



RHB1S-LED

LED Round Highbay



Colour
Selectable

Lumen
Adjustable

Voltage
Range
120-277V

Voltage
Range
120-347V

IDEAL APPLICATIONS

- ✓ Warehouses
- ✓ Factories
- ✓ Gyms
- ✓ Industrial Applications

DESCRIPTION:

The Round Highbay provides optimal widespread illumination ideal for warehouses, factories, gyms and other highbay applications. This fixture is color selectable and lumen adjustable.

FEATURES:

- Colour Selectable fixture allows Installer to choose between 4000K/5000K at the time of installation.
- The Lumen adjustable fixture allows installer to select between 3 wattage settings:
RHB1S-LED100A60 - 100W/80W/60W
RHB1S-LED150A100 - 150W/120W/100W
- Ruggedly designed with die cast aluminum body and polycarbonate lens.
- Easy to install with mounting hook and 2 meter cord for line voltage and 0.5 meter cord for 0 -10V Dimming.
- Fixture can be suspended or yoke mounted. (Yoke sold as a separate accessory)
- Accessories include Aluminum Reflector, Yoke, PC reflectors, PC Reflector Cover, Wire Guard, M10 or M12 to 1/2" or 3/4" Adaptor with Junction Box, Motion Sensor, Emergency Battery Back Up and Remote Control.
- Optional motion sensor that can be easily connected without the need for extra wiring.

| SPECIFICATIONS | RHB1S-LED100A60 | RHB1S-LED150A100 |
|--------------------------|--|------------------|
| Watts (W) | 99.9 | 150.4 |
| Lumens (Maximum) | 14300.6 | 21827 |
| Efficacy (Lm/W) | 143.2 | 145.1 |
| Colour Temp | VK - Colour Selectable (4K*,5K) | |
| Voltage | 120-277V, 120-347V | |
| CRI | 85 | |
| THD | 15% | |
| PF | 0.9 | |
| Dimming | 0-10V Dimming (Range: 10%-100%) | |
| LED Life @ 100,000 Hours | 81% | |
| Beam Distribution | 90 Degrees | |
| Finish | Matte Black* | |
| Housing Details | Die Cast Aluminum | |
| Lens Details | Clear PC Lens | |
| Mounting | Pendant, Suspended*, Yoke | |
| Operating Temp. | "Without Motion Sensor: -40°C to 50°C With Motion Sensor: -30°C to 50°C" | |
| Certifications | UL, Wet Location, IP65, 3G | |
| Options Sold Separately | "Yoke, Junction box with adapter, Wire guard, Polycarbonate/Aluminum Reflectors and Cover, DC Microwave Motion Sensor and Remote, Emergency Battery Back Up" | |

*Standard Configuration

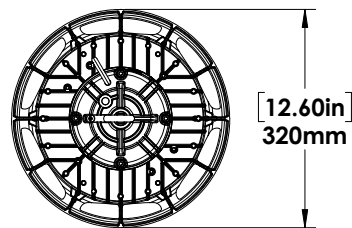
Note: For lumen outputs at other wattage settings, please view Lumen Adjustable Settings table on page 6.



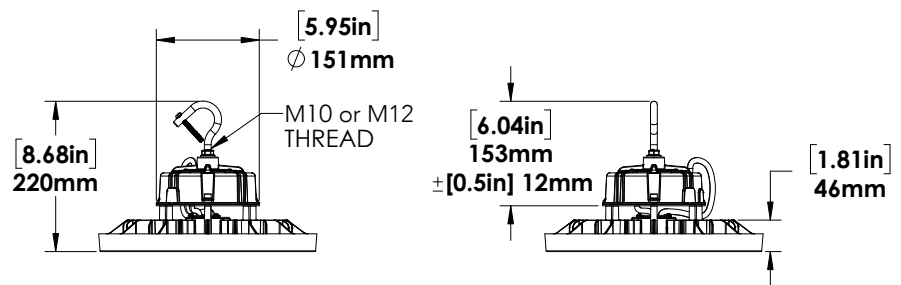
DIMENSIONS:

FIXTURE DIMENSIONS

TOP VIEW

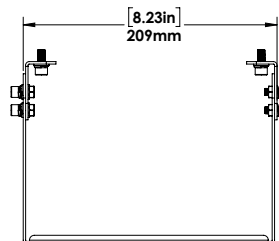


SIDE VIEW

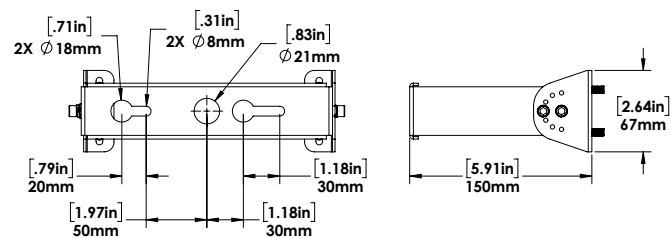


YOKE

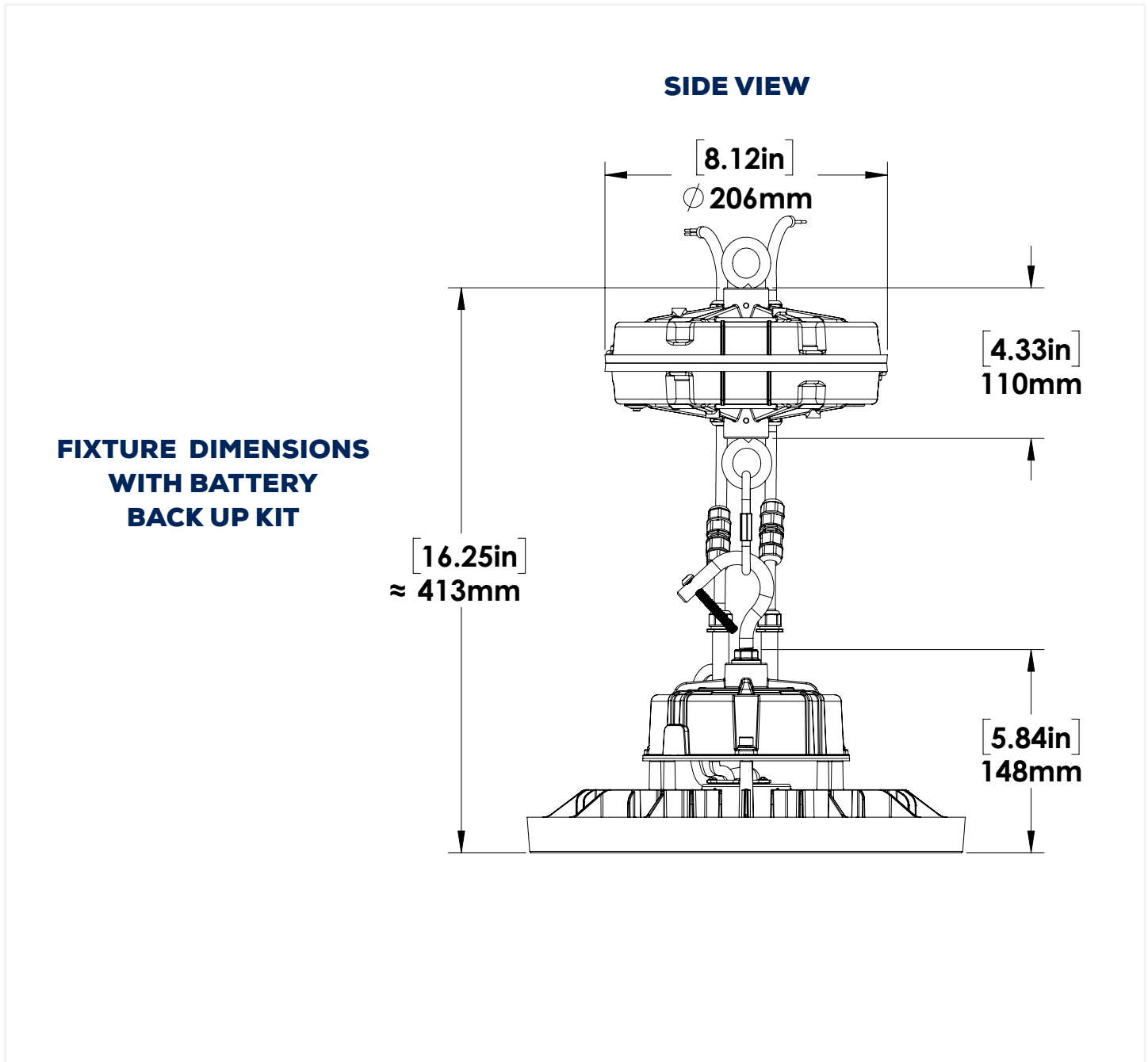
TOP VIEW



SIDE VIEW



DIMENSIONS:

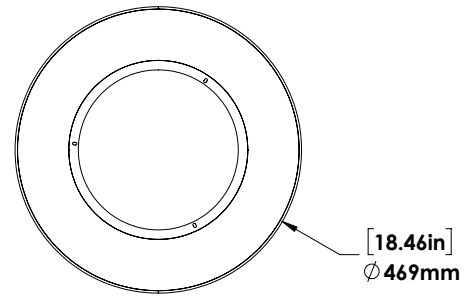


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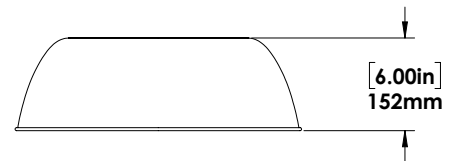


**ALUMINUM
REFLECTOR**

TOP VIEW

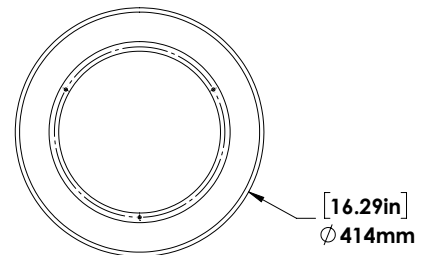


SIDE VIEW

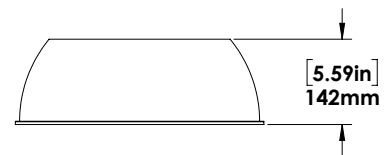


**PC REFLECTOR
(CLEAR PRISMATIC)**

TOP VIEW

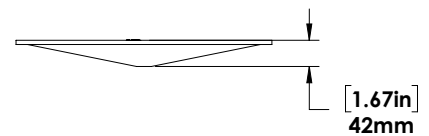


SIDE VIEW

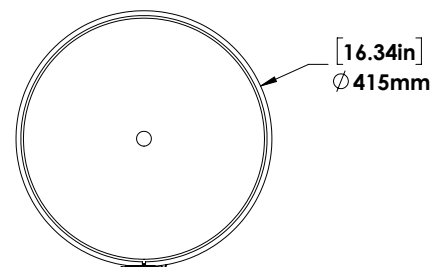


**PC REFLECTOR
COVER
(CLEAR PRISMATIC)**

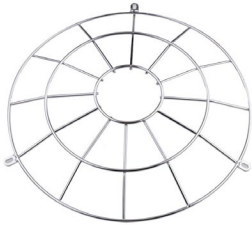
SIDE VIEW



TOP VIEW

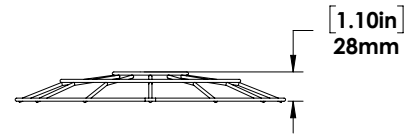


DIMENSIONS:

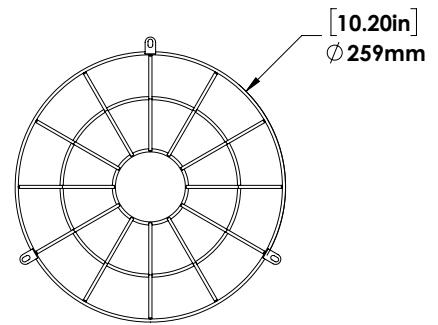


WIRE GUARD

SIDE VIEW

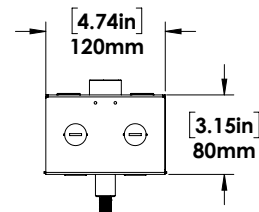
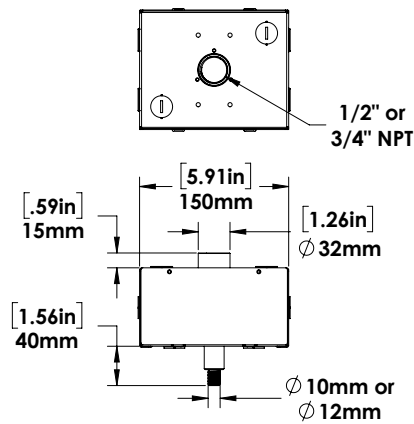


TOP VIEW

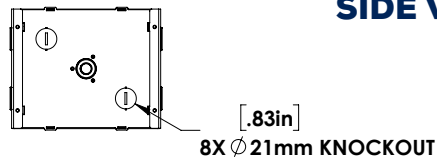


**JUNCTION BOX
WITH 1/2" OR 3/4"
NPT ADAPTER**

TOP VIEW



SIDE VIEW



AMPERAGE DRAW & SURGE PROTECTION

| | CURRENT (A) | | | | | SURGE PROTECTION (kV) | |
|------------------|-------------|-------|-------|-------|-------|-----------------------|----------|
| | 120V | 208V | 240V | 277V | 347V | 120-277V | 120-347V |
| RHB1S-LED100A60 | 0.88A | 0.51A | 0.44A | 0.38A | 0.31A | 6kV | |
| RHB1S-LED150A100 | 1.32A | 0.76A | 0.66A | 0.57A | 0.57A | | |

LUMEN ADJUSTABLE SETTINGS*

| RHB1S-LED100A60 | | | |
|------------------|-------|-------|-------|
| WATTS | 60W | 80W | 100W |
| LUMENS | 8591 | 11454 | 14301 |
| RHB1S-LED150A100 | | | |
| WATTS | 100W | 120W | 150W |
| LUMENS | 14510 | 17412 | 21827 |

*These lumen values are for B voltage.

WEIGHT (LBS)*

| | |
|------------------|------|
| RHB1S-LED100A60 | 6.39 |
| RHB1S-LED150A100 | |

LUMEN MAINTENANCE

| | 50,000 HRS | 75,000 HRS | 100,000 HRS |
|------------------|------------|------------|-------------|
| RHB1S-LED100A60 | 90.3% | 85.7% | 81.4% |
| RHB1S-LED150A100 | 90.3% | 85.7% | 81.4% |

*These weight values are for B voltage.

SPECIFICATIONS

| Model Number | Voltage (V) | Max Power (W) | Max Light Output (lm) | Efficacy (lm/W) | THD (%) | PF | CCT (K) |
|-----------------------------------|-------------|---------------|-----------------------|-----------------|---------|-------|-----------|
| RHB1S-LED100A60-B-VK-BLK-DIM-PCL | 120-277 | 100 | 14301 | 143.2 | 15.0 | 0.900 | 4000/5000 |
| RHB1S-LED150A100-B-VK-BLK-DIM-PCL | 120-277 | 150 | 21827 | 145.1 | 15.0 | 0.900 | 4000/5000 |
| RHB1S-LED100A60-H-VK-BLK-DIM-PCL | 120-347 | 102 | 14113 | 138.9 | 15.0 | 0.900 | 4000/5000 |
| RHB1S-LED150A100-H-VK-BLK-DIM-PCL | 120-347 | 160 | 22079 | 138.0 | 15.0 | 0.900 | 4000/5000 |

DIMMING WIRE ACCESSIBILITY:



DIMMING WIRE ACCESSIBLE FOR WALL SWITCH WITHOUT THE NEED OF OPENING THE FIXTURE OR CUTTING THE CABLE

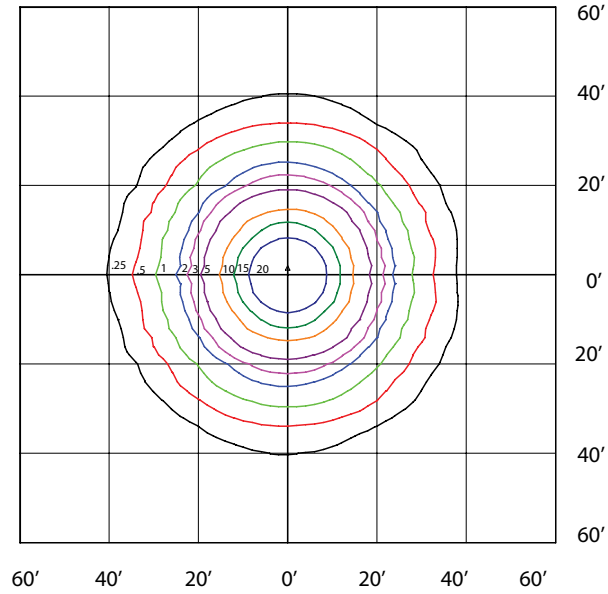


RHB1S-LED150A100-B-VK-DIM (150WATT 4000K)
MOUNTED AT 20 FEET

Total Lumens = 20899

Mounting 20 Feet

Maximum Calculated Value = 26.58 Fc

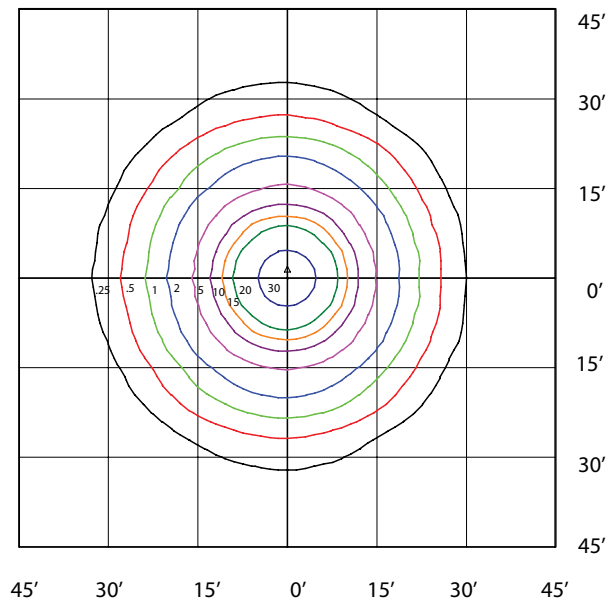


RHB1S-LED100A60-B-VK-DIM (100WATT 4000K)
MOUNTED AT 15 FEET

Total Lumens = 15351

Mounting 15 Feet

Maximum Calculated Value = 34.79 Fc



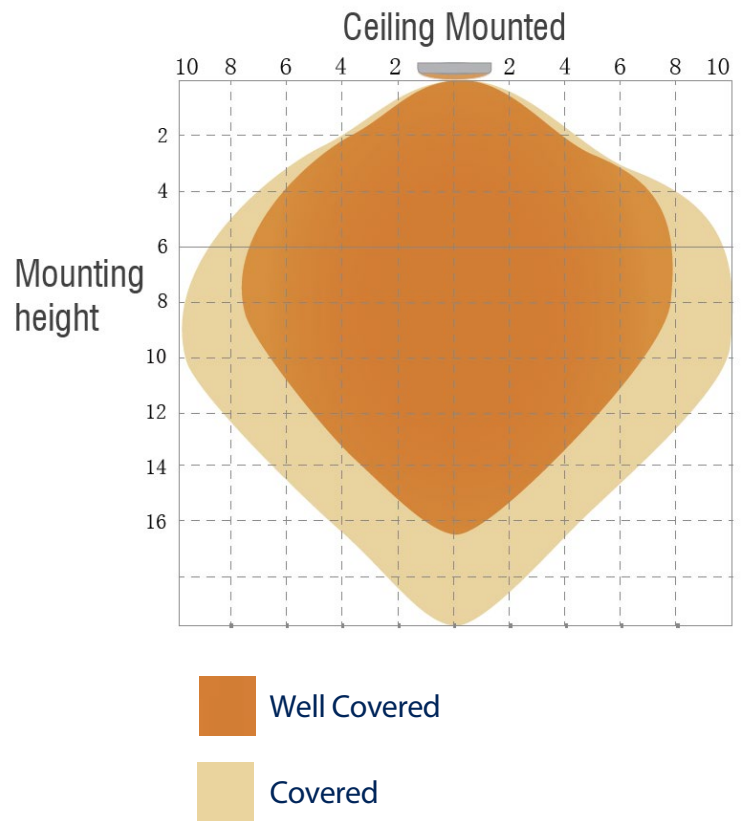
RHB1S/RHB2S DC MOTION SENSOR SETTINGS

SENSOR SPECIFICATIONS

| SPECIFICATIONS | |
|------------------------|-----------------------------------|
| Operating Voltage | 12V DC |
| Operating Current | 30mA |
| Output | 0-10V DC |
| Stand-by Power | 0.5W |
| Frequency | 5.8GHz +/-75MHz |
| IP Rating | IP65 |
| Detection Angle | 30° - 150° |
| Mounting Height | Max 15m (50ft) |
| Brightness | 70%/80%/90%/100% |
| Sensitivity | 20%/50%/75%/100% |
| Hold time | 10s/1min/10min/30min |
| Daylight threshold | 10Lux/30Lux/50Lux/100Lux/Disabled |
| Stand-by time | 1min/30min/60min/+∞ |
| Stand-by Dimming Level | 10%/20%/30%/50% |

| DEFAULT SETTINGS | |
|------------------------|----------|
| Brightness | 70% |
| Sensitivity | 20% |
| Hold time | 10s |
| Daylight threshold | Disabled |
| Stand-by time | + ∞ |
| Stand-by Dimming Level | 10% |

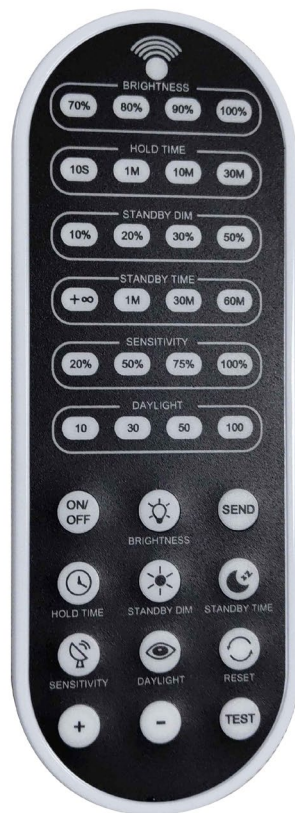
SENSOR DETECTION RANGE (M)



RHB1S/RHB2S DC MOTION SENSOR REMOTE CONTROL

TOP SECTION:
Settings Display Area

BOTTOM SECTION:
Button Setting Area



SPECIFICATIONS

| BUTTON | FUNCTION |
|---------------|---|
| ON/OFF | Long press until the brightness indicator light is on. Then press to permanently turn on and off the fixture. |
| BRIGHTNESS | Sets the highest light fixture brightness when motion is detected. |
| SEND | Uploads the selected remote-control parameters to the light fixture sensor. |
| HOLD TIME | The time the light fixture will remain at the brightness setting after it detects motion. |
| STAND-BY DIM | The Dim level that the light fixture will dim down to after the Hold Time has expired. |
| STAND-BY TIME | The time the light fixture will remain in the Stand-by dim state before it shuts off. To disable the light from shutting off, select the INFINITY icon. |
| SENSITIVITY | Sets the sensitivity to which the sensor will detect motion. |
| DAYLIGHT | The lux setting at which the light fixture will turn on/off. If the ambient lux is more than the defined lux setting, the fixture & sensor function will turn off and remain off until the ambient lux is below the setting. Long press until the daylight indicator light is on. Then press to select the desired lux setting. To disable daylight sensor, long press again. |
| RESET | Resets the light fixture sensor parameters to the default settings. |
| - / + | Press to increase or decrease brightness from 0% to 100%. |
| TEST | Press to test the sensor (hold time is only 3s). |

Note: The sensor cannot be programmed with the remote control when standing right under it.

LED EMERGENCY DRIVER

TECHNICAL DATA

| ITEM | DATA |
|--|---------------------------------|
| Rated Input Voltage | 100-277, 100-347 VAC, 50-60Hz |
| Input Current | 40-150mA |
| Input Power | 8.5W max |
| Power Factor | 0.6 @ 100VAC |
| Output Wire L - out N - out (LED load input) | AC 6A Max, 40W |
| Output Voltage Range | DC 120-200V |
| Max Output Voltage | 250V |
| Battery Pack Voltage/Capacity | LiFePO4 12.8V 6600mAh, 84.48 Wh |
| Recharge Current | 0-500mA |
| Recharge Time | 24 Hours |
| Discharge Time | 90 Minutes |
| Max. Casing Temperature tc. | 70°C |

PROTECTIONS

- Input over current protection.
- Output over voltage protection.
- Output under current protection.
- Output short circuit protection (Emergency Mode).

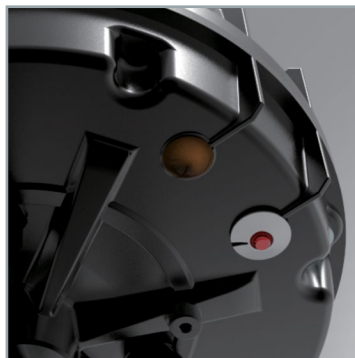
WARNINGS

- It is only used for 1-10V dimmable <300W lighting fixtures.
- Please check and confirm all the data and usage surrounding before installation.
- Damp or wet location.
- Please keep it away from any flammable materials with a place of good heat dissipation.
- Please charge the battery consistently for >24 hours for the first time usage to activate the whole battery cells of discharging/charging duration.



REMOTE CONTROL

- If you press the TEST button once, the system will go into discharging mode for 5 seconds then returns to charging mode.
- If you press H-T (Hold test button), the system will go into charging mode and will keep discharging. By pressing it again, the system will stop discharging and go back into working mode.
- The Max remote control distance is 15 meters.



TEST SWITCH

- Emergency conversion Kit will go into emergency mode if test switch is pressed when main supply is on, while it will go into charging mode if test switch is not pressed.
- In emergency mode, press the test switch for 3 seconds to turn off the current emergency state.

LED INDICATOR

- Red stable: charging mode or charging full.
- Red off: main power off or discharging.

ORDERING GUIDE:

| RHB1S-LED | | VK | | BLK | | DIM | | PCL | | | |
|------------|--|--------------|--|----------------------------------|--|--------------------|--|----------------------|--|------------------------------|--|
| Wattage | | Voltage | | Colour Temp. | | Finish | | Dimming | | Lens | |
| LED100A60 | | B - 120-277V | | VK-Colour Selectable (4K*/5K) | | BLK - Matte Black* | | DIM - 0-10V Dimming* | | PCL - Polycarbonate Lens* | |
| LED150A100 | | H - 120-347V | | | | | | | | | |

WATTAGE MAPPING TABLE

| | |
|---------|----------------|
| 100A60 | 60W/80W/100W |
| 150A100 | 100W/120W/150W |

*Standard Configuration

Ordering Guide For Accessories

Check the items that you wish to order:

- ☐ 080564 RHB1/RHB1S YOKE BLK
- ☐ 002327 RHB1S/RHB2S JUNCTION BOX PENDANT KIT
- ☐ 080902 RHB1S ALUMINUM REFLECTOR
- ☐ 080904 RHB1S POLYCARBONATE REFLECTOR
- ☐ 080905 RHB1S POLYCARBONATE REFLECTOR COVER
- ☐ 002312 RHB1S STEEL WIRE GUARD
- ☐ 080909 RHB1S/RHB2S DC MOTION SENSOR
- ☐ 080970 RHB1S/RHB2S DC MOTION SENSOR REMOTE CONTROL
- ☐ 002329 RHB 40W 120-277V LED EMERGENCY BATTERY BACKUP
- ☐ 002318 RHB 40W 120-347V LED EMERGENCY BATTERY BACKUP