7. Light threshold mode:the on/off illumination values of each gear is 10lx/30lx/50lx/100lx , when the light intensity is less than set value and the movement of someone or an object is induced, the light is turned on to the preset brightness.