



# Raptor All in 1 Dimmable Highbay

160/100/65W

**Applications:** Industrial and Commercial Applications.

## Product Performance

|                                            |                                                    |
|--------------------------------------------|----------------------------------------------------|
| <b>Wattage</b>                             | 160/100/65W                                        |
| <b>Colour Temperature &amp; Stock Code</b> | 4000/5000/5700K - <b>HB318</b>                     |
| <b>Operating Temperature</b>               | -30~50°C                                           |
| <b>Life Span/ LB Rating</b>                | L80B10@50000 hrs                                   |
| <b>IP Rating</b>                           | IP65                                               |
| <b>LED Driver Brand</b>                    | 3 in 1 Dimmable Moso Driver                        |
| <b>Beam Angle</b>                          | 60-90-120°                                         |
| <b>Impact Protection Grade</b>             | IK08                                               |
| <b>Input Voltage</b>                       | 90V- 305V                                          |
| <b>Surge Protection</b>                    | 6kV                                                |
| <b>Power Factor</b>                        | 0.9                                                |
| <b>CRI</b>                                 | >70                                                |
| <b>Lumen Output</b>                        | 160W = >25600lm   100W= >16000lm<br>65W = >10400lm |

|                         |          |
|-------------------------|----------|
| <b>Lumen Efficiency</b> | >160lm/W |
|-------------------------|----------|

|                  |              |
|------------------|--------------|
| <b>LED Chips</b> | Lumiled 2835 |
|------------------|--------------|

|                      |     |
|----------------------|-----|
| <b>LED Chips Qty</b> | 336 |
|----------------------|-----|

|                 |                                   |
|-----------------|-----------------------------------|
| <b>Dimmable</b> | Yes 3 in 1 (0-10V, PWM, Resistor) |
|-----------------|-----------------------------------|

|                       |        |
|-----------------------|--------|
| <b>Dimmable Range</b> | 1-100% |
|-----------------------|--------|

## Physical Characteristics

|                   |      |
|-------------------|------|
| <b>Weight (g)</b> | 1750 |
|-------------------|------|

|                         |           |
|-------------------------|-----------|
| <b>Housing Material</b> | Aluminium |
|-------------------------|-----------|

|                                |           |
|--------------------------------|-----------|
| <b>Product Dimensions (mm)</b> | 280*113mm |
|--------------------------------|-----------|

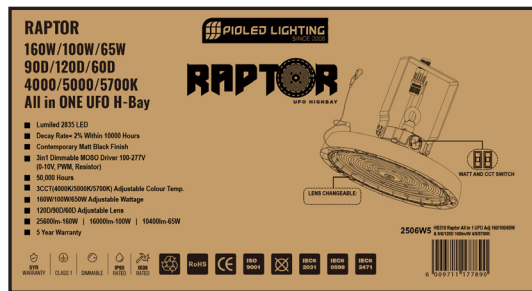
|                     |      |
|---------------------|------|
| <b>Cable Length</b> | 0.3m |
|---------------------|------|

|                        |                                            |
|------------------------|--------------------------------------------|
| <b>Mounting Option</b> | Safety Cable /Hanging Hook/U Shape Bracket |
|------------------------|--------------------------------------------|

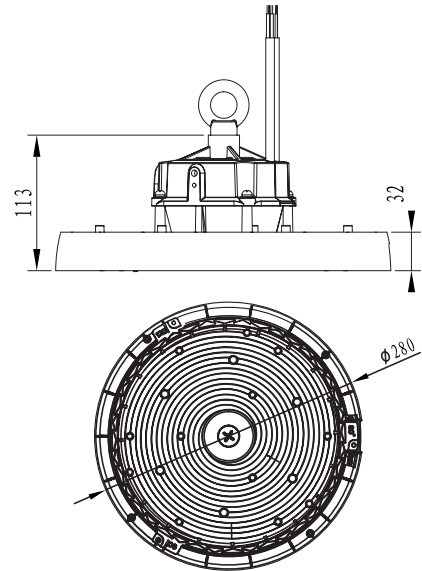
|                         |      |
|-------------------------|------|
| <b>Bracket Material</b> | Iron |
|-------------------------|------|

|                         |                     |
|-------------------------|---------------------|
| <b>Bolts and Screws</b> | 304 Stainless Steel |
|-------------------------|---------------------|

## Packaging



## Dimension Drawing



## Technical Parameters

|                 |                   |
|-----------------|-------------------|
| Input Current   | 0.69A@230V AC     |
| Output Voltage  | 252V DC           |
| Humidity        | 10-100%           |
| Frequency       | 50/60Hz           |
| In Rush Current | 100A              |
| Output Current  | 0.6A              |
| THD             | <10%              |
| TA & TC         | Ta: 45°C Tc: 85°C |
| IES (Yes or No) | Yes               |

## Regulatory Qualifications

|                   |                                          |
|-------------------|------------------------------------------|
| Class Rating      | Class I                                  |
| Energy Efficiency | A                                        |
| Certification     | CE, RoHS, UL, DLC, IEC62031 and IEC60598 |

## Accessories

### Optional accessories

U Bracket, Safety rope and Waterproof Gland included  
 HB317a - Raptor 11-13VDC M-Sensor (3pins) 15M x100pcs  
 HB317b - Remote for HB317a x 20pcs

## Packaging info

|                  |             |
|------------------|-------------|
| Storage Temp     | -30~+50°C   |
| Carton Size (mm) | 620x315x355 |
| QTY/CTN          | 4           |
| Net Weight       | 6.1         |
| Gross Weight     | 8.9         |

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PioLED Lighting (Pty) Ltd | 031 701 5746 | info@pioledlighting.africa

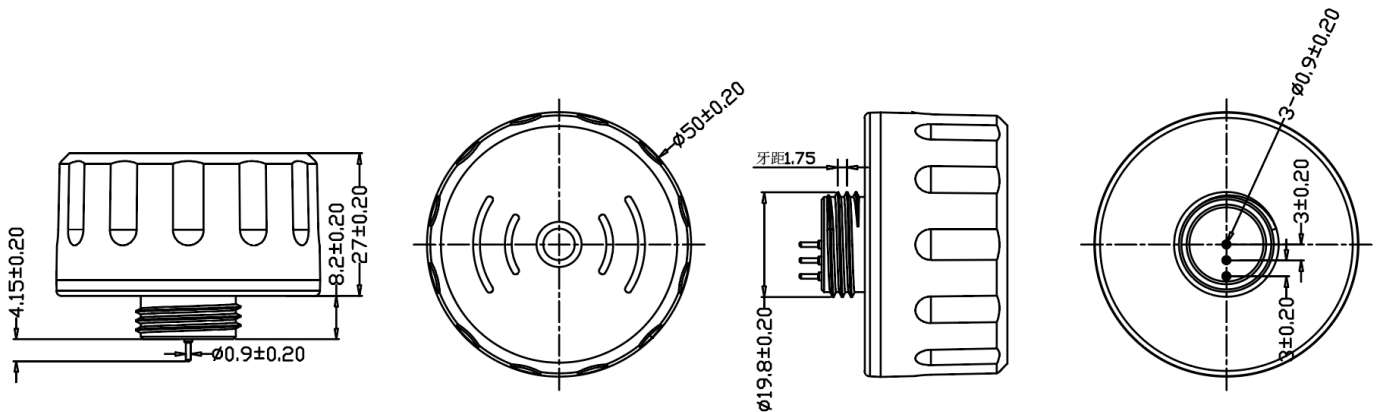
www.pioledlighting.co.za

### HB317a

Raptor 11-13VDC M-Sensor  
(3pins) 15M x 100pcs



# Raptor Accessories



#### Input

|                 |           |
|-----------------|-----------|
| Rated voltage   | 11-13VDC  |
| Working current | <30mA     |
| Ripple voltage  | <100mVp-p |

#### output

|               |                         |
|---------------|-------------------------|
| Output signal | 0 -10VDC dimming signal |
|---------------|-------------------------|

#### Sensor parameters

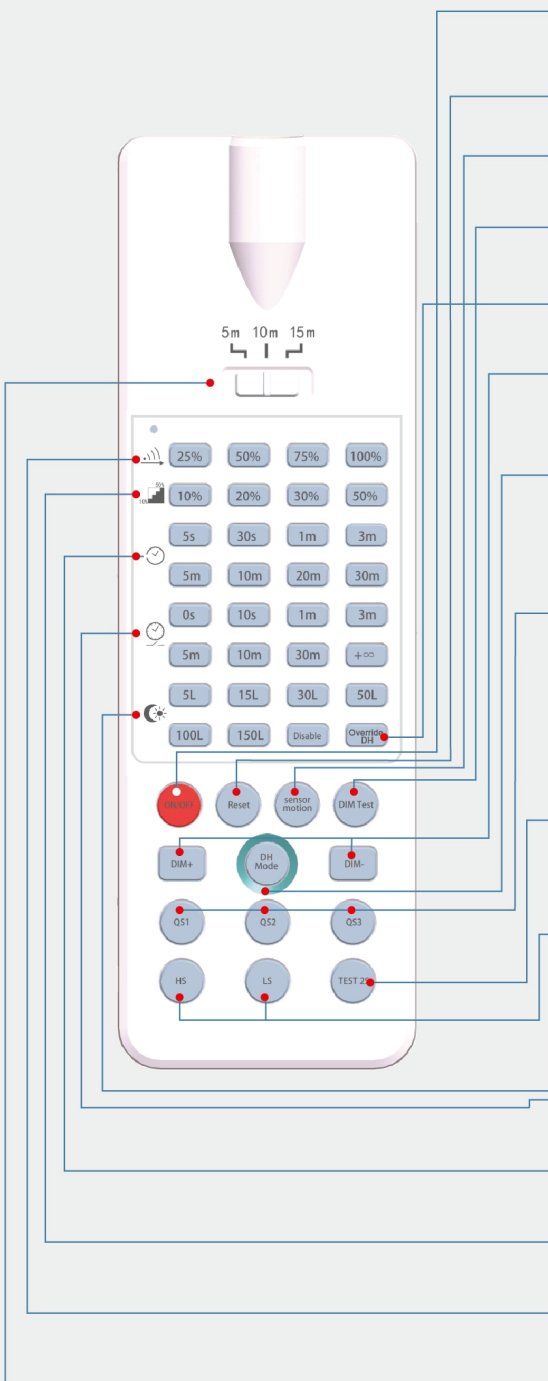
|                          |                                                          |
|--------------------------|----------------------------------------------------------|
| Working frequency        | 5.8GHz ±75MHz, ISM band                                  |
| Transmitting power       | 3mW Max.                                                 |
| Daylight Sensor          | 5lux/15Lux/30Lux/50Lux/100lux/150lux/Disable             |
| Dimming level            | 10%(1.4-1.6V) 20%(1.9-2.1V) 30%(2.9-3.1V) 50% (4.9-5.1V) |
| Detection range (radius) | Ceiling installation 10m high: 0.3m/s≥4m, 1m/s≥3m;       |
| Installation height      | 10m (12m Max )                                           |
| 3db beam angle           | 82°@XZ plane<br>95°@YZ plane                             |

#### Environment

|                     |                                          |
|---------------------|------------------------------------------|
| Working temperature | -35~60℃                                  |
| Storage temperature | -40℃~80℃, humidity ≤85% (non-condensing) |

## HB317b

Remote for HB317a x 20pcs

| Remote Control Setting                                                              | Button                                                                                     | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |               |                 |                    |                 |                    |                 |               |     |      |      |       |     |       |    |     |      |       |       |     |         |    |     |      |       |       |     |         |    |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------|--------------------|-----------------|--------------------|-----------------|---------------|-----|------|------|-------|-----|-------|----|-----|------|-------|-------|-----|---------|----|-----|------|-------|-------|-----|---------|----|
|    |           | Press the "ON/OFF" button, the load light enters the normal on/off mode, and the sensing function is disabled. In the normal on/off mode, the "DIM+/DIM-" function can be used to maintain the load light brightness after powering on again. In the normal on mode, the load light enter ON after powering on again. If the load light is OFF, the load light enter ON after powering on again                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                 |                    |                 |                    |                 |               |     |      |      |       |     |       |    |     |      |       |       |     |         |    |     |      |       |       |     |         |    |
|                                                                                     |           | Press "Reset" button, all parameters are same as factory settings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                 |                    |                 |                    |                 |               |     |      |      |       |     |       |    |     |      |       |       |     |         |    |     |      |       |       |     |         |    |
|                                                                                     |           | Press "Sensor motion" button, the light quits from the normal on/off mode, and the sensor starts to work. (The latest setting stays in validity)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |                 |                    |                 |                    |                 |               |     |      |      |       |     |       |    |     |      |       |       |     |         |    |     |      |       |       |     |         |    |
|                                                                                     |           | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |                 |                    |                 |                    |                 |               |     |      |      |       |     |       |    |     |      |       |       |     |         |    |     |      |       |       |     |         |    |
|                                                                                     |           | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |                 |                    |                 |                    |                 |               |     |      |      |       |     |       |    |     |      |       |       |     |         |    |     |      |       |       |     |         |    |
|                                                                                     |           | Short press "DIM+/DIM-" button to set occupancy light level, the brightness of the load light adjusts at 5% per unit. Dimming range: 50%-100%.<br>Note: In normal ON/Sensor motion mode, the maximum brightness can be set using this button.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               |                 |                    |                 |                    |                 |               |     |      |      |       |     |       |    |     |      |       |       |     |         |    |     |      |       |       |     |         |    |
|                                                                                     |           | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |                 |                    |                 |                    |                 |               |     |      |      |       |     |       |    |     |      |       |       |     |         |    |     |      |       |       |     |         |    |
|                                                                                     |           | <table><tr><th>Scene Options</th><th>Detection Area</th><th>Hold Time</th><th>Stand-by period</th><th>Stand-by dim level</th><th>Daylight Sensor</th><th>Induction way</th></tr><tr><td>QS1</td><td>100%</td><td>5min</td><td>10min</td><td>10%</td><td>30Lux</td><td>HS</td></tr><tr><td>QS2</td><td>100%</td><td>10min</td><td>30min</td><td>10%</td><td>Disable</td><td>HS</td></tr><tr><td>QS3</td><td>100%</td><td>20min</td><td>30min</td><td>10%</td><td>Disable</td><td>HS</td></tr></table><br>Note: The sensor parameters can be adjusted by pressing the corresponding button. When user press any button to change the sensor parameters, the last setting prevails. If the sensor doesn't have the function of the above parameters, that parameter is invalid. (Stand-by period and Stand-by DIM Level are not applicable to ON-OFF Sensor. Induction way is not applicable to low-mount sensor) | Scene Options | Detection Area  | Hold Time          | Stand-by period | Stand-by dim level | Daylight Sensor | Induction way | QS1 | 100% | 5min | 10min | 10% | 30Lux | HS | QS2 | 100% | 10min | 30min | 10% | Disable | HS | QS3 | 100% | 20min | 30min | 10% | Disable | HS |
|                                                                                     | Scene Options                                                                              | Detection Area                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Hold Time     | Stand-by period | Stand-by dim level | Daylight Sensor | Induction way      |                 |               |     |      |      |       |     |       |    |     |      |       |       |     |         |    |     |      |       |       |     |         |    |
|                                                                                     | QS1                                                                                        | 100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5min          | 10min           | 10%                | 30Lux           | HS                 |                 |               |     |      |      |       |     |       |    |     |      |       |       |     |         |    |     |      |       |       |     |         |    |
|                                                                                     | QS2                                                                                        | 100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10min         | 30min           | 10%                | Disable         | HS                 |                 |               |     |      |      |       |     |       |    |     |      |       |       |     |         |    |     |      |       |       |     |         |    |
|                                                                                     | QS3                                                                                        | 100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 20min         | 30min           | 10%                | Disable         | HS                 |                 |               |     |      |      |       |     |       |    |     |      |       |       |     |         |    |     |      |       |       |     |         |    |
|                                                                                     |         | Press the "TEST 2s" button can enter the test mode anytime. At test mode, the sensor parameters as below: Detection Area is 100%, Hold Time is 2s, Stand-by Dim Level is 10%, Stand-by period is 0s, Daylight sensor is disabled. This function only for testing. Quit the test mode by pressing "RESET" or any other function buttons. This mode has no memory function. After powering on again, the parameters are restored to the last setting.<br>Note: If the sensor have the wireless networking function, the button provides the functions is entering the distribution network mode.                                                                                                                                                                                                                                                                                                                 |               |                 |                    |                 |                    |                 |               |     |      |      |       |     |       |    |     |      |       |       |     |         |    |     |      |       |       |     |         |    |
|                                                                                     |         | Press "HS" button to set the detection area to high sensitivity. Press "LS" button to set the detection area to low sensitivity. The Induction mode is adjusted at the setting detection area.<br>Note: This button is invalid for low-mount sensor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |                 |                    |                 |                    |                 |               |     |      |      |       |     |       |    |     |      |       |       |     |         |    |     |      |       |       |     |         |    |
|                                                                                     |         | Daylight Sensor<br>Set up Daylight Sensor: 5Lux/15Lux/30Lux/50Lux/100Lux/150Lux/Disable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |               |                 |                    |                 |                    |                 |               |     |      |      |       |     |       |    |     |      |       |       |     |         |    |     |      |       |       |     |         |    |
|                                                                                     |         | Stand-by period<br>Set up Stand-by period: 0s/10s/1min/3min/5min/10min/30min/+∞<br>Note: Stand-by period is not applicable to ON-OFF Sensor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |                 |                    |                 |                    |                 |               |     |      |      |       |     |       |    |     |      |       |       |     |         |    |     |      |       |       |     |         |    |
|                                                                                     |         | Hold time<br>Set up Hold time: 5s/30s/1min/3min/5min/10min/20min/30min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               |                 |                    |                 |                    |                 |               |     |      |      |       |     |       |    |     |      |       |       |     |         |    |     |      |       |       |     |         |    |
|                                                                                     |         | Stand-by dim level<br>Set up stand-by dim level: 10%/20%/30%/50%<br>Note: Stand-by DIM Level is not applicable to ON-OFF Sensor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |                 |                    |                 |                    |                 |               |     |      |      |       |     |       |    |     |      |       |       |     |         |    |     |      |       |       |     |         |    |
|  | Detection Area<br>Set up Detection Area: 25%/50%/75%/100%                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                 |                    |                 |                    |                 |               |     |      |      |       |     |       |    |     |      |       |       |     |         |    |     |      |       |       |     |         |    |
|  | Remote Distance<br>Toggle bottom can set the remote distance of remote control and sensor. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                 |                    |                 |                    |                 |               |     |      |      |       |     |       |    |     |      |       |       |     |         |    |     |      |       |       |     |         |    |

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