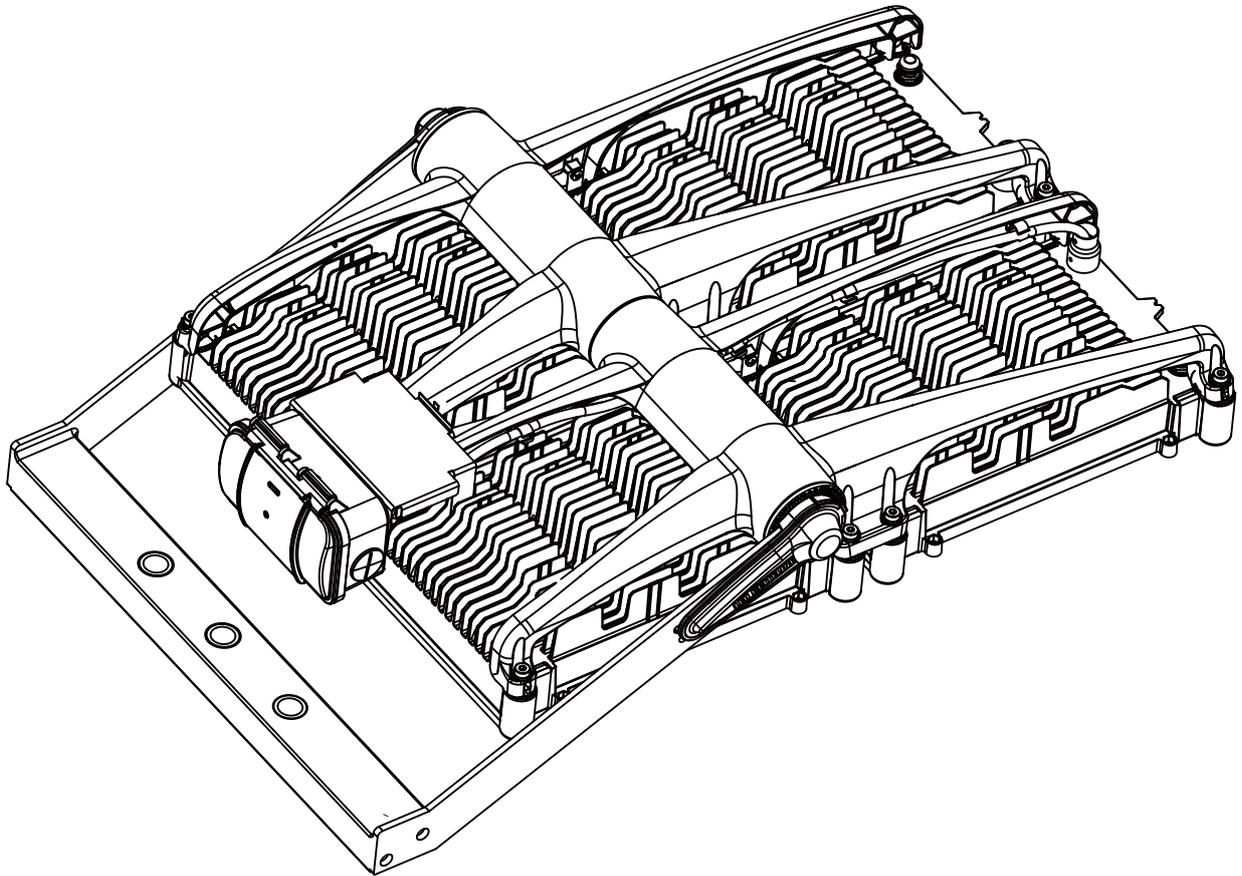


**SYLVANIA**

**SYLVANIA**  
***Briteline™ LED Raptor 2***



**Installation / Warranty Instructions**

## INSTALLATION / WARRANTY INSTRUCTIONS

issue date: 04/2019

**PRODUCT BRAND** - Sylvania

**PRODUCT NAME / CODES** - Sylvania Briteline LED Raptor - SR4H757A1LG2, SR4H757A2LG2, SR4H757A3LG2, SR4H857A1LG2, SR4H857A2LG2, SR4H857A3LG2, SR4H740A1LG2, SR4H740A2LG2, SR4H740A3LG2, SR4H840A1LG2, SR4H840A2LG2, SR4H840A3LG2

**PLEASE READ THESE INSTALLATION INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR MAINTAINING THIS EQUIPMENT. THE PRODUCT IS DESIGNED FOR INSTALLATION AND MAINTENANCE IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS (AS3000) AND LOCAL REGULATIONS (WHERE APPLICABLE), BY AN AUTHORISED AND LICENCED ELECTRICIAN.**

THE INSTALLATION INSTRUCTIONS WERE CORRECT AT THE TIME OF PRINT. TO REFLECT CHANGES IN TECHNOLOGY AND AUSTRALIAN STANDARDS; GERARD LIGHTING RESERVES THE RIGHT TO AMEND THE INSTRUCTIONS WITHOUT NOTICE. UPDATED GUIDELINES CAN BE FOUND ON THE RELEVANT BRAND WEB SITE.

**IMPORTANT** - THE PRODUCT MUST BE MAINTAINED AND OPERATED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, FAILURE TO DO SO MAY DAMAGE THE PRODUCT AND SERVICES. IT IS STRONGLY RECOMMENDED THAT THIS IMPORTANT NOTE BE COMMUNICATED TO THE OWNER AND OR OPERATOR OF THE INSTALLATION AT THE TIME OF SITE COMMISSIONING. GOOD PRACTICE DOES NOT RECOMMEND THE 24/7 USE OF PRODUCTS WITHOUT THE APPLICATION OF SUITABLE SWITCH CYCLE INTERVALS. FURTHERMORE, WITH THE OMISSION OF NOMINATED SURVIVAL CURVES AND OR RECOMMENDED OPERATING HOURS, PRODUCT DESIGN EXPECTATIONS PROVIDE FOR A CONTINUAL DAILY USAGE OF 6 HOURS FOR RESIDENTIAL APPLICATIONS AND A CONTINUAL DAILY USAGE OF 12 HOURS FOR COMMERCIAL AND INDUSTRIAL APPLICATIONS. ALL PRODUCTS MUST BE THOROUGHLY CLEANED ON A REGULAR BASIS AT INTERVALS THAT REFLECT IN THE INSTALLATION ENVIRONMENT, ENSURING THE OPTICAL PERFORMANCE, TOGETHER WITH THE ELECTRICAL, MECHANICAL AND STRUCTURAL INTEGRITY AS DESIGNED, IS MAINTAINED THROUGHOUT THE SERVICE LIFE OF THE PRODUCT.



### 1. PRODUCT SPECIFICATION: Luminaire head only – Control gear refer additional instruction manual

Product brand	- Sylvania
Product weight	- 28.3Kgs
Type of Protection	- Class I
IP Rating - for interior products, the IP rating nominated is "from below the ceiling" unless specifically nominated.	- IP66
Important – when installing electronic or HID lighting equipment, the installer must consider the In-rush start current (if any) as documented on the control gear identification label when selecting appropriate circuit controls or protective devices.	
Voltage	- 130 – 150V DC per channel
Current	- 2.1 - 2.2A per channel
Rated Minimum / Maximum Ambient Temperature	- 0°C / 40°C
Suitable for direct mounting on flammable surfaces	- NO
Dimmable	- Refer compatible control gear
Installation orientation	- -10 deg to +60 deg on the horizontal refer page 5
Designed application	- Exterior use only: Refer Section 6A
Rated average design life	- 50000hrs @ L90
Minimum distance from lit objects	- 5m

**2. APPROVALS:** The RCM marking of this product applies to AS/NZS CISPR15 (EMC) "Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment". This product is designed to conform to AS/NZS60598.1:2013 "Luminaires, general requirements and tests", AS/NZS60598.2.5:2002 "Luminaires - Particular requirements – Floodlights"



**3. STORAGE:** Prior to installation products are to be stored in cool and dry conditions.

**4. APPLICATION:** The installation application and orientation of the product is designed in accordance with the nominated product IP rating, class designation and these installation instructions. Installation environments and operating conditions beyond these instructions are not recommended.

**5. INSTALLATION / GENERAL:** Installation of the product is to be completed by an authorized and licensed electrician, in accordance with these instructions, relevant Australia standards and local regulations (where applicable). Termination of product wiring, together with the installation of the product must be in a manner and orientation that maintains the integrity of the designated IP rating of the product For electronic control equipment (when supplied) DO NOT MEGGER between A and N.

**6. INSTALLATION / SPECIAL CONDITIONS** (relevant only for products approved for such an installation):

**(a) products installed in high wind environments** must have suitable installation / fastening methods applied to ensure the product's mounting points are not damaged through, corrosion, constant vibration and or movement. Exterior products are designed with precise vertical aiming limits, which should not be exceeded. Any vertical floodlight aiming requirements should

be specifically validated in writing with the relevant brand before consideration. Product has been tested and compliant to AS/NZS60598.2.5:2002 Region C, Terrain Category 2 Wind Loading, for wind speeds up to 250Km/H at a mounting height of 20m, after such an occurrence the luminaire may require re aiming to original lighting design. For areas outside of this scope, requirements should be specifically validated in writing with the relevant brand before consideration

For luminaires located in Wind Region A and mounted as per table below, no re aiming will be required.

**Wind Region A**

Terrain Category and installation height	10m maximum for Terrain Category 2 20m maximum for Terrain Category 2.5 30m maximum for Terrain Category 3
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Table above measured to AS/NZS1170.2:2011 "Structural Design Actions – Wind Actions"

**(b) products installed in corrosive or salt laden environments** require special consideration and such; specific product selection, inclusive of suitable fastening methods and extensive ongoing maintenance of products installed in these environments require professional advice. It is essential that all aspects of the product selection, material specification and maintenance are specifically designed for such use and a cleaning program be adopted that maintains the design integrity of the product.

**7. MAINTENANCE:**

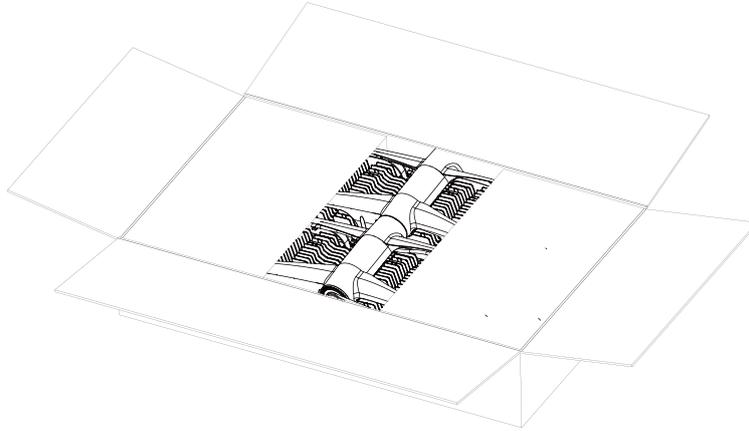
**(a)** The supply must be isolated before opening or accessing the luminaire. Product maintenance is IMPORTANT and is critical to the products designed performance. The product is to be maintained in accordance with the manufacturer’s instructions. For the latest product maintenance guides please go to relevant brand web site. Gerard Lighting is not responsible for any product not maintained in accordance with the recommended procedure or intervals. **(b) lamps (where provided):** The product is designed with the supplied (LEDs) / LAMP/s and it is strongly recommended that any LAMP / (LEDs) changes (if any) be made in accordance with the type, colour and brand supplied. For recommended LAMP / LED maintenance or operating guides (inclusive of recommended product switch cycles and mandatory run-in procedures for HID and Fluorescent lamps when used with dimming circuits), Gerard Lighting recommends the application of the lamp manufacturer’s operating guidelines, which can be found on manufacturer’s website. Gerard Lighting is not responsible for the product performance of alternative lamp/s used. As a member of FluroCycle, we encourage recycling of lamps and components. **(c)** Luminaire must be kept clear of foreign matter – buildup of debris will degrade performance and void warranty. **(d) Do not use high pressure cleaners.** To maintain peak optical performance, glass shall be wiped down with a damp cloth. Do not use any abrasives or chemicals. **(e) for products supplied with glass visors or covers,** do not operate the product with a damaged visor or cover; it is recommended the product be turned off, area surrounding the product vacated and the damaged glass replaced by a professional installer immediately.

**8. WARRANTY INSTRUCTIONS:** For the purpose of warranty claims (if any) the following instructions apply:  
**Warranty components** – THE PRODUCT, (identified as the Briteline LED Raptor 2 SR4H Series). **Warranty period** - The above components are provided with a warranty of FIVE (5) year/s or 20,000 hours of operation (which ever arrives first) against manufacturing defects or failure to perform to specifications for products installed by an authorised installer in accordance with the manufacturer’s installation instructions and which have not been subject to incorrect operation or maintenance, unauthorised modification or damage arising from any intervening cause. **Warranty reference** - The warranty reference date commences from the date of purchase. **Warranty point of contact** – Gerard Lighting Pty Ltd, 96 Gow Street Padstow NSW 2211, phone T 02 9794 9300 contact – Gerard Lighting After Sales Support.

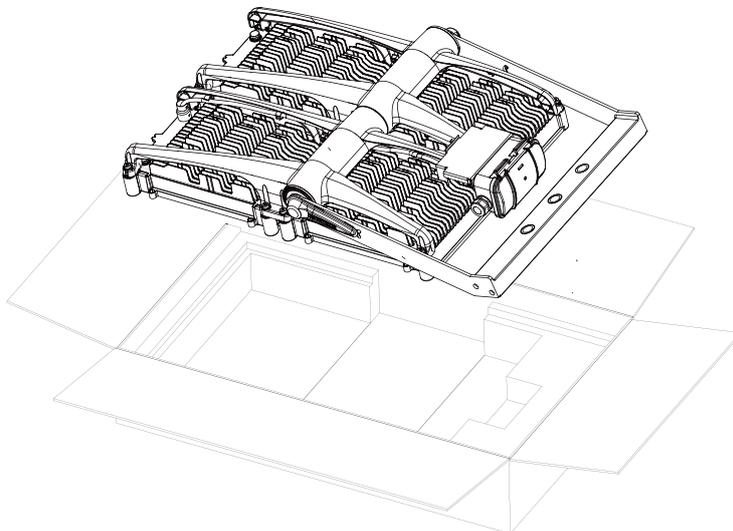
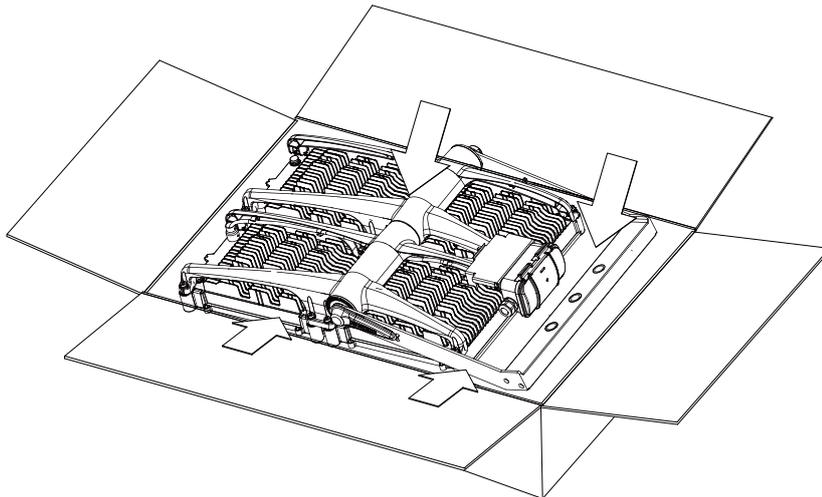
**Warranty claim procedure** – For the purpose of making a claim the customer must:  
1. Contact the "point of contact" above and upon provision of proof of purchase the customer will receive a goods return advice (GRA) number. 2. At the customer’s expense, collect and return the goods to the "point of contact" with the issued GRA number. 3. Upon receipt of the goods, Gerard Lighting will review the claim and if found to be accepted, Gerard Lighting will return a replacement product to the customer to install at the customer’s expense. Alternatively if the claim is rejected, the customer may request the return of the goods at their expense. **Consumer Contracts** - The benefits to the customer given by the Gerard Lighting warranty are in addition to other rights and remedies of the customer if the goods are the subject of a Consumer Contract under the Australian Consumer Law. In that event the following statement is required to be brought to the Consumer’s attention:- *Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.* **Limitation of Liability** – if the goods are not purchased by the customer under a Consumer Contract within the Australian Law then but not otherwise;- (a) the Company is not liable in tort for any loss or damage suffered by the customer or by any third party; and (b) in no circumstances is Gerard Lighting liable to the customer or to any third party for any loss of profits, loss of anticipated savings, economic loss or interruption of business or for any indirect or consequential loss (Consequential Loss). **Terms of Sale** – these Warranty provisions are in substitution for any inconsistent provisions in the Gerard Lighting Terms and Conditions of Sale in so far as they apply to the Warranty components.

Remove from carton

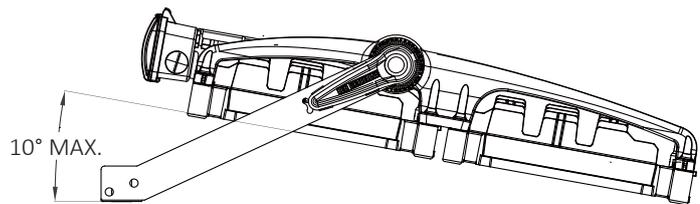
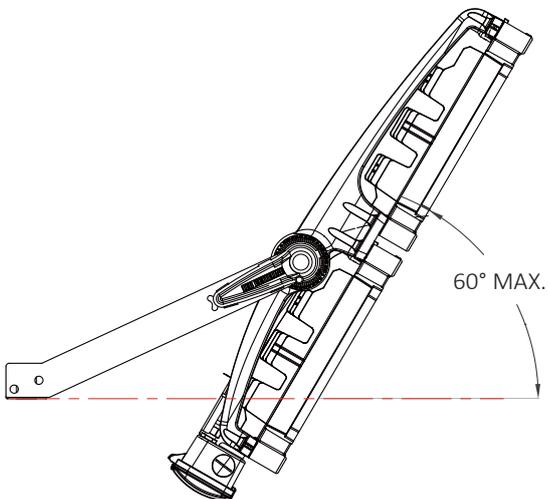
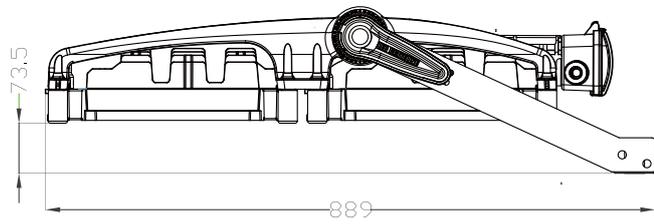
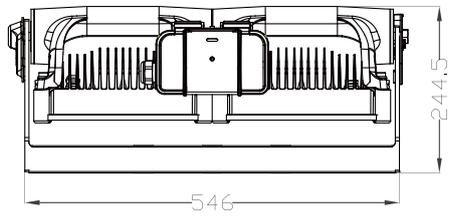
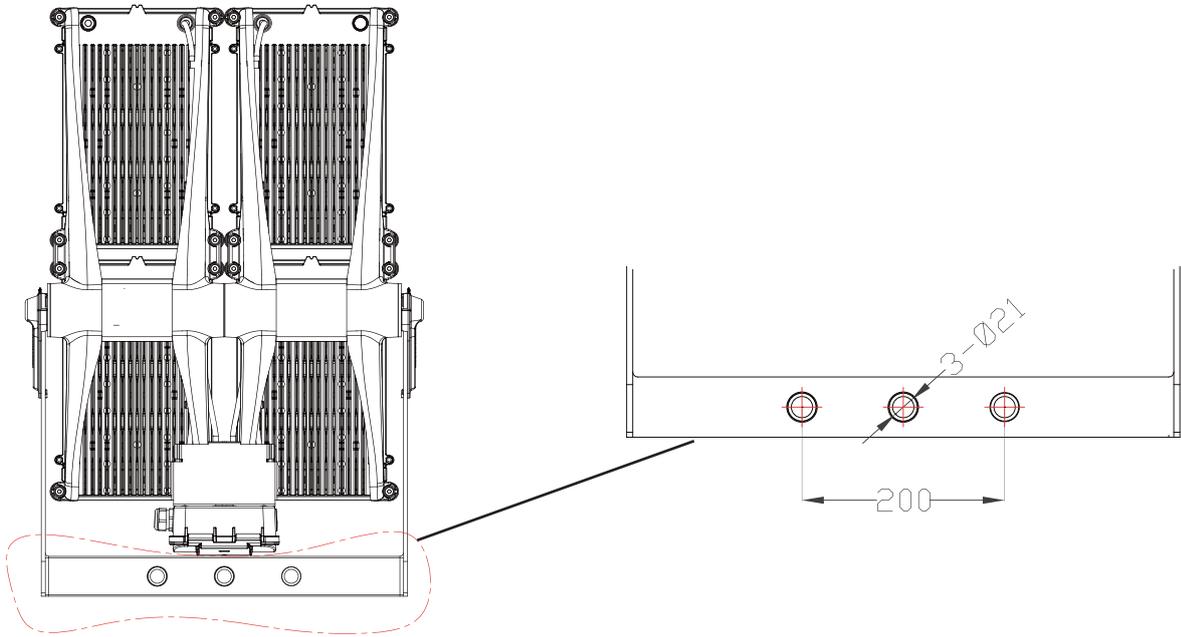
Carton Weight 34kgs

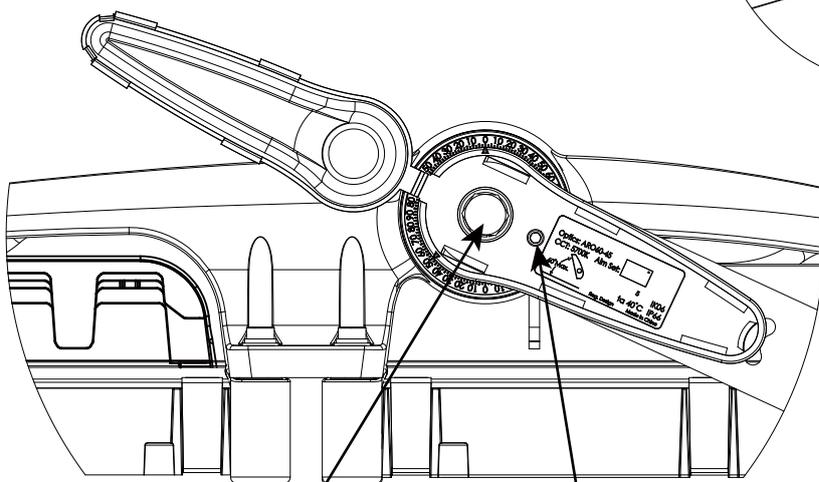
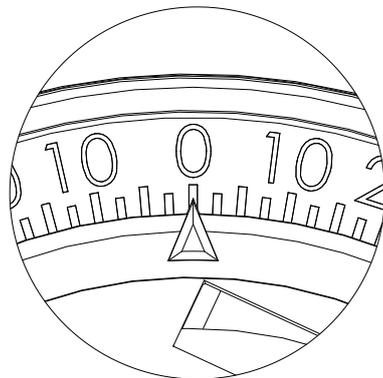
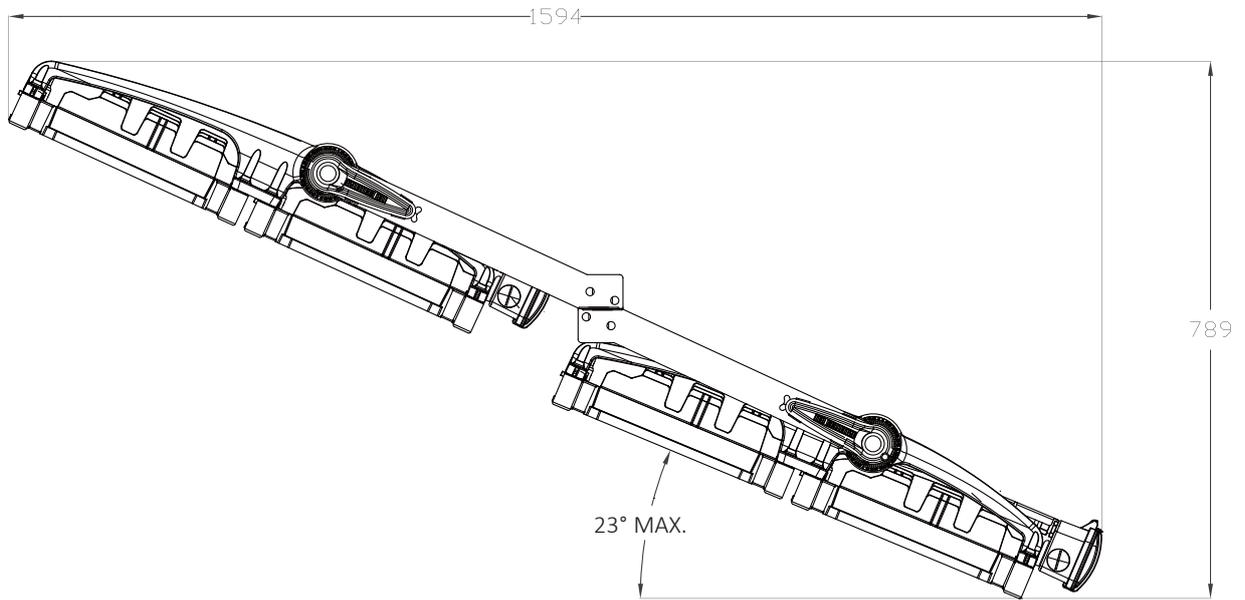


Lifting point indicated



Fixture Dimensions

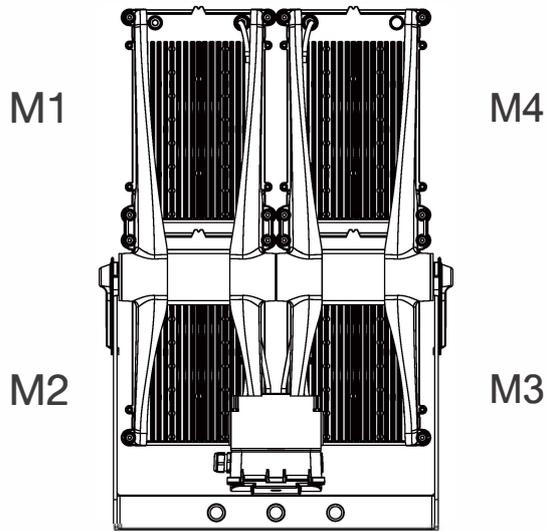




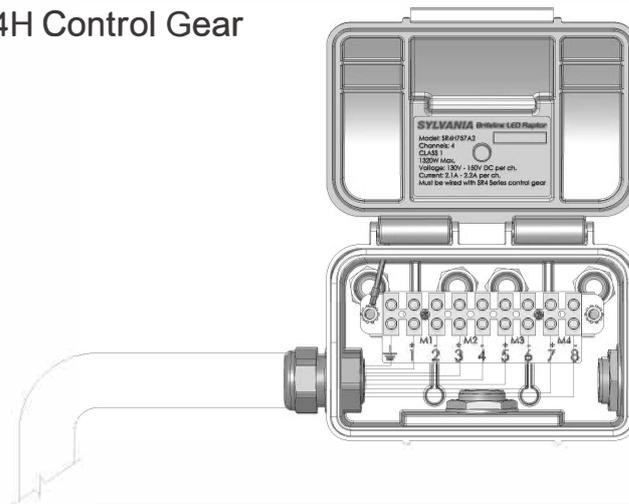
TORQUE SETTING OF  
THIS SCREW IS 95Nm

TORQUE SETTING OF  
THIS SCREW IS 60Nm

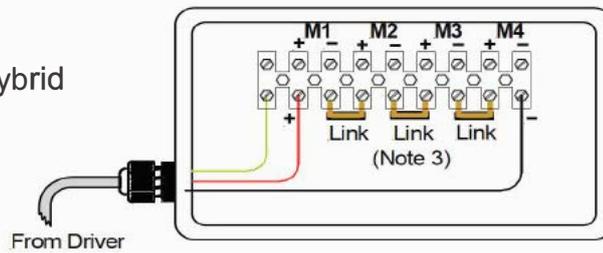
## Module Identification



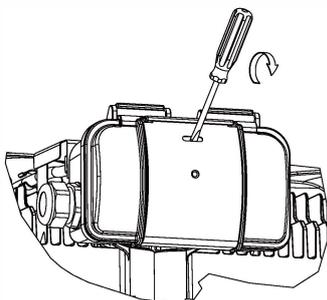
## Wiring for SR4H Control Gear



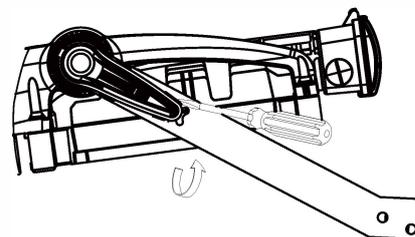
## Junction Box Wiring Hybrid (SRFH) Control Gear



## Junction Box Access



## Cover Access

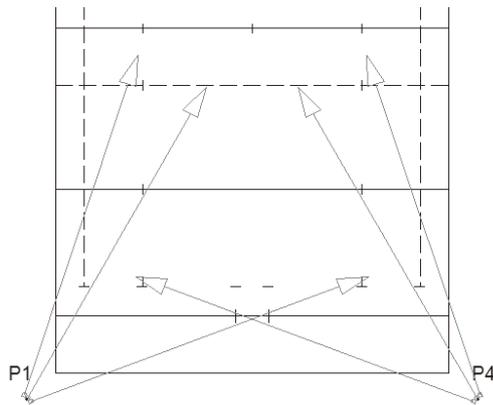


# Aiming

There are 2 ways to set the correct aiming. When mounted on poles, it is recommend that for best accuracy the aiming is done after the poles and floodlights have been erected and have been allowed to settle into their installed position.

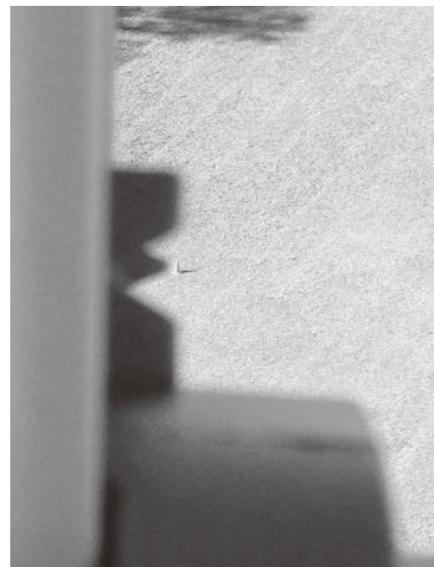
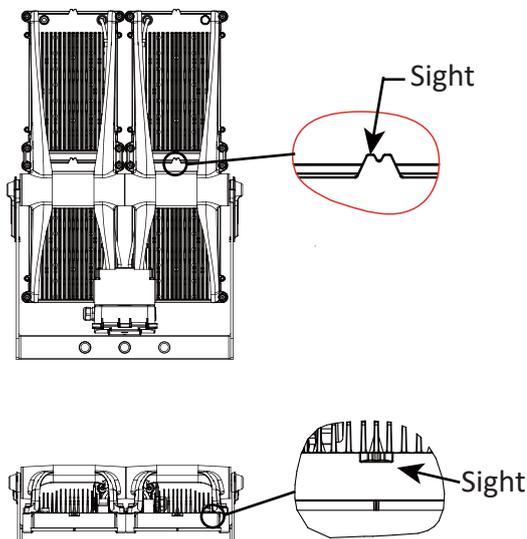
## Method 1 – with inclinometer

1. Place markers, (visible from floodlight), at reference points according to lighting design.



2. To set the horizontal rotation (azimuth, this is generally set first):
  - a. Slightly loosen/tighten the torque on the trunnion bracket bolt so the floodlight can be rotated while the weight is still held securely.
  - b. Unclip the plastic bolt head caps from the two side adjustment bolts (if necessary). Slightly loosen/tighten the torque on the side bolts so the floodlight can be tilted while the weight is still held securely.
  - c. Rotate in azimuth, and tilt up/down the elevation of the floodlight to enable the sighting of the appropriate marker through one of the v-notch and post sights provided at various locations on the housing (Fig 1). Other straight sides/edges/heat sinks can also be used to line up the marker.

Fig 1



- d. Tighten the trunnion bracket mounting bolt to the required torque (by others) so that floodlight will no longer rotate.
  - e. The azimuth angle can be marked for future reference by marking a line in the cross arm along the back and/or front of the trunnion bracket foot (without damaging galvanising).
3. To set the tilt angle (elevation):
- a. The tilt is adjusted using the front glass as a reference plane. Attach an accurate inclinometer to indicate tilt of the glass according the lighting design. Avoid the irregular edges of the modules. Note, when the glass is horizontal, the built-in protractor will indicate zero.
  - b. Tighten side bolts so that the floodlight will no longer tilt (95 Nm).
  - c. Tighten the safety side screws (Hex - 60 Nm).
  - d. The tilt angle can be marked for future reference by writing in the box provided on the type label near the side bolt.
  - e. Clip on the plastic bolt covers.



*Note regarding the built-in protractor:*

*This actually indicates the angle of the glass with respect to the trunnion bracket, and not necessarily the true horizontal. Its reading relies on the levelness of its mounting surface being truly horizontal for the actual tilt of the floodlight to be correctly indicated. It is for this reason that it is not recommended that the built-in protractor is used for accurate aiming. It is for approximate aiming only.*

*Note regarding a lighting design with an asymmetric optic:*

*The lighting design will normally list the tilt angle of the floodlight with respect to the downward vertical (nadir). Depending on the format of the photometric data used, the design can present the tilt angle is one of two ways:*

- 1. The tilt of the glass, where a typical design would have tilts of 0-10 degrees (Fig. 2), or*
- 2. The tilt of the peak intensity (or similar reference direction), where a typical design would have tilts of 60-70 degrees (Fig. 3).*

*The latter type is generally preferred as the aiming arrow (vector), and thus the aiming points used by the design will correspond to where the peak intensity is directed. Where a reference direction angle is used, it is necessary know the difference between this angle and the nadir ( $B^\circ$ , see Fig 3). This should be noted in the design schedules, and it can be different for each beam type, e.g. NB/60°.*

For example, a Raptor using an asymmetric Narrow Beam A2 reflector type (with a  $B=60^\circ$  offset) that requires a tilt of  $66^\circ$  should have the glass tilted  $66-60=6^\circ$ . Tilts can be negative.

Fig 2

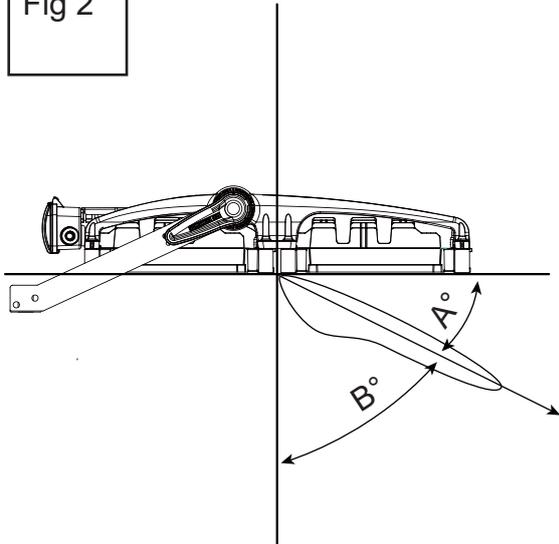
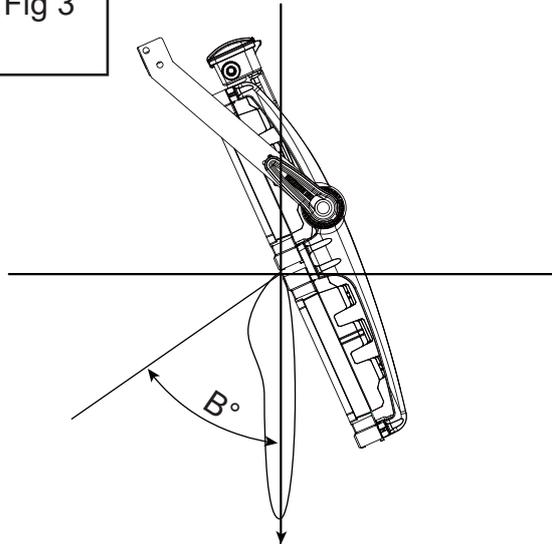
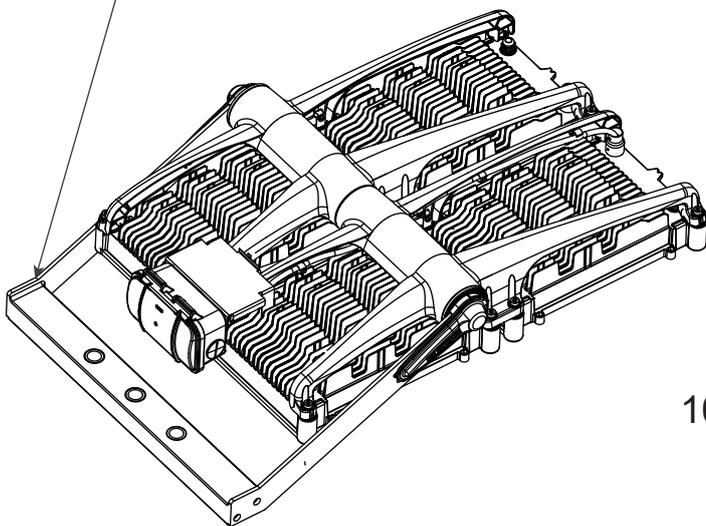


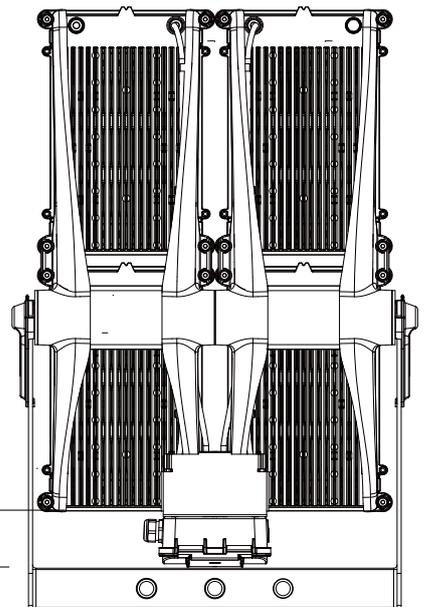
Fig 3



Cable must be secured to trunnion after aiming



100mm MIN.



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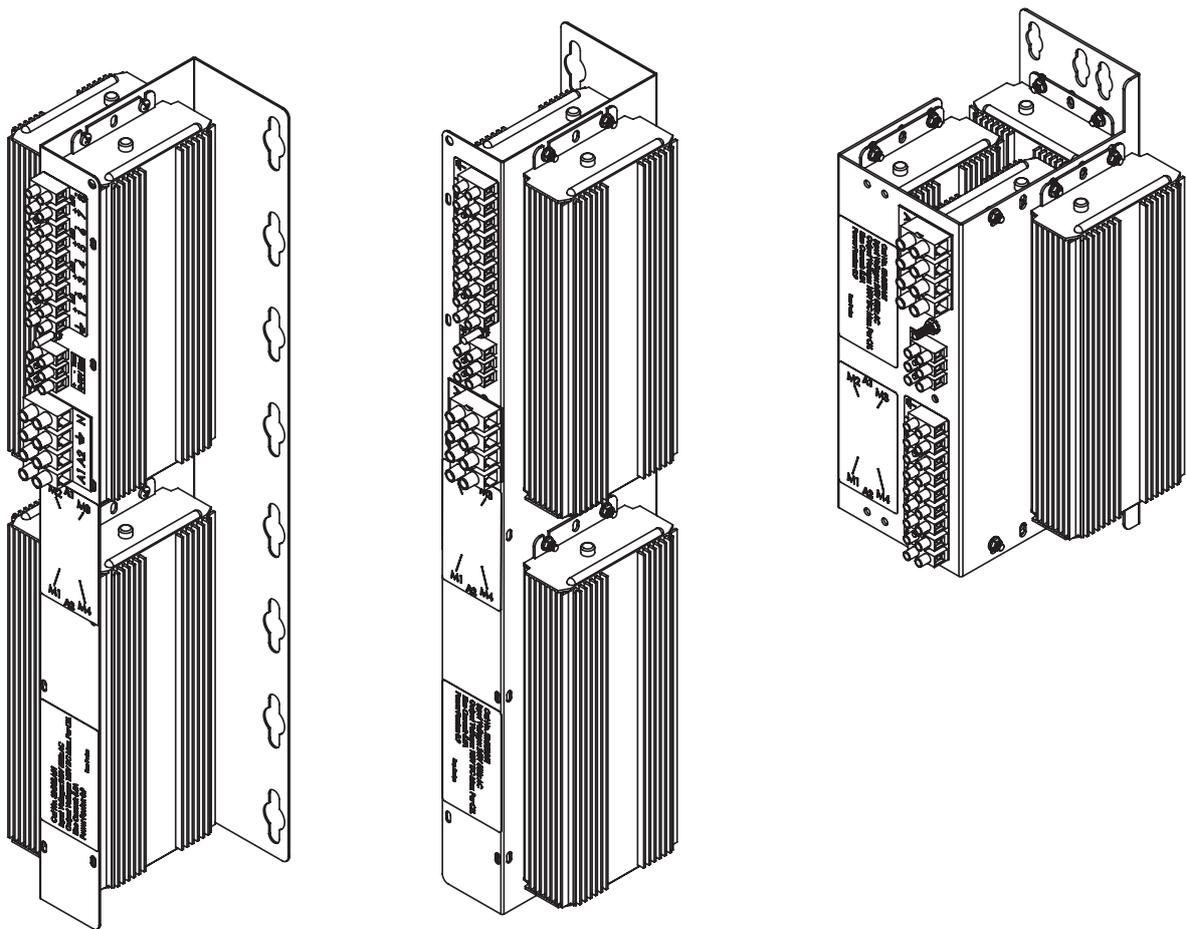
**SYLVANIA**  
***Briteline™ LED***  
***Raptor 2***

**SYLVANIA**

# ***Briteline™ LED Raptor***

## **4 MODULE SYSTEM**

### **GEARTRAY INSTRUCTIONS** **0-10V Dimming**



Installation Sheet: 99034297

Gerard Lighting Pty Ltd  
96 - 112 Gow Street, Padstow, NSW 2211  
Tel: 02 9794 9300

[www.gerardlighting.com.au](http://www.gerardlighting.com.au)

**GERARD**  
L I G H T I N G

## INSTALLATION / WARRANTY INSTRUCTIONS

<b>PRODUCT BRAND</b>	- Sylvania
<b>PRODUCT NAME / CODES</b>	- Sylvania Briteline LED Raptor 0-10V Dimming Geartray - SR4HELA01T, SR4HELB01T, SR4HESA01T SR4HFLA01T, SR4HFLB01T, SR4HFSA01T

**PLEASE READ THESE INSTALLATION INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR MAINTAINING THIS EQUIPMENT. THE PRODUCT IS DESIGNED FOR INSTALLATION AND MAINTENANCE IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS (AS3000) AND LOCAL REGULATIONS (WHERE APPLICABLE), BY AN AUTHORISED AND LICENCED ELECTRICIAN.** THE INSTALLATION INSTRUCTIONS WERE CORRECT AT THE TIME OF PRINT. TO REFLECT CHANGES IN TECHNOLOGY AND AUSTRALIAN STANDARDS; GERARD LIGHTING RESERVES THE RIGHT TO AMEND THE INSTRUCTIONS WITHOUT NOTICE. UPDATED GUIDELINES CAN BE FOUND ON THE RELEVANT BRAND WEB SITE.

**IMPORTANT** - THE PRODUCT MUST BE MAINTAINED AND OPERATED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, FAILURE TO DO SO MAY DAMAGE THE PRODUCT AND SERVICES. IT IS STRONGLY RECOMMENDED THAT THIS IMPORTANT NOTE BE COMMUNICATED TO THE OWNER AND OR OPERATOR OF THE INSTALLATION AT THE TIME OF SITE COMMISSIONING. GOOD PRACTICE DOES NOT RECOMMEND THE 24/7 USE OF PRODUCTS WITHOUT THE APPLICATION OF SUITABLE SWITCH CYCLE INTERVALS. FURTHERMORE, WITH THE OMISSION OF NOMINATED SURVIVAL CURVES AND OR RECOMMENDED OPERATING HOURS, PRODUCT DESIGN EXPECTATIONS PROVIDE FOR A CONTINUAL DAILY USAGE OF 6 HOURS FOR RESIDENTIAL APPLICATIONS AND A CONTINUAL DAILY USAGE OF 12 HOURS FOR COMMERCIAL AND INDUSTRIAL APPLICATIONS. ALL PRODUCTS MUST BE THOROUGHLY CLEANED ON A REGULAR BASIS AT INTERVALS THAT REFLECT IN THE INSTALLATION ENVIRONMENT, ENSURING THE OPTICAL PERFORMANCE, TOGETHER WITH THE ELECTRICAL, MECHANICAL AND STRUCTURAL INTEGRITY AS DESIGNED, IS MAINTAINED THROUGHOUT THE SERVICE LIFE OF THE PRODUCT.



### 1. PRODUCT SPECIFICATION:

	<b>240V System</b>	<b>415V System</b>
Product brand	- Sylvania	- Sylvania
Product Weight - LA/LB Series	- 9.43Kgs	- 9.46Kgs
Product Weight - SA Series	- 8.67Kgs	- 8.7Kgs
Type of Protection	- Class I	- Class I
IP Rating - for interior products, the IP rating nominated is "from below the ceiling" unless specifically nominated.	- IP20	- IP20
Nominal design Voltage	- 240V	- 415V
Circuit wattage	- 1260W	- 1260W
Line current	- 5.5A,	- 3.2A
Power factor	- 0.9	- 0.9
Nominal Freq. (Hz)	- 50 Hz	- 50Hz
Surge Protection Device	- 10kV (A-N)	- 10kV (A-A)
Rated Minimum / Maximum Ambient Temperature	- 0°C / 40°C	- 0°C / 40°C
Suitable for direct mounting on flammable surfaces	- NO	- NO
Dimmable	- YES 0-10V Analogue	- YES 0-10V Analogue
Installation orientation	- Vertical mount only	- Vertical mount only
Designed application	- Internal ventilated area	- Internal ventilated area

**2. APPROVALS:** The RCM marking of this product applies to AS/NZS CISPR15 (EMC) "Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment". This product is designed to conform to AS/NZS60598 "Luminaires, general requirements and tests".



**3. STORAGE:** Prior to installation products are to be stored in cool and dry conditions.

**4. APPLICATION:** The installation application and orientation of the product is designed in accordance with the nominated product IP rating, class designation and these installation instructions. Installation environments and operating conditions beyond these instructions are not recommended.

**5. INSTALLATION / GENERAL:** Installation of the product is to be completed by an authorized and licensed electrician, in accordance with these instructions, relevant Australia standards and local regulations (where applicable). Termination of product wiring, together with the installation of the product must be in a manner and orientation that maintains the integrity of the designated IP rating of the product For electronic control equipment (when supplied) DO NOT MEGGER between A and N.

**6. INSTALLATION / SPECIAL CONDITIONS** (relevant only for products approved for such an installation):

- (a) products installed in high wind environments** must have suitable installation / fastening methods applied to ensure the product's mounting points are not damaged through, corrosion, constant vibration and or movement. Exterior products are designed with precise vertical aiming limits, which should not be exceeded. Any vertical floodlight aiming requirements should be specifically validated in writing with the relevant brand before consideration.
- (b) products installed in corrosive or salt laden environments** require special consideration and such; specific product selection, inclusive of suitable fastening methods and extensive ongoing maintenance of products installed in these environments require professional advice. It is essential that all aspects of the product selection, material specification and maintenance are specifically designed for such use and a cleaning program be adopted that maintains the design integrity of the product.
- (c) interior highbay products** must be vertically suspended. The method of suspension (chain etc) must be able to support at least 5 times the total weight of the fitting. Do not install where air movement will cause the fitting to swing about, causing wear and tear of attachment points. Luminaires should be installed where access for maintenance is practical and allows for maintenance to be completed in accordance with the manufacturer's recommendations.
- (d) interior (downlight) products** must be installed to ensure the lamp unit or the driver (if supplied) are not covered with any combustible materials or insulation; minimum spacings nominated for these materials are mandatory. Unless otherwise specified, minimum clearances are in accordance with AS3000 requirements. The product is not designed for installation environments which restrict conventional airflow movements eg: enclosed boxes or concrete profiles. For dimming purposes please see the relevant product brand web site for the dimming compatibility chart. When mounting multiple fixtures to conductive structures, it is recommended that the structure is earthed. The mounting facilities provided for the transformer/driver (if any), need only be utilized if in the application of the product is required by AS3000. IP ratings stated (if any) are from below the ceiling unless stated otherwise and the installation of the product must be in a manner that maintains the integrity of the relevant IP rating.

**7. MAINTENANCE:**

- (a)** The supply must be isolated before opening or accessing the luminaire. Product maintenance is IMPORTANT and is critical to the products designed performance. The product is to be maintained in accordance with the manufacturer's instructions. For the latest product maintenance guides please go to relevant brand web site. Gerard Lighting is not responsible for any product not maintained in accordance with the recommended procedure or intervals. **(b) lamps (where provided):** The product is designed with the supplied (LEDs) / LAMP/s and it is strongly recommended that any LAMP / (LEDs) changes (if any) be made in accordance with the type, colour and brand supplied. For recommended LAMP / LED maintenance or operating guides (inclusive of recommended product switch cycles and mandatory run-in procedures for HID and Fluorescent lamps when used with dimming circuits), Gerard Lighting recommends the application of the lamp manufacturer's operating guidelines, which can be found on manufacturer's website. Gerard Lighting is not responsible for the product performance of alternative lamp/s used. As a member of FluroCycle, we encourage recycling of lamps and components. **(c) battery (where provided):** The battery is designed with a rated average battery design life of 25,000 hours in standby mode. The battery is supported with a standard 12 month warranty; conditional of the product being maintained and operated in accordance with the manufacturer's guidelines and tested in accordance with AS/NZS2293. For guidelines see product installation instructions or visit the relevant brand web site. **(d) for products supplied with glass visors or covers,** do not operate the product with a damaged visor or cover; it is recommended the product be turned off, area surrounding the product vacated and the damaged glass replaced by a professional installer immediately.

**8. WARRANTY INSTRUCTIONS:** For the purpose of warranty claims (if any) the following instructions apply:

- Warranty components** - THE PRODUCT, (identified as the control gear only). **Warranty period** - The above components are provided with a warranty of FIVE (5) year/s or 20,000hrs of operation (which ever arrives first) against manufacturing defects or failure to perform to specifications for products installed by an authorised installer in accordance with the manufacturer's installation instructions and which have not been subject to incorrect operation or maintenance, unauthorised modification or damage arising from any intervening cause. **Warranty reference** - The warranty reference date commences from the date of purchase. **Warranty point of contact** - Gerard Lighting Pty Ltd, 96 Gow Street Padstow NSW 2211, phone T 02 9794 9300 contact - Gerard Lighting After Sales Support.

**Warranty claim procedure** - For the purpose of making a claim the customer must:

- Contact the "point of contact" above and upon provision of proof of purchase the customer will receive a goods return advice (GRA) number.
  - At the customer's expense, collect and return the goods to the "point of contact" with the issued GRA number.
  - Upon receipt of the goods, Gerard Lighting will review the claim and if found to be accepted, Gerard Lighting will return a replacement product to the customer to install at the customer's expense. Alternatively if the claim is rejected, the customer may request the return of the goods at their expense.
- Consumer Contracts** - The benefits to the customer given by the Gerard Lighting warranty are in addition to other rights and remedies of the customer if the goods are the subject of a Consumer Contract under the Australian Consumer Law. In that event the following statement is required to be brought to the Consumer's attention:- *Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.* **Limitation of Liability** - if the goods are not purchased by the customer under a Consumer Contract within the Australian Consumer Law then but not otherwise;- (a) the Company is not liable in tort for any loss or damage suffered by the customer or by any third party; and (b) in no circumstances is Gerard Lighting liable to the customer or to any third party for any loss of profits, loss of anticipated savings, economic loss or interruption of business or for any indirect or consequential loss (Consequential Loss). **Terms of Sale** - these Warranty provisions are in substitution for any inconsistent provisions in the Gerard Lighting Terms and Conditions of Sale in so far as they apply to the Warranty components.

# Raptor Inrush Current

**240V Supply: Inrush Current 123A @ 1290us**

**Earth Leakage Current - 2.8mA per unit**

Breaker Recommendations (240V)

1 Raptor	16A MCB D TYPE
2 Raptor	20A MCB D TYPE
3 Raptor	25A MCB D TYPE
4 Raptor	32A MCB D TYPE
5 Raptor	40A MCB D TYPE

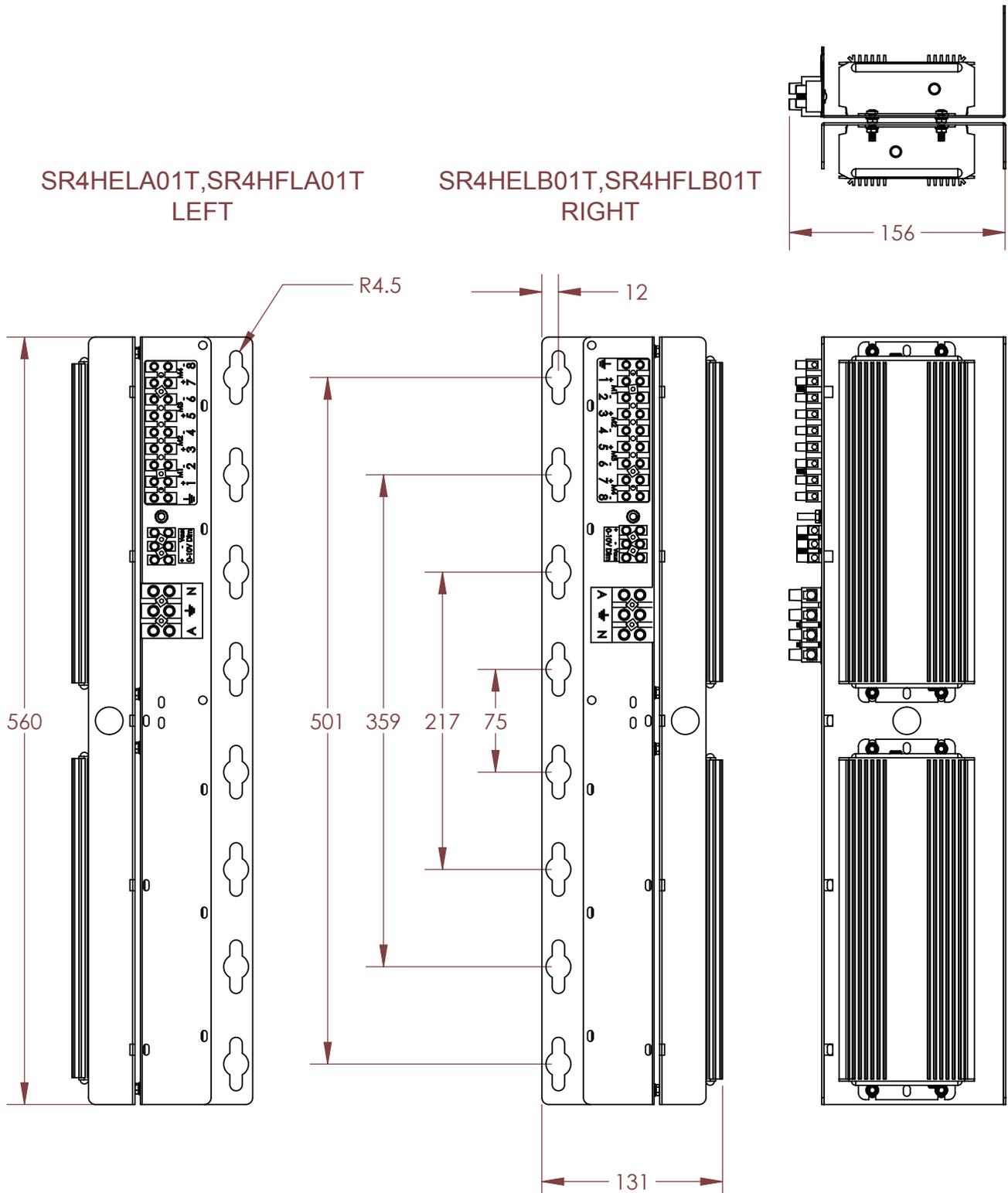
**415V Supply: Inrush Current 173.6A @ 865us**

**Earth Leakage Current - 4mA per unit**

Breaker Recommendations (415V)

1 Raptor	16A MCB D TYPE
2 Raptor	20A MCB D TYPE
3 Raptor	20A MCB D TYPE
4 Raptor	25A MCB D TYPE
5 Raptor	40A MCB D TYPE

# LA/LB Geartray Series Dimensions

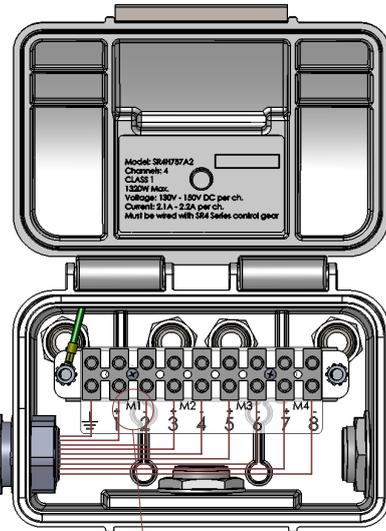


Note: Vertical mount only as per above orientation

## LA/LB SERIES GEARTRAY 240V WIRING INSTRUCTIONS

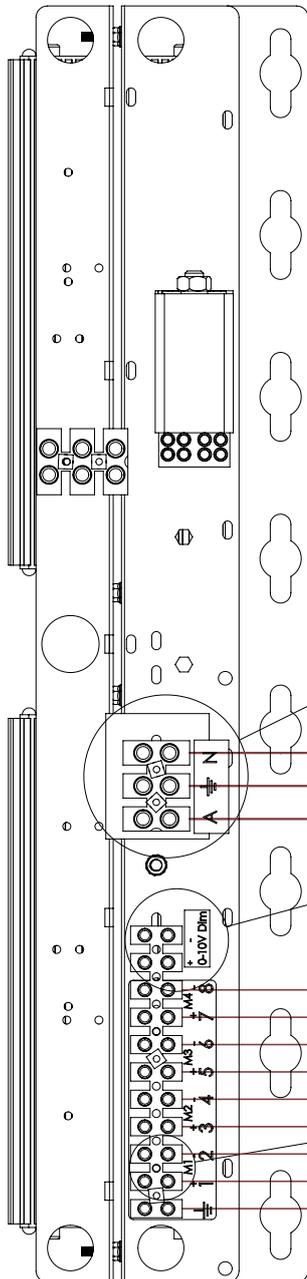
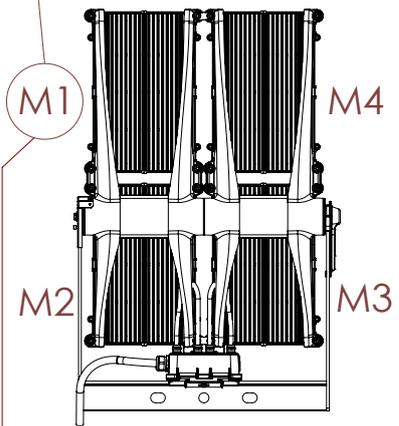
SR4HELA01T, SR4HELB01T

Must be wired in accordance  
with the Australian Standard Wiring Rules

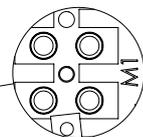
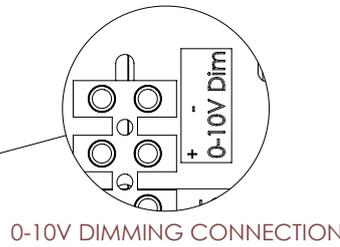
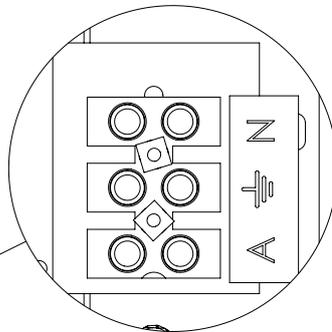


Recommend 9 core cable - 8 core + earth

Cable size	Length
1.5mm <sup>2</sup>	45m Max.
2.5mm <sup>2</sup>	90m Max.



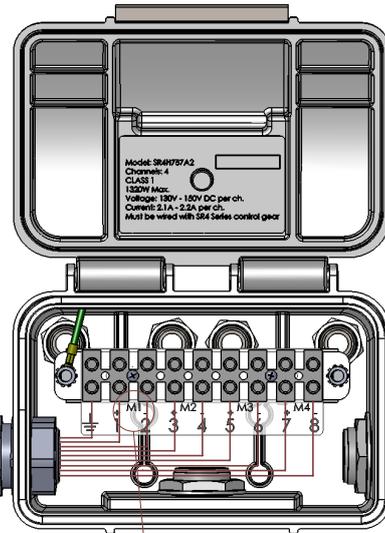
AC MAINS  
CONNECTION  
A E N



## LA/LB SERIES GEARTRAY 415V WIRING INSTRUCTIONS

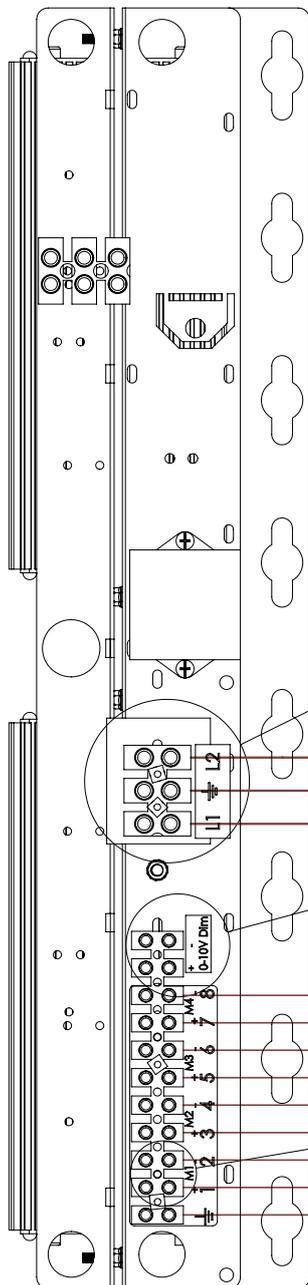
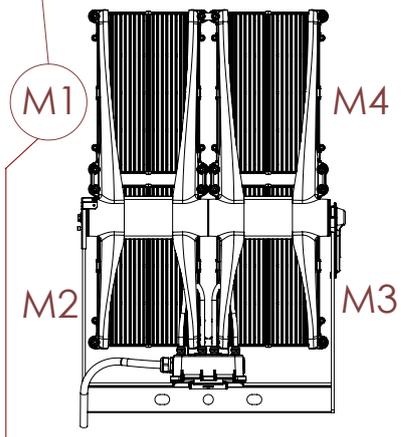
SR4HFLA01T, SR4HFLB01T

Must be wired in accordance  
with the Australian Standard Wiring Rules

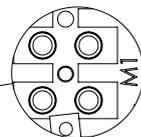
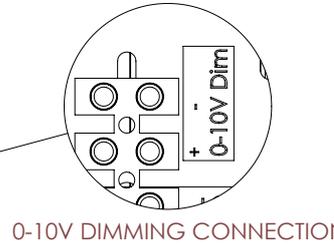
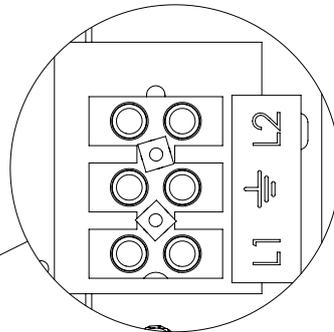


Recommend 9 core cable - 8 core + earth

Cable size	Length
1.5mm <sup>2</sup>	45m Max.
2.5mm <sup>2</sup>	90m Max.

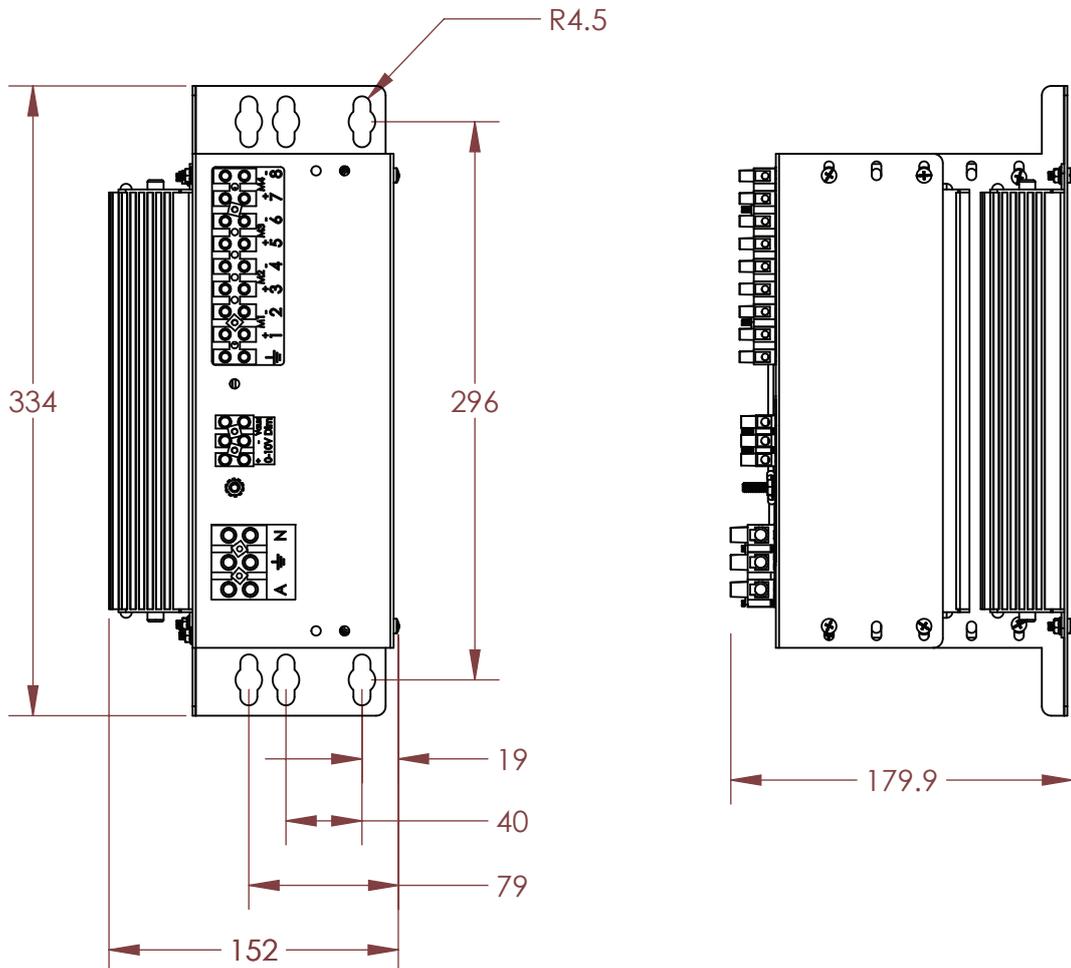
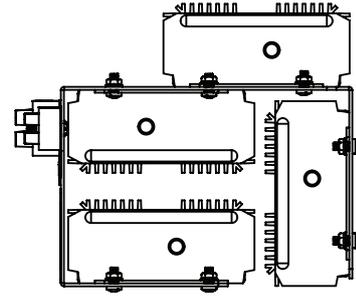


AC MAINS  
CONNECTION  
L1 E L2



# SA Geartray Series Dimensions

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SR4HESA01T

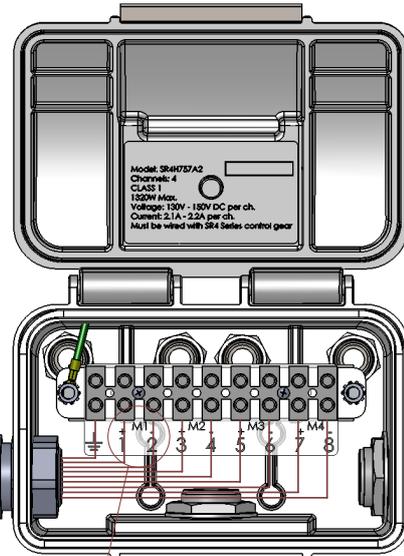


Note: Vertical mount only as per above orientation

## SA SERIES GEARTRAY 240V WIRING INSTRUCTION

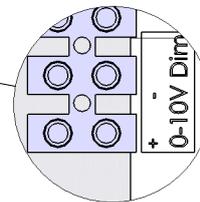
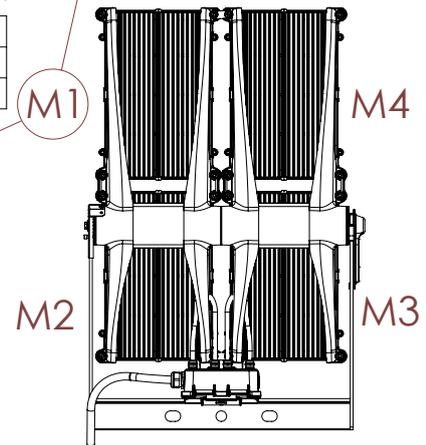
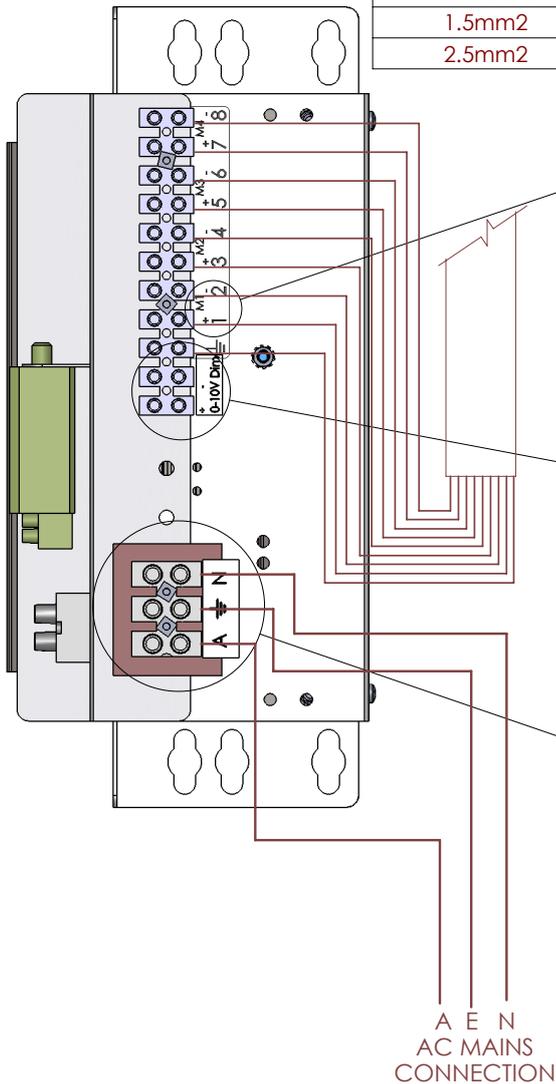
### SR4HESA01T

Must be wired in accordance  
with the Australian Standard Wiring Rules

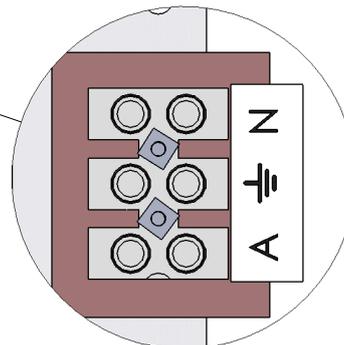


Recommend 9 core cable - 8 core + earth

Cable size	Length
1.5mm <sup>2</sup>	45m Max.
2.5mm <sup>2</sup>	90m Max.



0-10V DIMMING CONNECTION

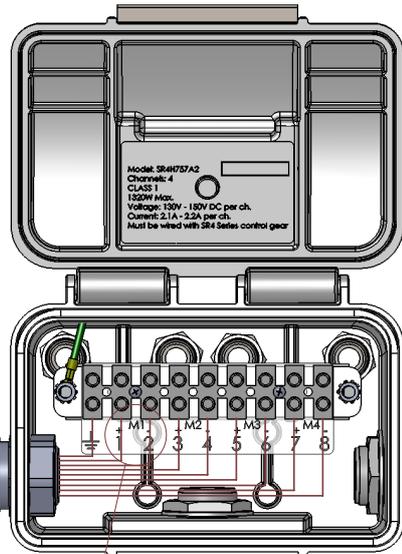


A E N  
AC MAINS  
CONNECTION

## SA SERIES GEARTRAY 415V WIRING INSTRUCTION

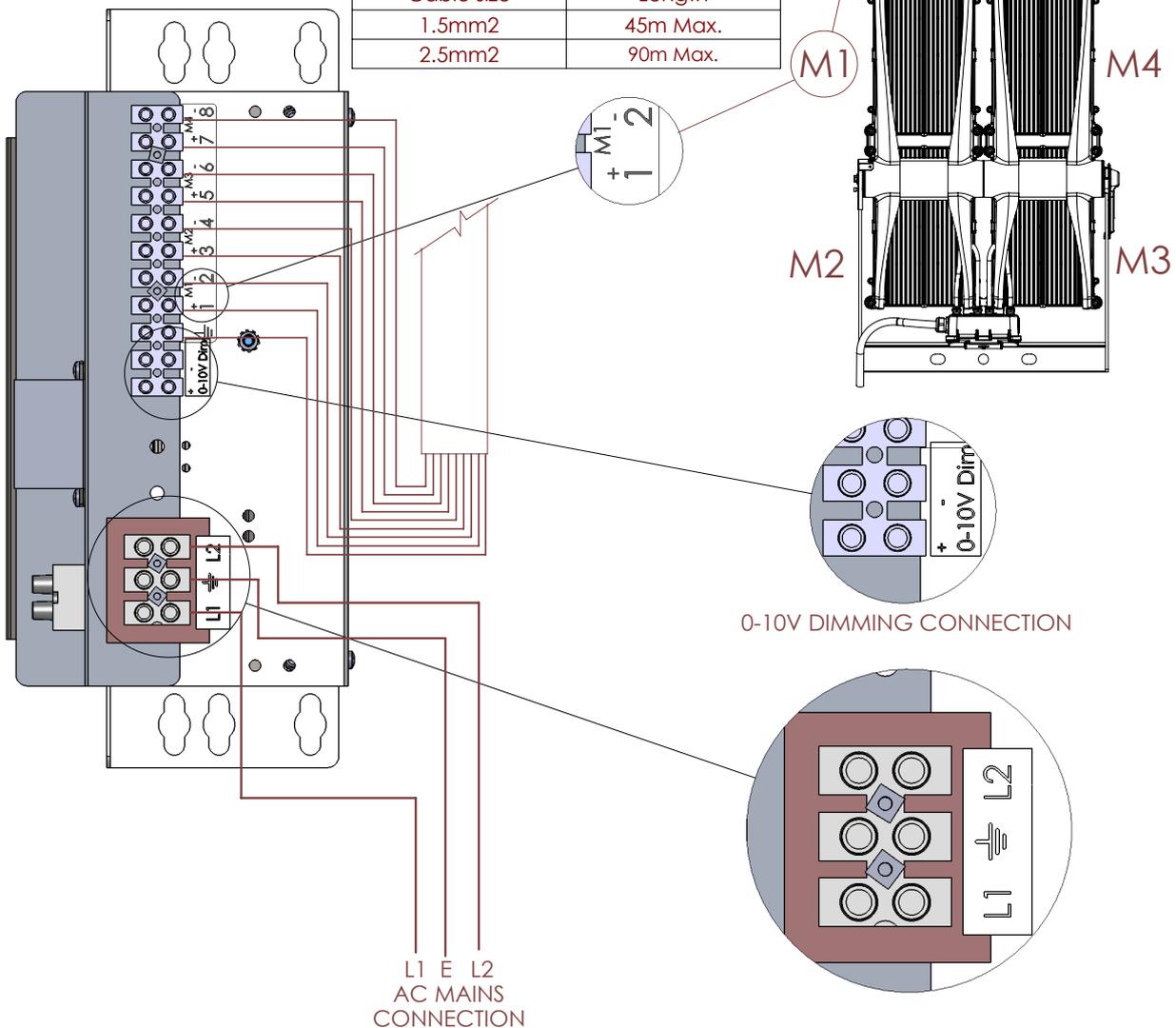
### SR4HFSA01T

Must be wired in accordance  
with the Australian Standard Wiring Rules



Recommend 9 core cable - 8 core + earth

Cable size	Length
1.5mm <sup>2</sup>	45m Max.
2.5mm <sup>2</sup>	90m Max.



**SYLVANIA**

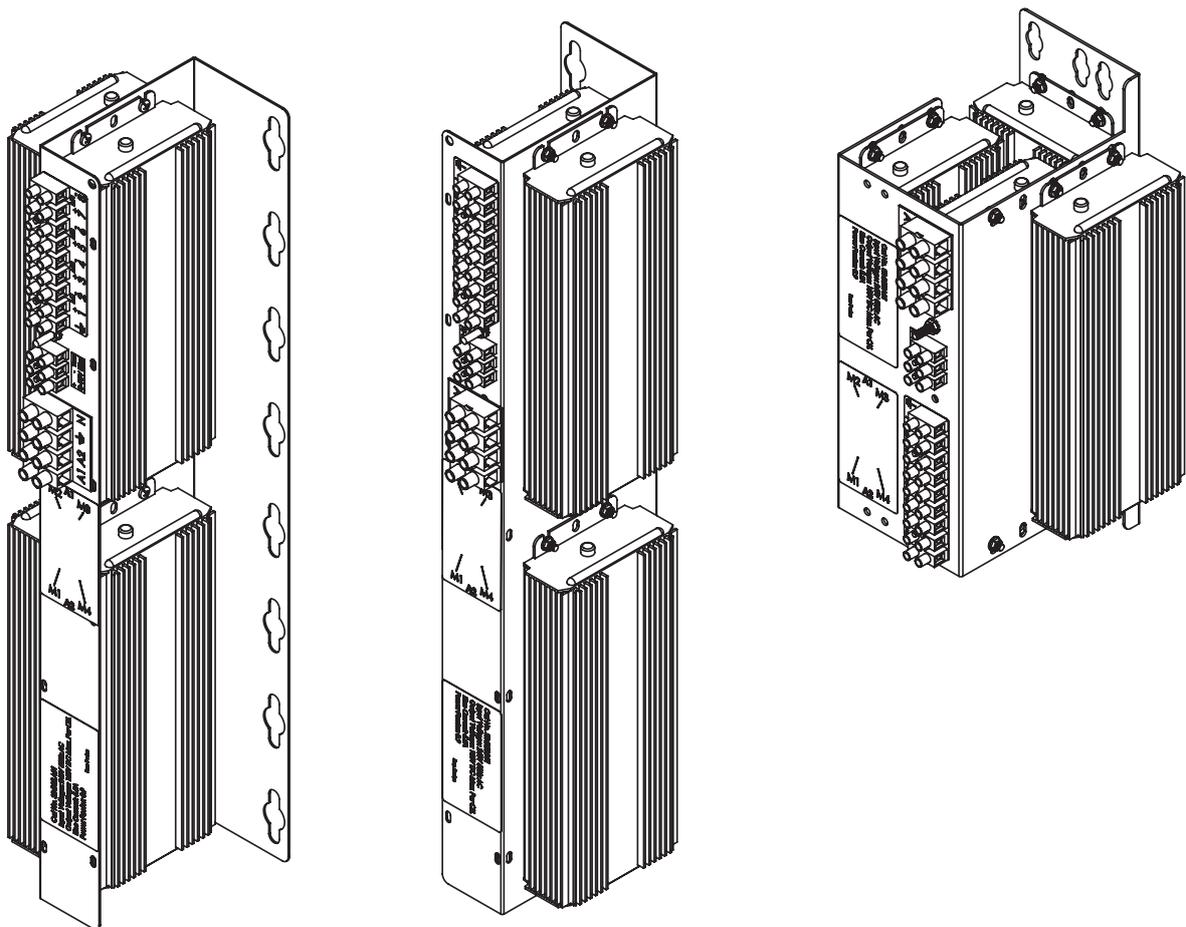
**SYLVANIA**  
***Briteline™ LED***  
***Raptor***

**SYLVANIA**

# ***Briteline™ LED Raptor***

## **4 MODULE SYSTEM**

### **GEARTRAY INSTRUCTIONS DALI Dimming**



Installation Sheet: 99034296

## INSTALLATION / WARRANTY INSTRUCTIONS

<b>PRODUCT BRAND</b>	- Sylvania
<b>PRODUCT NAME / CODES</b>	- Sylvania Briteline LED Raptor DALI Dimming Geartray – SR4HALA01T, SR4HALB01T, SR4HASA01T SR4HGLA01T, SR4HGLB01T, SR4HGSA01T

**PLEASE READ THESE INSTALLATION INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR MAINTAINING THIS EQUIPMENT. THE PRODUCT IS DESIGNED FOR INSTALLATION AND MAINTENANCE IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS (AS3000) AND LOCAL REGULATIONS (WHERE APPLICABLE), BY AN AUTHORISED AND LICENCED ELECTRICIAN.** THE INSTALLATION INSTRUCTIONS WERE CORRECT AT THE TIME OF PRINT. TO REFLECT CHANGES IN TECHNOLOGY AND AUSTRALIAN STANDARDS; GERARD LIGHTING RESERVES THE RIGHT TO AMEND THE INSTRUCTIONS WITHOUT NOTICE. UPDATED GUIDELINES CAN BE FOUND ON THE RELEVANT BRAND WEB SITE. **IMPORTANT** - THE PRODUCT MUST BE MAINTAINED AND OPERATED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, FAILURE TO DO SO MAY DAMAGE THE PRODUCT AND SERVICES. IT IS STRONGLY RECOMMENDED THAT THIS IMPORTANT NOTE BE COMMUNICATED TO THE OWNER AND OR OPERATOR OF THE INSTALLATION AT THE TIME OF SITE COMMISSIONING. GOOD PRACTICE DOES NOT RECOMMEND THE 24/7 USE OF PRODUCTS WITHOUT THE APPLICATION OF SUITABLE SWITCH CYCLE INTERVALS. FURTHERMORE, WITH THE OMISSION OF NOMINATED SURVIVAL CURVES AND OR RECOMMENDED OPERATING HOURS, PRODUCT DESIGN EXPECTATIONS PROVIDE FOR A CONTINUAL DAILY USAGE OF 6 HOURS FOR RESIDENTIAL APPLICATIONS AND A CONTINUAL DAILY USAGE OF 12 HOURS FOR COMMERCIAL AND INDUSTRIAL APPLICATIONS. ALL PRODUCTS MUST BE THOROUGHLY CLEANED ON A REGULAR BASIS AT INTERVALS THAT REFLECT IN THE INSTALLATION ENVIRONMENT, ENSURING THE OPTICAL PERFORMANCE, TOGETHER WITH THE ELECTRICAL, MECHANICAL AND STRUCTURAL INTEGRITY AS DESIGNED, IS MAINTAINED THROUGHOUT THE SERVICE LIFE OF THE PRODUCT.



### 1. PRODUCT SPECIFICATION:

	<b>240V System</b>	<b>415V System</b>
Product brand	- Sylvania	- Sylvania
Product Weight – LA/LB Series	- 9.43Kgs	- 9.46Kgs
Product Weight – SA Series	- 8.67Kgs	- 8.7Kgs
Type of Protection	- Class I	- Class I
IP Rating - for interior products, the IP rating nominated is "from below the ceiling" unless specifically nominated.	- IP20	- IP20
Nominal design Voltage	- 240V	- 415V
Circuit wattage	- 1260W	- 1260W
Line current	- 5.5A,	- 3.2A
Power factor	- 0.9	- 0.9
Nominal Freq. (Hz)	- 50 Hz	- 50Hz
Surge Protection Device	- 10kV (A-N)	- 10kV (A-A)
Rated Minimum / Maximum Ambient Temperature	- 0°C / 40°C	- 0°C / 40°C
Suitable for direct mounting on flammable surfaces	- NO	- NO
Dimmable	- YES DALI	- YES DALI (no feedback)
Installation orientation	- Vertical mount only	- Vertical mount only
Designed application	- Internal ventilated area	- Internal ventilated area

**2. APPROVALS:** The RCM marking of this product applies to AS/NZS CISPR15 (EMC) "Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment". This product is designed to conform to AS/NZS60598 "Luminaires, general requirements and tests".



**3. STORAGE:** Prior to installation products are to be stored in cool and dry conditions.

**4. APPLICATION:** The installation application and orientation of the product is designed in accordance with the nominated product IP rating, class designation and these installation instructions. Installation environments and operating conditions beyond these instructions are not recommended.

**5. INSTALLATION / GENERAL:** Installation of the product is to be completed by an authorized and licensed electrician, in accordance with these instructions, relevant Australia standards and local regulations (where applicable). Termination of product wiring, together with the installation of the product must be in a manner and orientation that maintains the integrity of the designated IP rating of the product For electronic control equipment (when supplied) DO NOT MEGGER between A and N.

**6. INSTALLATION / SPECIAL CONDITIONS** (relevant only for products approved for such an installation):

**(a) products installed in high wind environments** must have suitable installation / fastening methods applied to ensure the product's mounting points are not damaged through, corrosion, constant vibration and or movement. Exterior products are designed with precise vertical aiming limits, which should not be exceeded. Any vertical floodlight aiming requirements should be specifically validated in writing with the relevant brand before consideration.

**(b) products installed in corrosive or salt laden environments** require special consideration and such; specific product selection, inclusive of suitable fastening methods and extensive ongoing maintenance of products installed in these environments require professional advice. It is essential that all aspects of the product selection, material specification and maintenance are specifically designed for such use and a cleaning program be adopted that maintains the design integrity of the product.

**(c) interior highbay products** must be vertically suspended. The method of suspension (chain etc) must be able to support at least 5 times the total weight of the fitting. Do not install where air movement will cause the fitting to swing about, causing wear and tear of attachment points. Luminaires should be installed where access for maintenance is practical and allows for maintenance to be completed in accordance with the manufacturer's recommendations.

**(d) interior (downlight) products** must be installed to ensure the lamp unit or the driver (if supplied) are not covered with any combustible materials or insulation; minimum spacings nominated for these materials are mandatory. Unless otherwise specified, minimum clearances are in accordance with AS3000 requirements. The product is not designed for installation environments which restrict conventional airflow movements eg: enclosed boxes or concrete profiles. For dimming purposes please see the relevant product brand web site for the dimming compatibility chart. When mounting multiple fixtures to conductive structures, it is recommended that the structure is earthed. The mounting facilities provided for the transformer/driver (if any), need only be utilized if in the application of the product is required by AS3000. IP ratings stated (if any) are from below the ceiling unless stated otherwise and the installation of the product must be in a manner that maintains the integrity of the relevant IP rating.

**7. MAINTENANCE:**

**(a)** The supply must be isolated before opening or accessing the luminaire. Product maintenance is IMPORTANT and is critical to the products designed performance. The product is to be maintained in accordance with the manufacturer's instructions. For the latest product maintenance guides please go to relevant brand web site. Gerard Lighting is not responsible for any product not maintained in accordance with the recommended procedure or intervals. **(b) lamps (where provided):** The product is designed with the supplied (LEDs) / LAMP/s and it is strongly recommended that any LAMP / (LEDs) changes (if any) be made in accordance with the type, colour and brand supplied. For recommended LAMP / LED maintenance or operating guides (inclusive of recommended product switch cycles and mandatory run-in procedures for HID and Fluorescent lamps when used with dimming circuits), Gerard Lighting recommends the application of the lamp manufacturer's operating guidelines, which can be found on manufacturer's website. Gerard Lighting is not responsible for the product performance of alternative lamp/s used. As a member of FluroCycle, we encourage recycling of lamps and components. **(c) battery (where provided):** The battery is designed with a rated average battery design life of 25,000 hours in standby mode. The battery is supported with a standard 12 month warranty; conditional of the product being maintained and operated in accordance with the manufacturer's guidelines and tested in accordance with AS/NZS2293. For guidelines see product installation instructions or visit the relevant brand web site.

**(d) for products supplied with glass visors or covers,** do not operate the product with a damaged visor or cover; it is recommended the product be turned off, area surrounding the product vacated and the damaged glass replaced by a professional installer immediately.

**8. WARRANTY INSTRUCTIONS:** For the purpose of warranty claims (if any) the following instructions apply:

**Warranty components** - THE PRODUCT, (identified as the control gear only). **Warranty period** - The above components are provided with a warranty of FIVE (5) year/s or 20,000hrs of operation (which ever arrives first) against manufacturing defects or failure to perform to specifications for products installed by an authorised installer in accordance with the manufacturer's installation instructions and which have not been subject to incorrect operation or maintenance, unauthorised modification or damage arising from any intervening cause. **Warranty reference** - The warranty reference date commences from the date of purchase. **Warranty point of contact** - Gerard Lighting Pty Ltd, 96 Gow Street Padstow NSW 2211, phone T 02 9794 9300 contact - Gerard Lighting After Sales Support.

**Warranty claim procedure** - For the purpose of making a claim the customer must:

1. Contact the "point of contact" above and upon provision of proof of purchase the customer will receive a goods return advice (GRA) number. 2. At the customer's expense, collect and return the goods to the "point of contact" with the issued GRA number. 3. Upon receipt of the goods, Gerard Lighting will review the claim and if found to be accepted, Gerard Lighting will return a replacement product to the customer to install at the customer's expense. Alternatively if the claim is rejected, the customer may request the return of the goods at their expense. **Consumer Contracts** - The benefits to the customer given by the Gerard Lighting warranty are in addition to other rights and remedies of the customer if the goods are the subject of a Consumer Contract under the Australian Consumer Law. In that event the following statement is required to be brought to the Consumer's attention:- *Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.* **Limitation of Liability** - if the goods are not purchased by the customer under a Consumer Contract within the Australian Consumer Law then but not otherwise;- (a) the Company is not liable in tort for any loss or damage suffered by the customer or by any third party; and (b) in no circumstances is Gerard Lighting liable to the customer or to any third party for any loss of profits, loss of anticipated savings, economic loss or interruption of business or for any indirect or consequential loss (Consequential Loss). **Terms of Sale** - these Warranty provisions are in substitution for any inconsistent provisions in the Gerard Lighting Terms and Conditions of Sale in so far as they apply to the Warranty components.

# Raptor Inrush Current

**240V Supply: Inrush Current 123A @ 1290us**

**Earth Leakage Current - 2.8mA per unit**

Breaker Recommendations (240V)

1 Raptor	16A MCB D TYPE
2 Raptor	20A MCB D TYPE
3 Raptor	25A MCB D TYPE
4 Raptor	32A MCB D TYPE
5 Raptor	40A MCB D TYPE

**415V Supply: Inrush Current 173.6A @ 865us**

**Earth Leakage Current - 4mA per unit**

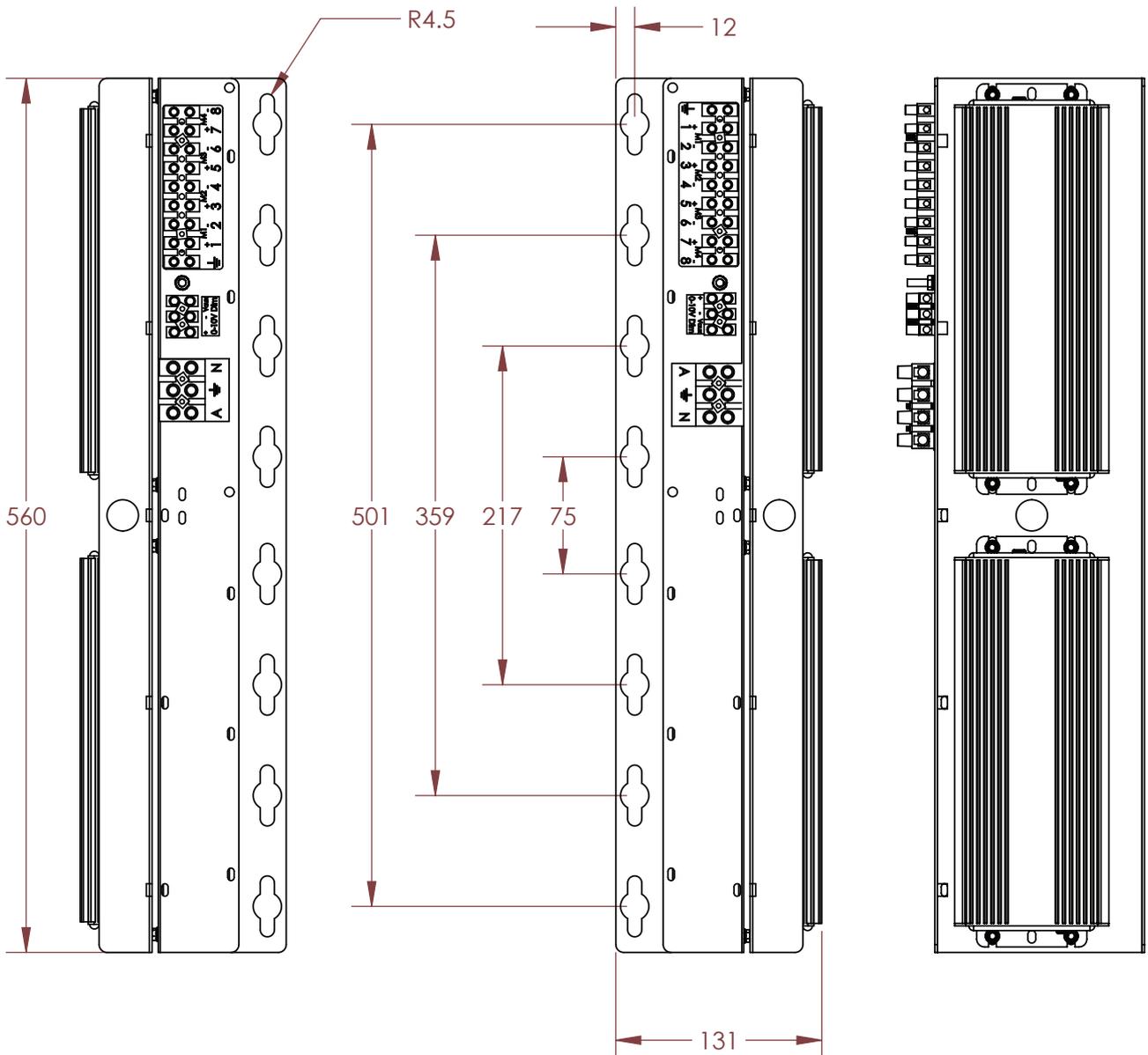
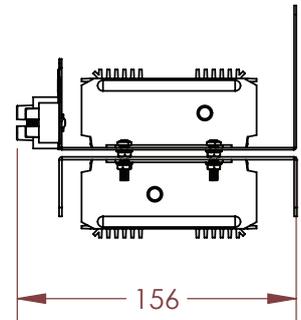
Breaker Recommendations (415V)

1 Raptor	16A MCB D TYPE
2 Raptor	20A MCB D TYPE
3 Raptor	20A MCB D TYPE
4 Raptor	25A MCB D TYPE
5 Raptor	40A MCB D TYPE

# LA/LB Geartray Series Dimensions

SR4HALA01T, SR4HGLA01T  
LEFT

SR4HALB01T, SR4HGLB01T  
RIGHT

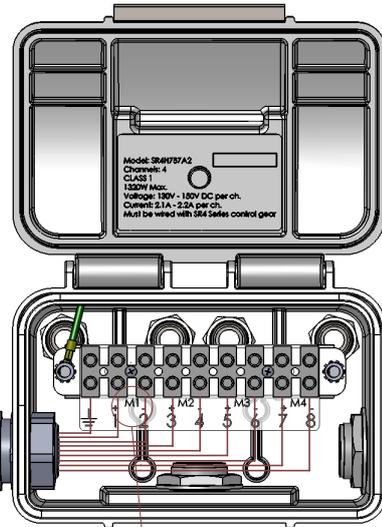


Note: Vertical mount only as per above orientation

## LA/LB SERIES GEARTRAY 240V WIRING INSTRUCTIONS

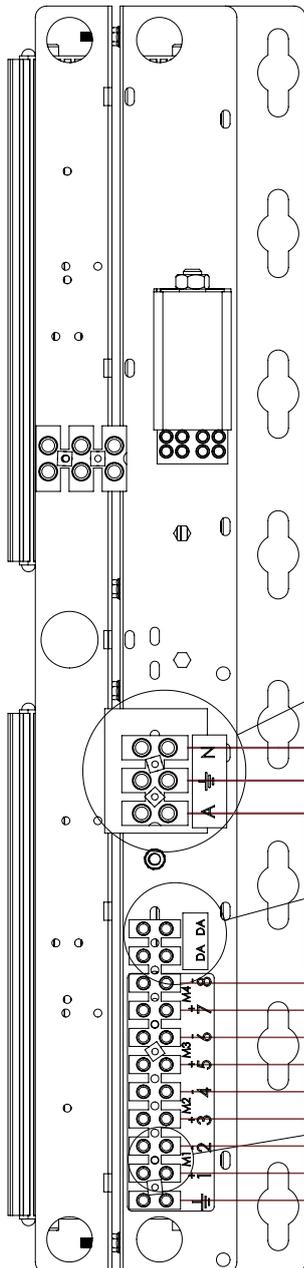
SR4HALA01T, SR4HALB01T

Must be wired in accordance  
with the Australian Standard Wiring Rules

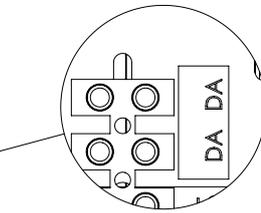
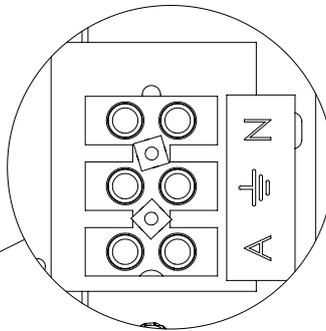


Recommend 9 core cable - 8 core + earth

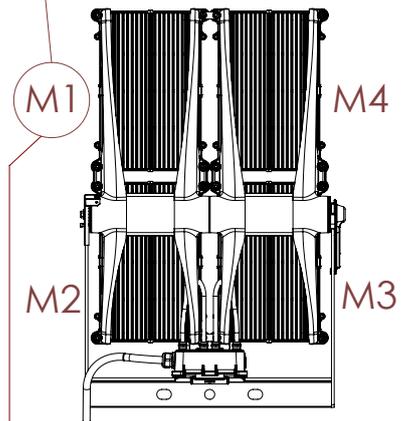
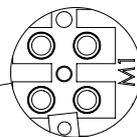
Cable size	Length
1.5mm <sup>2</sup>	45m Max.
2.5mm <sup>2</sup>	90m Max.



AC MAINS  
CONNECTION  
A E N



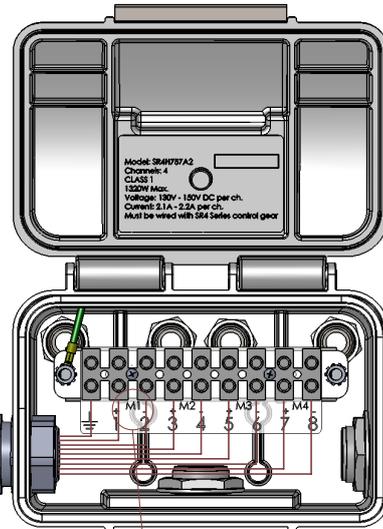
DALI DIMMING CONNECTION



**LA/LB SERIES GEARTRAY 415V  
WIRING INSTRUCTIONS**

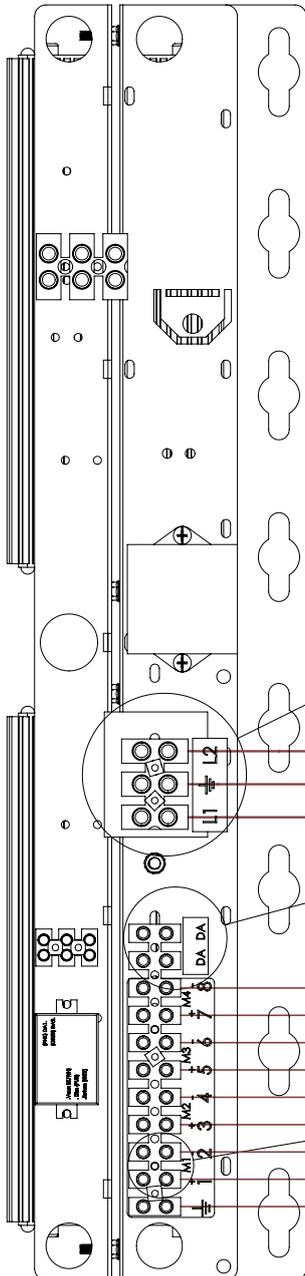
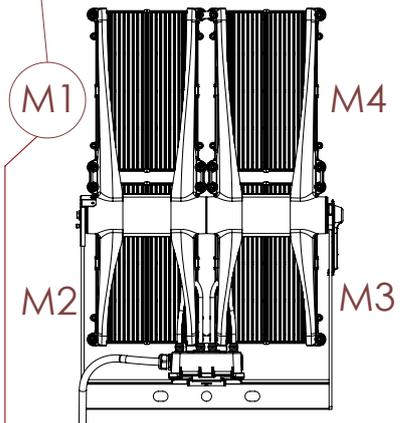
SR4HGLA01T, SR4HGLB01T

Must be wired in accordance  
with the Australian Standard Wiring Rules

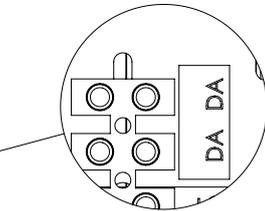
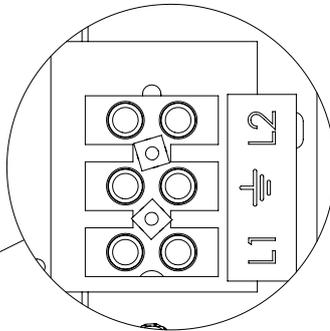


Recommend 9 core cable - 8 core + earth

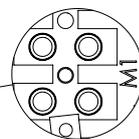
Cable size	Length
1.5mm <sup>2</sup>	45m Max.
2.5mm <sup>2</sup>	90m Max.



AC MAINS  
CONNECTION  
L1 E L2

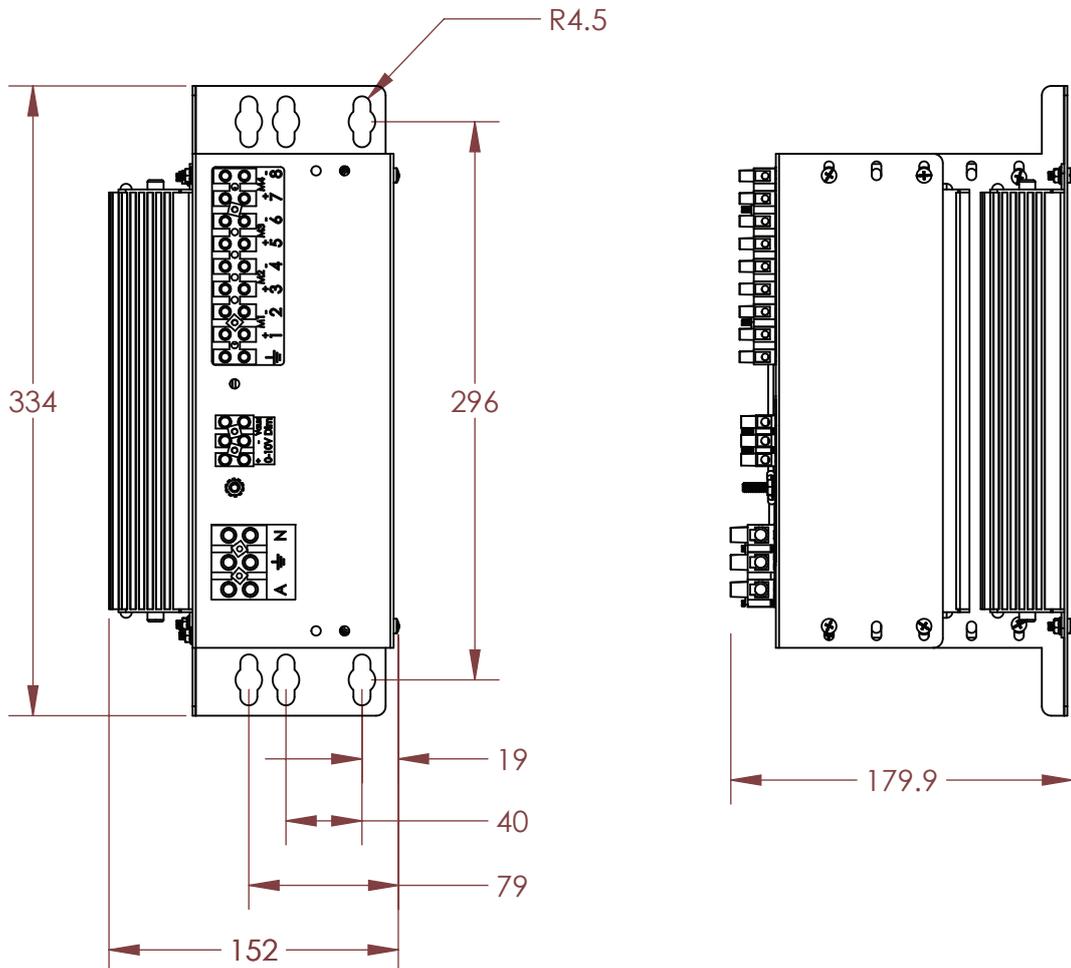
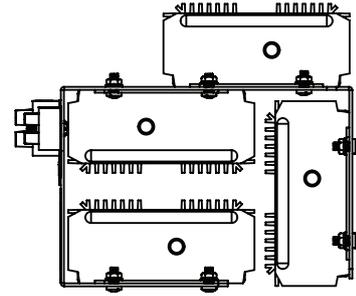


DALI DIMMING CONNECTION



# SA Geartray Series Dimensions

SR4HASA01T  
SR4HGSA01T

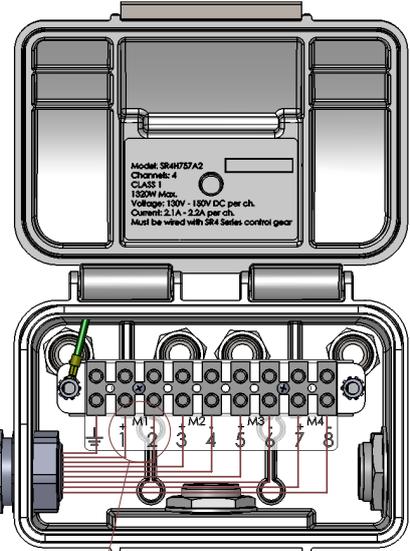


Note: Vertical mount only as per above orientation

## SA SERIES GEARTRAY 240V WIRING INSTRUCTION

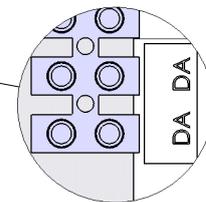
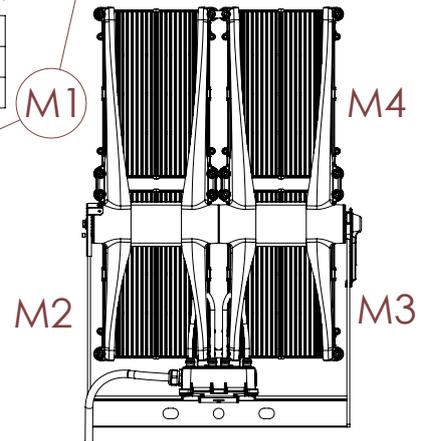
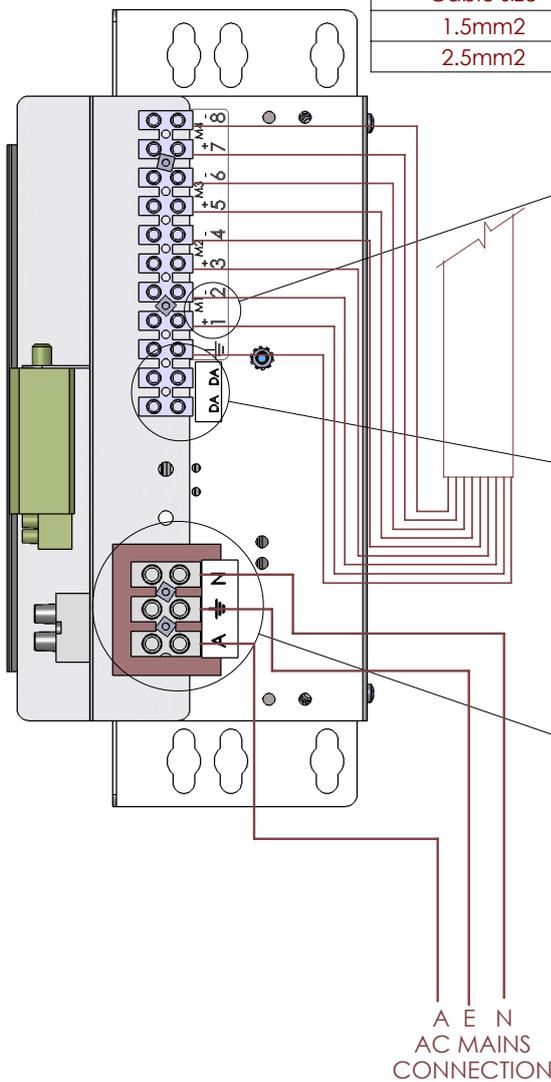
### SR4HASA01T

Must be wired in accordance  
with the Australian Standard Wiring Rules

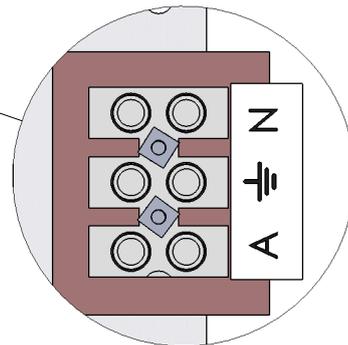


Recommend 9 core cable - 8 core + earth

Cable size	Length
1.5mm <sup>2</sup>	45m Max.
2.5mm <sup>2</sup>	90m Max.



DALI DIMMING CONNECTION

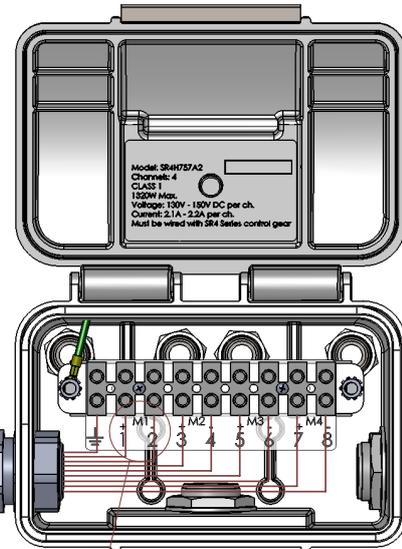


A E N  
AC MAINS  
CONNECTION

## SA SERIES GEARTRAY 415V WIRING INSTRUCTION

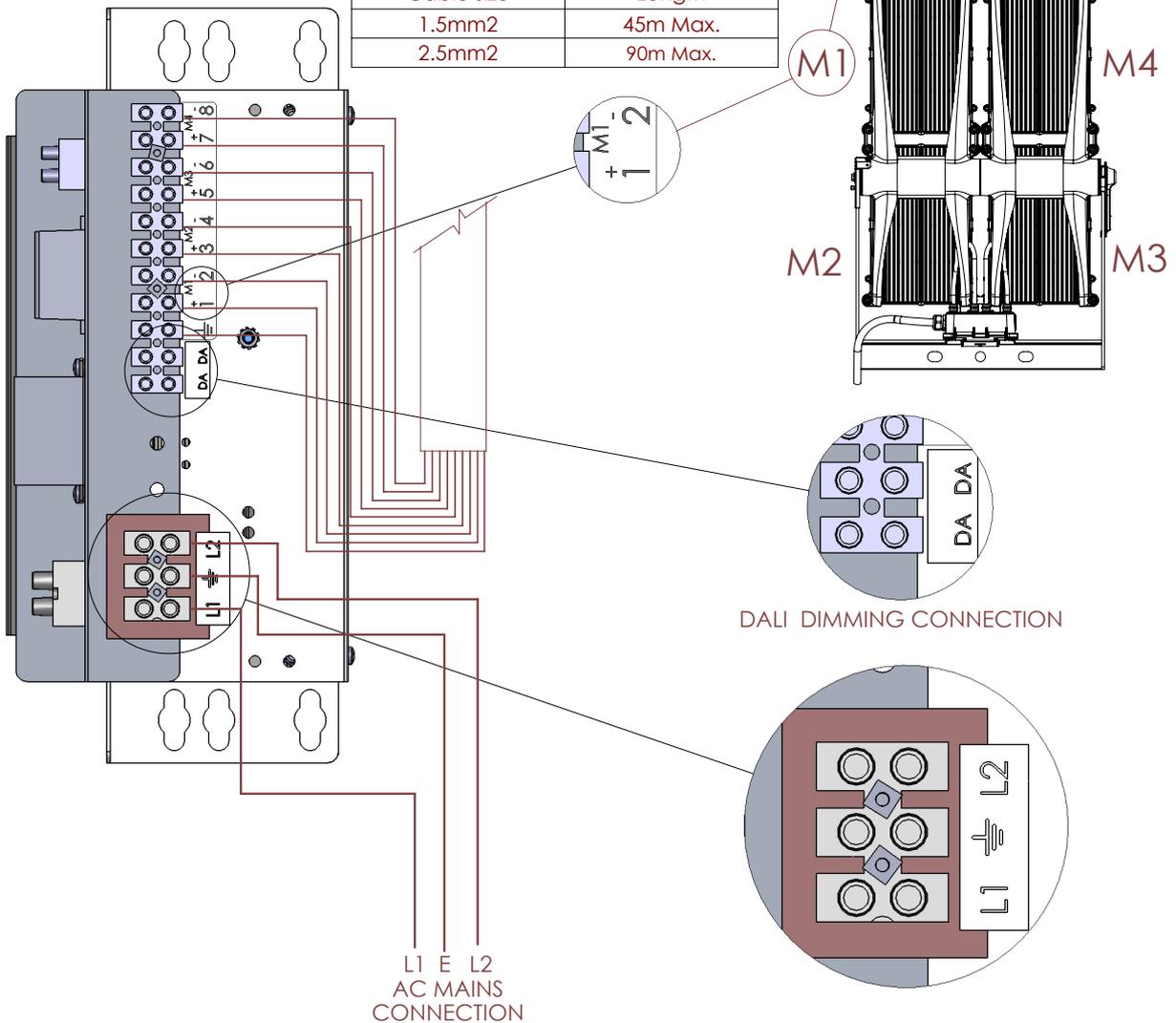
### SR4HGSA01T

Must be wired in accordance  
with the Australian Standard Wiring Rules



Recommend 9 core cable - 8 core + earth

Cable size	Length
1.5mm <sup>2</sup>	45m Max.
2.5mm <sup>2</sup>	90m Max.



**SYLVANIA**

**SYLVANIA**  
***Briteline™ LED***  
***Raptor***

# SYLVANIA

## SYLVANIA EXTREME LED HYBRID CONTROL GEAR

Retrofit and Remote Mount driver

### INSTALLATION INSTRUCTIONS



04/2019\_v17

Gerard Lighting Pty Ltd  
96 - 112 Gow Street, Padstow, NSW 2211  
Tel: 02 9794 9300

[www.gerardlighting.com.au](http://www.gerardlighting.com.au)

**GERARD**  
LIGHTING

**INSTALLATION / WARRANTY INSTRUCTIONS**

issue date: 05/04/2019

**PRODUCT BRAND** - Sylvania  
**PRODUCT NAME / CODES** - Sylvania Briteline LED Raptor Control Gear  
IP65: SR4HFRWP01T, SR4HERWP01T  
IP20: SR4HFRGT01T, SR4HERGT01T



**PLEASE READ THESE INSTALLATION INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR MAINTAINING THIS EQUIPMENT. THE PRODUCT IS DESIGNED FOR INSTALLATION AND MAINTENANCE IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS (AS3000) AND LOCAL REGULATIONS (WHERE APPLICABLE), BY AN AUTHORISED AND LICENCED ELECTRICIAN.** THE INSTALLATION INSTRUCTIONS WERE CORRECT AT THE TIME OF PRINT. TO REFLECT CHANGES IN TECHNOLOGY AND AUSTRALIAN STANDARDS; GERARD LIGHTING RESERVES THE RIGHT TO AMEND THE INSTRUCTIONS WITHOUT NOTICE. UPDATED GUIDELINES CAN BE FOUND ON THE RELEVANT BRAND WEB SITE. **IMPORTANT** - THE PRODUCT MUST BE MAINTAINED AND OPERATED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, FAILURE TO DO SO MAY DAMAGE THE PRODUCT AND SERVICES. IT IS STRONGLY RECOMMENDED THAT THIS IMPORTANT NOTE BE COMMUNICATED TO THE OWNER AND OR OPERATOR OF THE INSTALLATION AT THE TIME OF SITE COMMISSIONING. GOOD PRACTICE DOES NOT RECOMMEND THE 24/7 USE OF PRODUCTS WITHOUT THE APPLICATION OF SUITABLE SWITCH CYCLE INTERVALS. FURTHERMORE, WITH THE OMISSION OF NOMINATED SURVIVAL CURVES AND OR RECOMMENDED OPERATING HOURS, PRODUCT DESIGN EXPECTATIONS PROVIDE FOR A CONTINUAL DAILY USAGE OF 6 HOURS FOR RESIDENTIAL APPLICATIONS AND A CONTINUAL DAILY USAGE OF 12 HOURS FOR COMMERCIAL AND INDUSTRIAL APPLICATIONS. ALL PRODUCTS MUST BE THOROUGHLY CLEANED ON A REGULAR BASIS AT INTERVALS THAT REFLECT IN THE INSTALLATION ENVIRONMENT, ENSURING THE OPTICAL PERFORMANCE, TOGETHER WITH THE ELECTRICAL, MECHANICAL AND STRUCTURAL INTEGRITY AS DESIGNED, IS MAINTAINED THROUGHOUT THE SERVICE LIFE OF THE PRODUCT.

PRODUCT SPECIFICATION:	240V System	415V System
Product Brand	SYLVANIA	SYLVANIA
Product Codes	(IP65) SR4HERWP01T (IP20) SR4HERGT01T	(IP65) SR4HFRWP01T (IP20) SR4HFRGT01T
Product Weight	17.2Kgs (IP20) 19.5Kgs (IP65)	17.2Kgs (IP20) 19.5Kgs (IP65)
Type of Protection	Class I	Class I
IP Rating	(IP65) SR4HERWP01T (IP20) SR4HERGT01T	(IP65) SR4HFRWP01T (IP20) SR4HFRGT01T
Input Voltage Range	198V - 275V	342V - 480V*
Input Power (Typical)	1290W	1290W
Line current	5.5A	3.2A (Balance 3 phase line current 5.54A)
Inrush current	58A Peak @ 240V (Duration 5ms @ 50% of peak)	36A Peak @ 415V (Duration 5ms @ 50% of peak)
Earth leakage current	<0.2mA	<0.2mA
Power factor	0.97	0.97
Nominal Freq. (Hz)	50 Hz	50 Hz
Surge Immunity	10kV (A-N)	10kV (PH-PH)
Rated Minimum / Maximum Ambient Temperature	0°C / 60°C (IP20) 0°C / 50°C (IP65)	0°C / 60°C (IP20) 0°C / 50°C (IP65)
Suitable for direct mounting on flammable surfaces	NO	NO
Dimmable	Optional AC or DC Switch Dim, 50% Power	Optional AC or DC Switch Dim, 50% Power
Installation orientation	Horizontal/Vertical Mount (IP20) Vertical Mount only (IP65)	Horizontal/Vertical Mount (IP20) Vertical Mount only (IP65)
Designed application	Internal Ventilated Area (IP20), Outdoor (IP65)	Internal Ventilated Area (IP20), Outdoor (IP65)

\*For characteristics at voltages above 480V, contact GLG.

**2. APPROVALS:** The RCM marking of this product applies to AS/NZS CISPR15 (EMC) "Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment". This product is designed to conform to AS/NZS60598 "Luminaires, general requirements and tests".



**3. STORAGE:** Prior to installation products are to be stored in cool and dry conditions.

**4. APPLICATION:** The installation application and orientation of the product is designed in accordance with the nominated product IP rating, class designation and these installation instructions. Installation environments and operating conditions beyond these instructions are not recommended.

**5. INSTALLATION / GENERAL:** Installation of the product is to be completed by an authorized and licensed electrician, in accordance with these instructions, relevant Australia standards and local regulations (where applicable). Termination of product wiring, together with the installation of the product must be in a manner and orientation that maintains the integrity of the designated IP rating of the product For electronic control equipment (when supplied) DO NOT MEGGER between A and N.

**6. INSTALLATION / SPECIAL CONDITIONS** (relevant only for products approved for such an installation):

- (a) products installed in high wind environments** must have suitable installation / fastening methods applied to ensure the product's mounting points are not damaged through, corrosion, constant vibration and or movement. Exterior products are designed with precise vertical aiming limits, which should not be exceeded. Any vertical floodlight aiming requirements should be specifically validated in writing with the relevant brand before consideration.
- (b) products installed in corrosive or salt laden environments** require special consideration and such; specific product selection, inclusive of suitable fastening methods and extensive ongoing maintenance of products installed in these environments require professional advice. It is essential that all aspects of the product selection, material specification and maintenance are specifically designed for such use and a cleaning program be adopted that maintains the design integrity of the product.
- (c) interior highbay products** must be vertically suspended. The method of suspension (chain etc) must be able to support at least 5 times the total weight of the fitting. Do not install where air movement will cause the fitting to swing about, causing wear and tear of attachment points. Luminaires should be installed where access for maintenance is practical and allows for maintenance to be completed in accordance with the manufacturer's recommendations.
- (d) interior (downlight) products** must be installed to ensure the lamp unit or the driver (if supplied) are not covered with any combustible materials or insulation; minimum spacings nominated for these materials are mandatory. Unless otherwise specified, minimum clearances are in accordance with AS3000 requirements. The product is not designed for installation environments which restrict conventional airflow movements eg: enclosed boxes or concrete profiles. For dimming purposes please see the relevant product brand web site for the dimming compatibility chart. When mounting multiple fixtures to conductive structures, it is recommended that the structure is earthed. The mounting facilities provided for the transformer/driver (if any), need only be utilized if in the application of the product is required by AS3000. IP ratings stated (if any) are from below the ceiling unless stated otherwise and the installation of the product must be in a manner that maintains the integrity of the relevant IP rating.

**7. MAINTENANCE:**

- (a)** The supply must be isolated before opening or accessing the luminaire. Ensure voltage at output of driver has reduced to zero (discharged). Product maintenance is IMPORTANT and is critical to the products designed performance. The product is to be maintained in accordance with the manufacturer's instructions. For the latest product maintenance guides please go to relevant brand web site. Gerard Lighting is not responsible for any product not maintained in accordance with the recommended procedure or intervals. **(b) lamps (where provided):** The product is designed with the supplied (LEDs) / LAMP/s and it is strongly recommended that any LAMP / (LEDs) changes (if any) be made in accordance with the type, colour and brand supplied. For recommended LAMP / LED maintenance or operating guides (inclusive of recommended product switch cycles and mandatory run-in procedures for HID and Fluorescent lamps when used with dimming circuits), Gerard Lighting recommends the application of the lamp manufacturer's operating guidelines, which can be found on manufacturer's website. Gerard Lighting is not responsible for the product performance of alternative lamp/s used. As a member of FluroCycle, we encourage recycling of lamps and components. **(c) battery (where provided):** The battery is designed with a rated average battery design life of 25,000 hours in standby mode. The battery is supported with a standard 12 month warranty; conditional of the product being maintained and operated in accordance with the manufacturer's guidelines and tested in accordance with AS/NZS2293. For guidelines see product installation instructions or visit the relevant brand web site. **(d) for products supplied with glass visors or covers**, do not operate the product with a damaged visor or cover; it is recommended the product be turned off, area surrounding the product vacated and the damaged glass replaced by a professional installer immediately.

**8. WARRANTY INSTRUCTIONS:** For the purpose of warranty claims (if any) the following instructions apply:

**Warranty components** - THE PRODUCT, (identified as the control gear only). **Warranty period** - The above components are provided with a warranty of FIVE (5) year/s or 20,000hrs of operation (which ever arrives first) against manufacturing defects or failure to perform to specifications for products installed by an authorised installer in accordance with the manufacturer's installation instructions and which have not been subject to incorrect operation or maintenance, unauthorised modification or damage arising from any intervening cause. **Warranty reference** - The warranty reference date commences from the date of purchase. **Warranty point of contact** - Gerard Lighting Pty Ltd, 96 Gow Street Padstow NSW 2211, phone T 02 9794 9300 contact - Gerard Lighting After Sales Support.

**Warranty claim procedure** - For the purpose of making a claim the customer must:

1. Contact the "point of contact" above and upon provision of proof of purchase the customer will receive a goods return advice (GRA) number.
  2. At the customer's expense, collect and return the goods to the "point of contact" with the issued GRA number.
  3. Upon receipt of the goods, Gerard Lighting will review the claim and if found to be accepted, Gerard Lighting will return a replacement product to the customer to install at the customer's expense. Alternatively if the claim is rejected, the customer may request the return of the goods at their expense.
- Consumer Contracts** - The benefits to the customer given by the Gerard Lighting warranty are in addition to other rights and remedies of the customer if the goods are the subject of a Consumer Contract under the Australian Consumer Law. In that event the following statement is required to be brought to the Consumer's attention:- *Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.* **Limitation of Liability** - if the goods are not purchased by the customer under a Consumer Contract within the Australian Consumer Law then but not otherwise;- (a) the Company is not liable in tort for any loss or damage suffered by the customer or by any third party; and (b) in no circumstances is Gerard Lighting liable to the customer or to any third party for any loss of profits, loss of anticipated savings, economic loss or interruption of business or for any indirect or consequential loss (Consequential Loss). **Terms of Sale** - these Warranty provisions are in substitution for any inconsistent provisions in the Gerard Lighting Terms and Conditions of Sale in so far as they apply to the Warranty components.

# Raptor Inrush Current

**Codes: (IP65) SRFHERWPOIT, (IP20) SRFHERGTOIT**

240V (Nominal Mains) I peak = 58A Duration @ 50% of peak 5ms

Earth Leakage Current - 0.2mA per unit

## Breaker Recommendations (240V)

MCB CURRENT RATING	"C" CURVE MAXIMUM NO OF RAPTOR	"D" CURVE MAXIMUM NO OF RAPTOR
16A	1 RAPTOR	2 RAPTOR
20A	2 RAPTOR	2 RAPTOR
25A	2 RAPTOR	3 RAPTOR
32A	3 RAPTOR	4 RAPTOR
40A	4 RAPTOR	5 RAPTOR

**Codes: (IP65) SRFHERWPOIT, (IP20) SRFHERGTOIT**

415V (Nominal Mains) I peak = 36A Duration @ 50% of peak 5ms

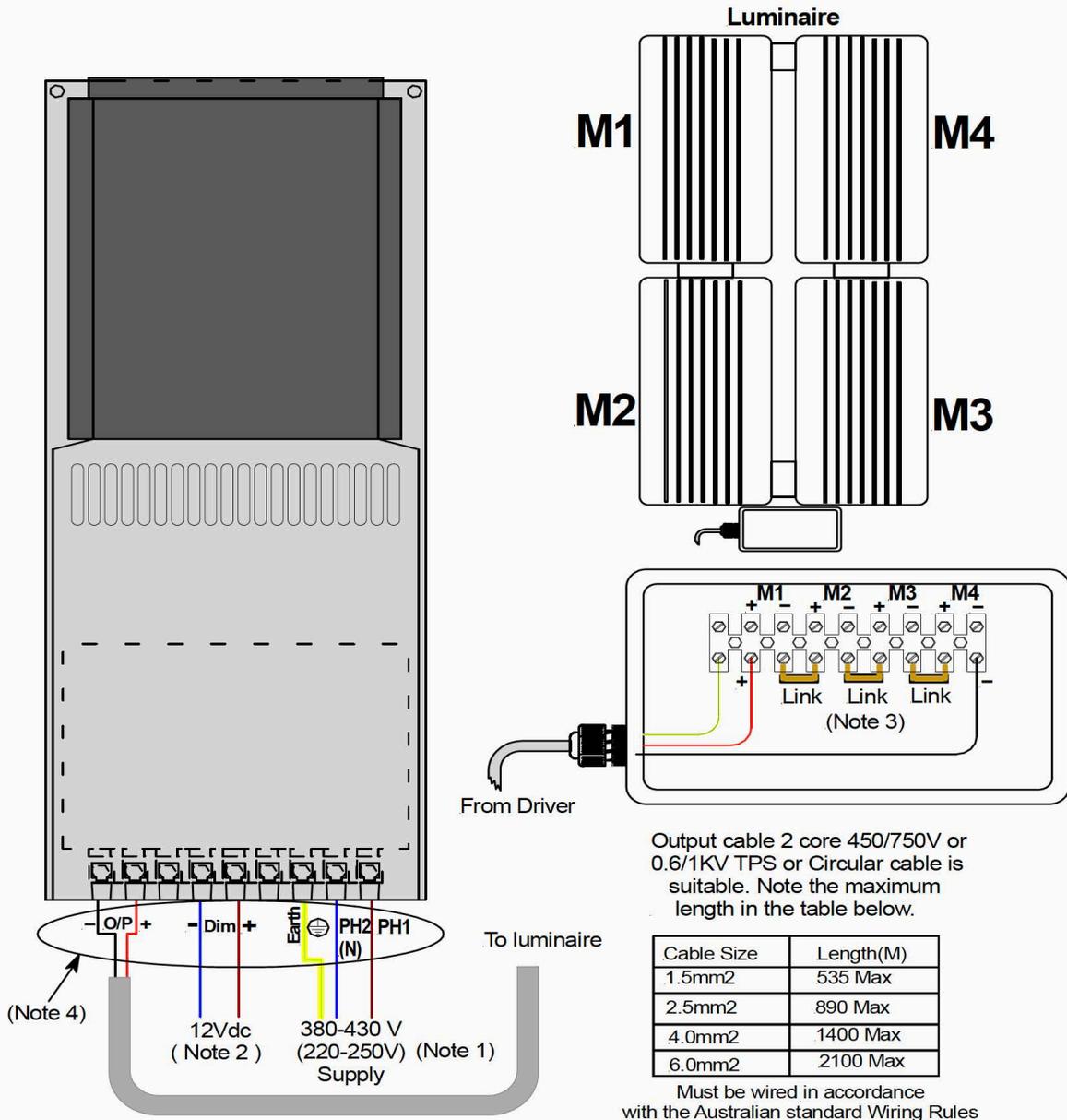
Earth Leakage Current - 0.2mA per unit

## Breaker Recommendations (415V)

MCB CURRENT RATING	"C" CURVE MAXIMUM NO OF RAPTOR	"D" CURVE MAXIMUM NO OF RAPTOR
16A	3 RAPTOR	3 RAPTOR
20A	3 RAPTOR	4 RAPTOR
25A	4 RAPTOR	5 RAPTOR
32A	6 RAPTOR	7 RAPTOR
40A	7 RAPTOR	9 RAPTOR

# Wiring Diagram for IP20 & IP65

(IP65) SRFHERWP01T, SRFHFRWP01T  
(IP20) SRFHERGT01T, SRFHFRGT01T

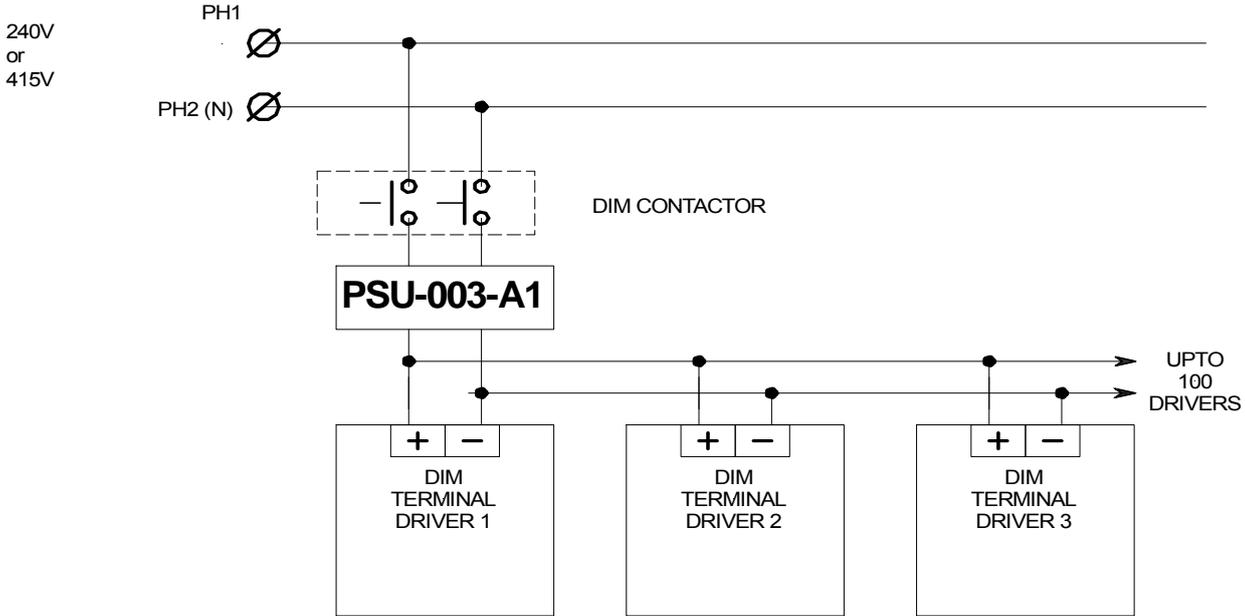


Notes 1: 380-430 V  
220-250 V

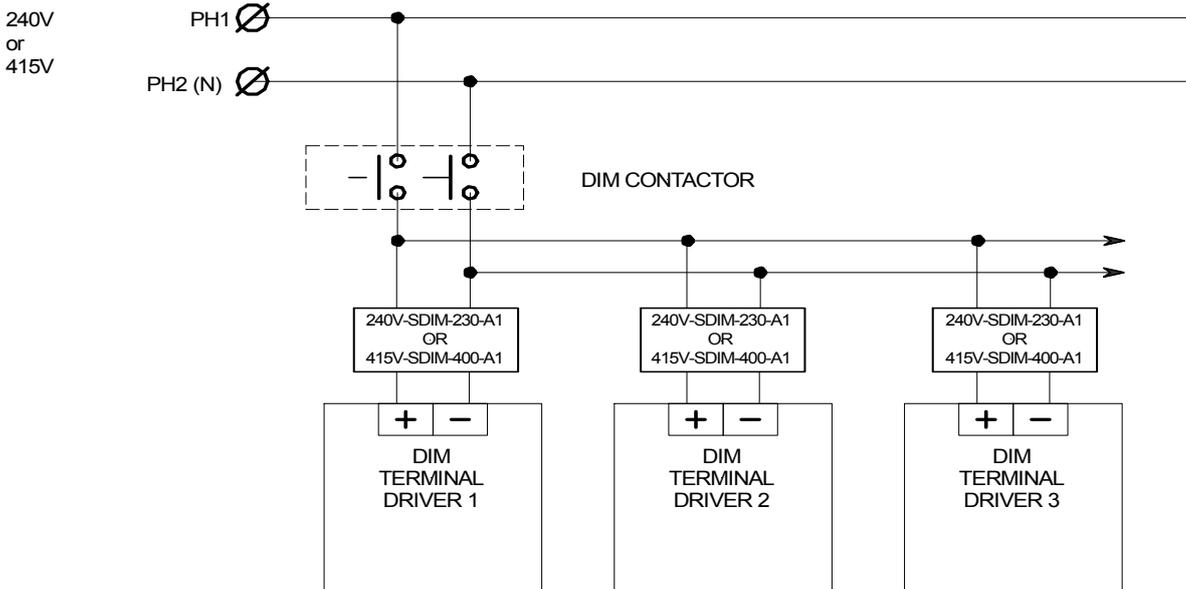
- 2: See additional dim signal wiring information on following page when using optional PSU-003-A1, or Mains voltage dim interface modules SDIM-230-A1 or SDIM-400-A. Whichever dim signal system is used the dim cable must be sheathed and be rated for the same or higher voltage as the supply cables.
- 3: Three links supplied with driver must be fitted during installation
- 4: To maintain optimum surge withstand capability, the input, output and dim cables ideally should be segregated as much as possible. A distance of even 10mm is adequate. If multiple drivers are located in the same pole or cabinet, it is acceptable to cable tie or group all of the outputs together but separated from the inputs which also can be grouped. Secure cables to the insulating panel using the cable ties provided.

# Alternative DIM Signal Wiring Arrangements

## 1) Using PSU-003-A1 ( Input 100 - 430 Vac, Output 12Vdc)



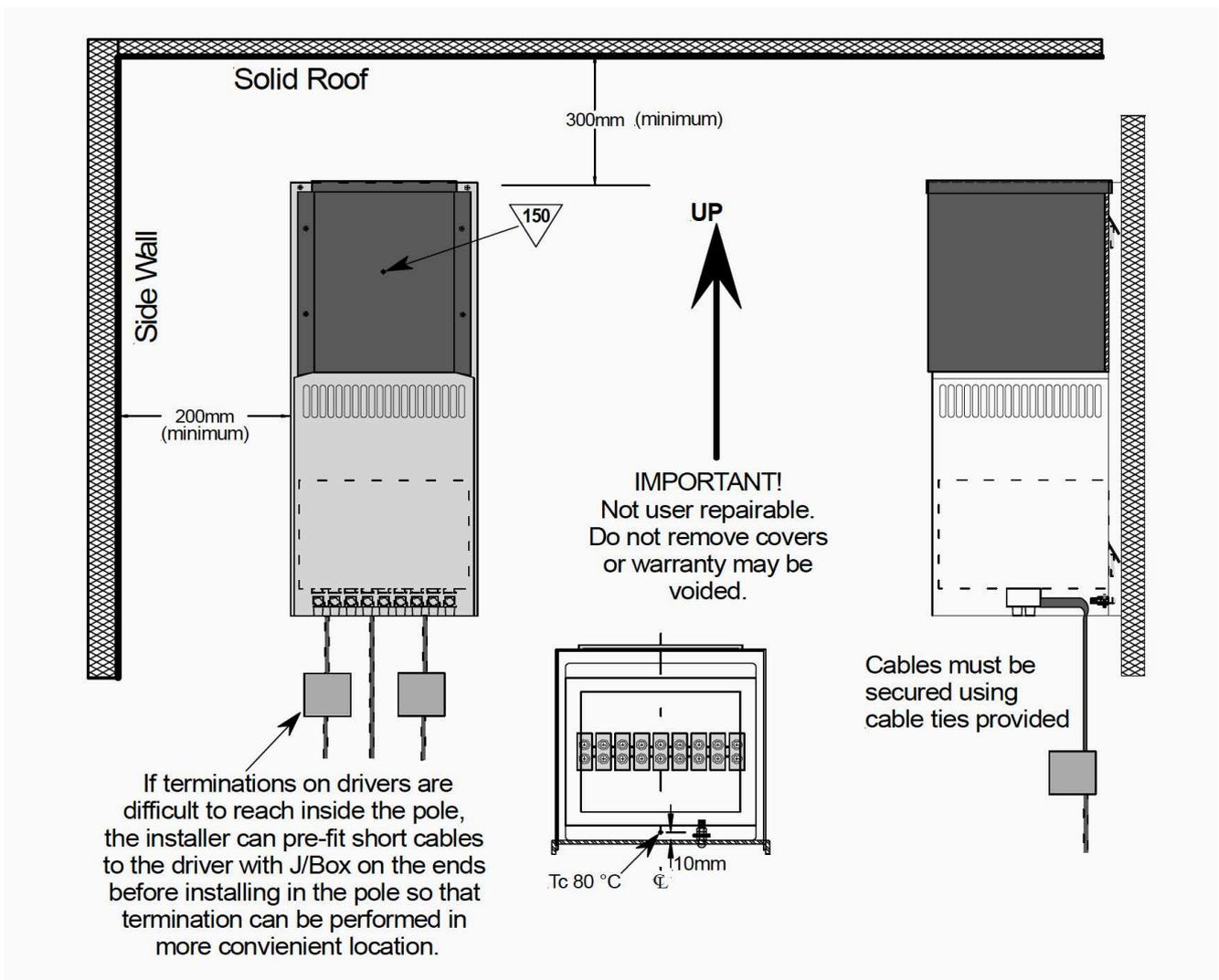
## 2) Using SDIM-230-A1 for DIM signal 220V - 250V or SDIM-400-A1 for Dim Signal 380-430V



# Mounting Instructions for IP20

## SRFHERGT01T (240V), SRFHFRGT01T (415V)

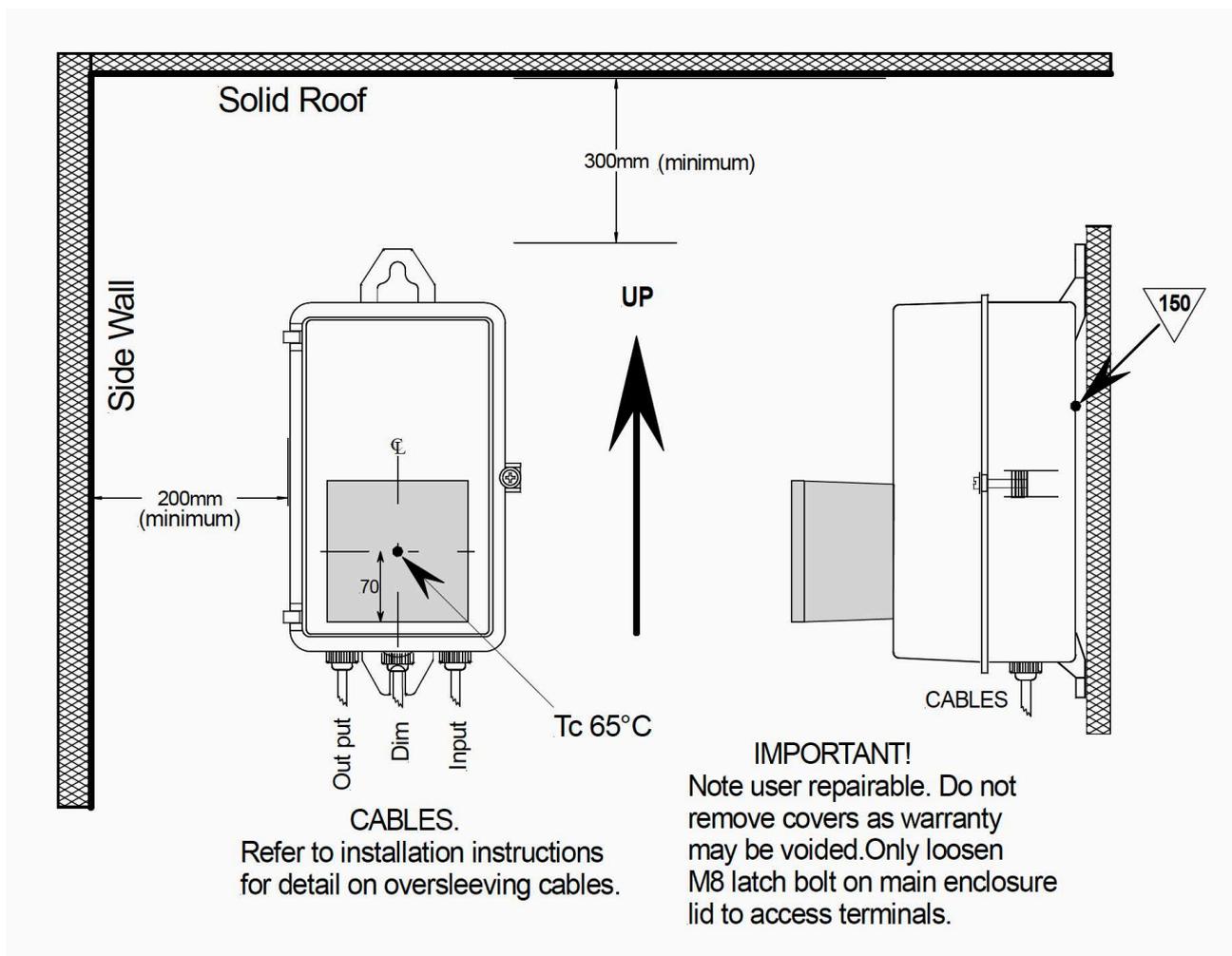
Both HORIZONTAL and VERTICAL mounting are acceptable. These drivers are designed to be built-in to an enclosure or pole. If condensation is likely to occur, vertical mounting is preferred. When vertically mounting the cable termination must always be at the bottom. If mounting indoor, close to walls and ceiling use the below diagram as a guide for minimum spacing. Importantly these instructions are a guide only and the installer must ensure there is adequate airflow so that the Ta rating stated in this specification is not exceeded. Refer to drawing below for Tc location.



## Mounting Instructions for IP65

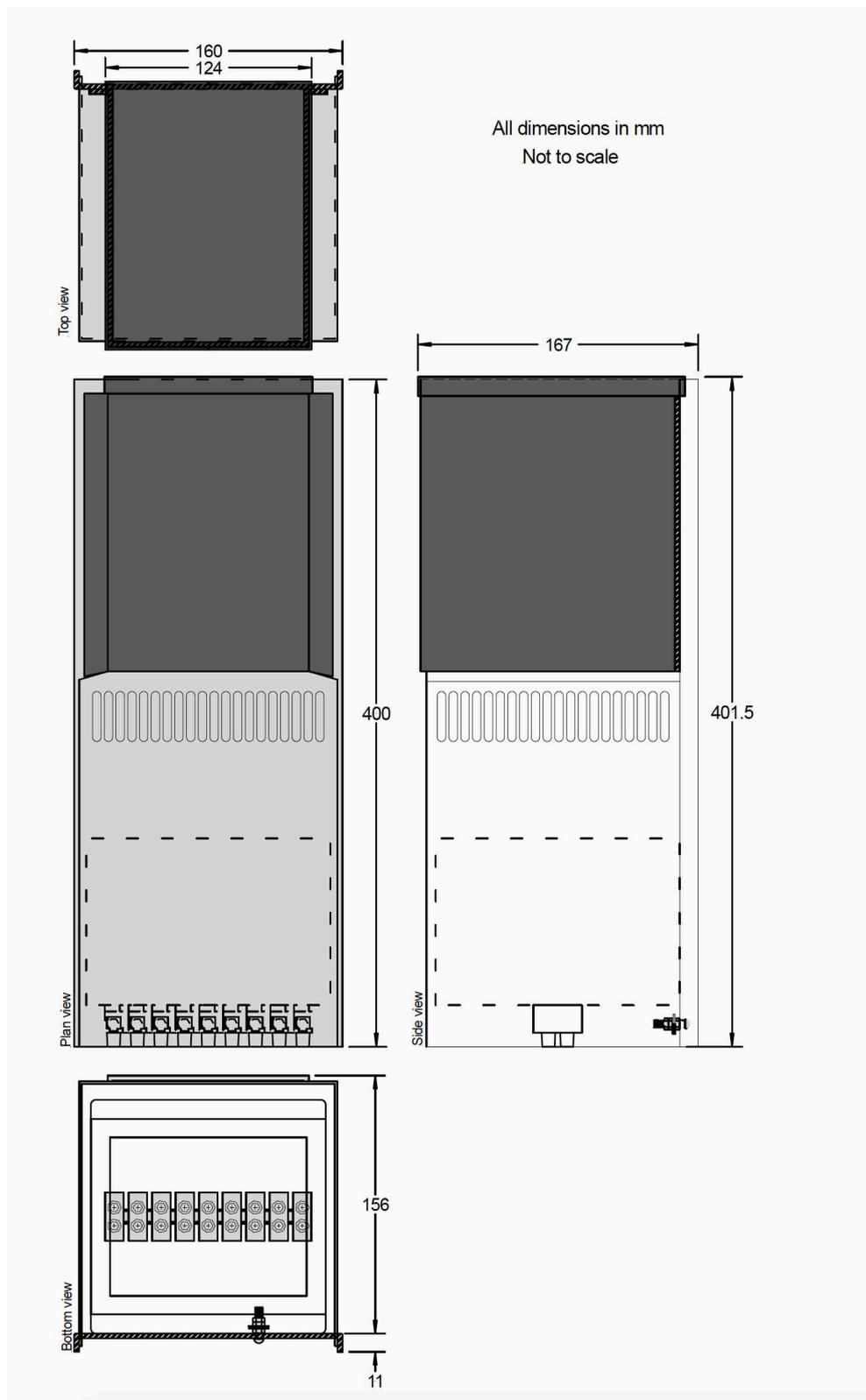
### SRFHERWP01T (240V), SRFHFRWP01T (415V)

The IP65 driver is designed for outdoor applications in open air. If it is used indoors it is important to ensure adequate airflow around the driver so that the localised ambient does not significantly increase. The diagram below gives guidance for the minimum distance from walls and ceiling. If grouping drivers the installer must ensure spacing between each drivers horizontally of at least 200mm and vertically 300mm. Importantly the spacing information provided here is only a guide and it is the installers responsibility to check that the localised ambient does not exceed the Ta rating in these specifications. In both outdoor and indoor applications the IP65 drivers must be mounted vertically with the cable entries at the bottom. Suitable IP rated cable glands or conduit glands must be used to maintain the driver IP rating. Refer to drawing below for Tc location.



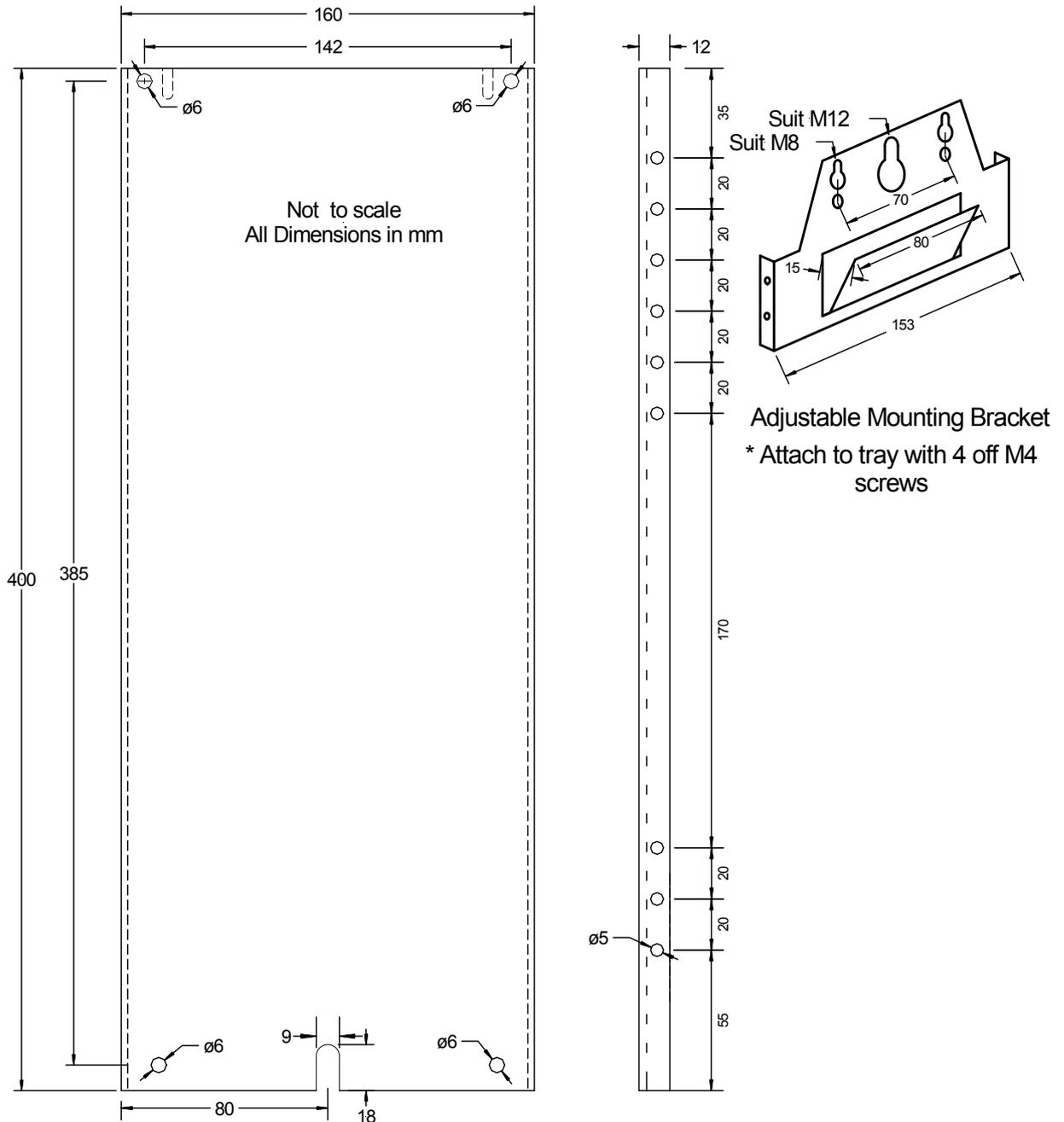
## Physical Dimensions IP20

**SRFHERGT01T (240V), SRFHFRGT01T (415V)**



# Mounting Dimensions for IP20 Tray

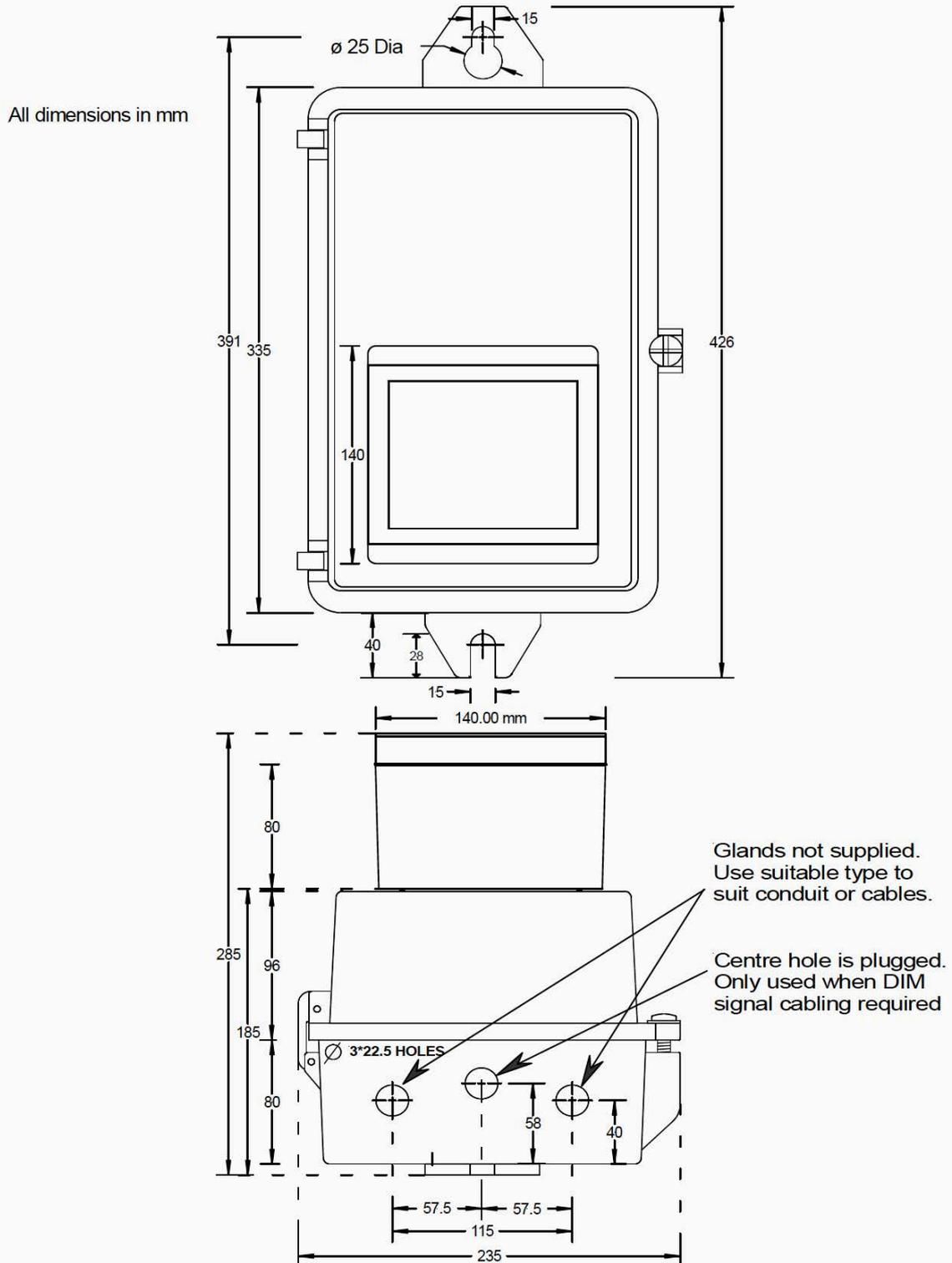
**SRFHERGT01T (240V), SRFHFRGT01T (415V)**



\* Note: The mounting bracket, BKT-MC07256, can be attached in various locations to the side flanges of the tray using the 4 off M4 screws provided. The bracket can be used to hang the tray on a cross bar using the pushed out tab or it can be reversed and positioned to provide keyhole mounting beyond the end of the tray. The tab can be flattened if keyhole mounting is used. The installer is responsible to determine the suitability of the bracket for the application taking into account safety factors.

# Physical Dimensions IP65

SRFHERWP01T (240V), SRFHFRWP01T (415V)



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