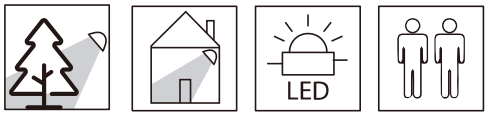
TROPHY

THORN

EN **Installation Instruction**



The installation and commissioning of the luminarie as well as any modification to the luminarire may only be performed by authorised personnel (qualified electrician). National installation regulations must be observed. Caution! Make Sure that the luminaires and power supply units are always disconnected from the mains supply during wiring and installation work. Otherwise, the LED modules may be destroyed.

Hot plug-in is not permitted. Hot plug-in may result in damage to the luminaire and entail loss of warranty claims!

The manufacturer is not liable for damages resulting from improper or faulty installation, or operation or unauthorised modifications to the luminaire or control gear.

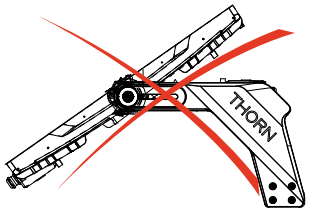
Any modification to this luminaire is forbidden.

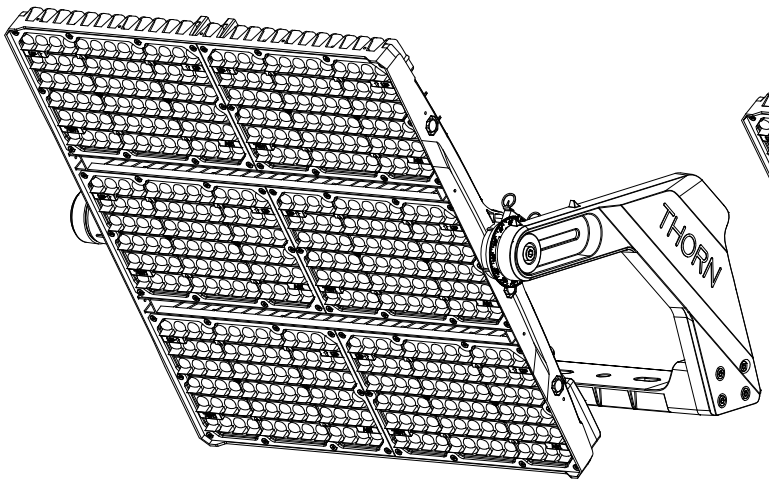
The light source contained in this luminaire shall only be replaced by the manufacturer or their service agent or a similarly qualified person.

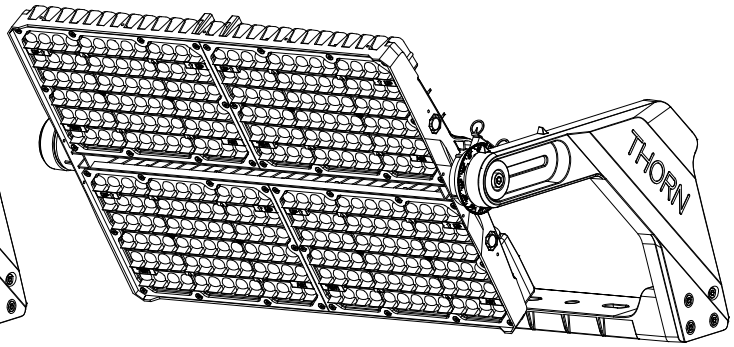
Specifications are subject to change without notice! If you have questions, please contact the manfacturer.

The luminaire with clear optic should be positioned so that prolonged staring into the luminaire at a distance <2m is not expected.

Caution, risk of electric shock.

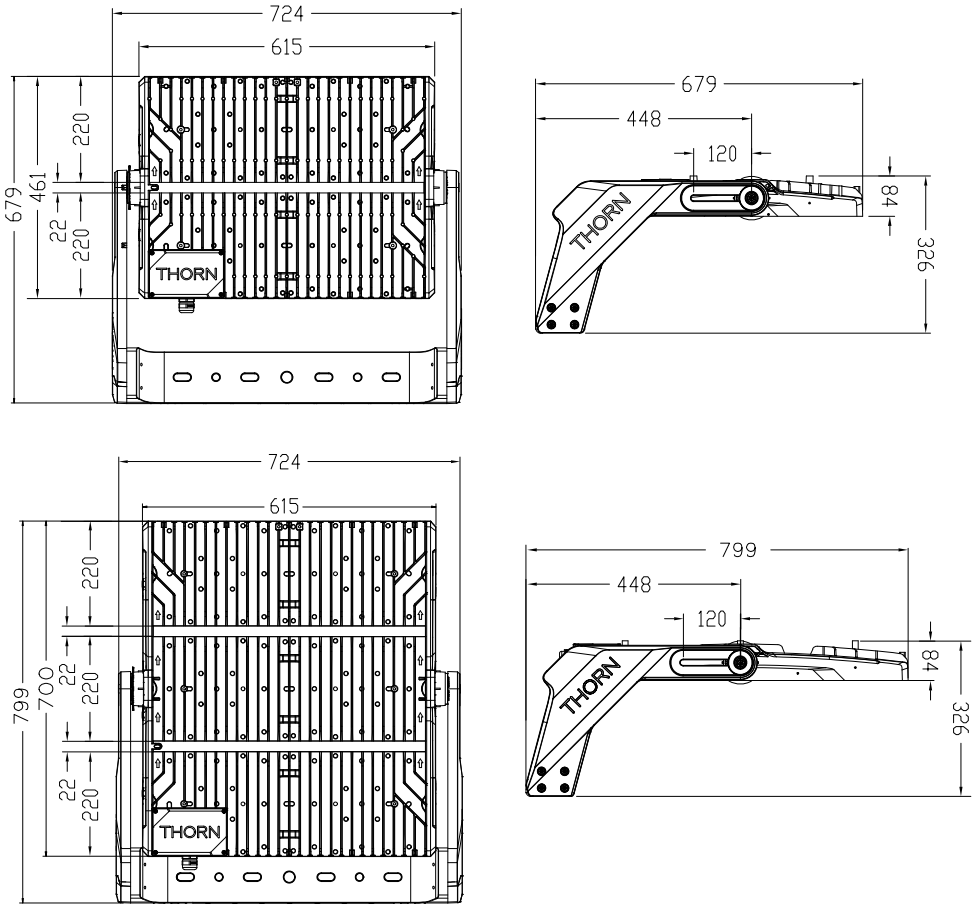






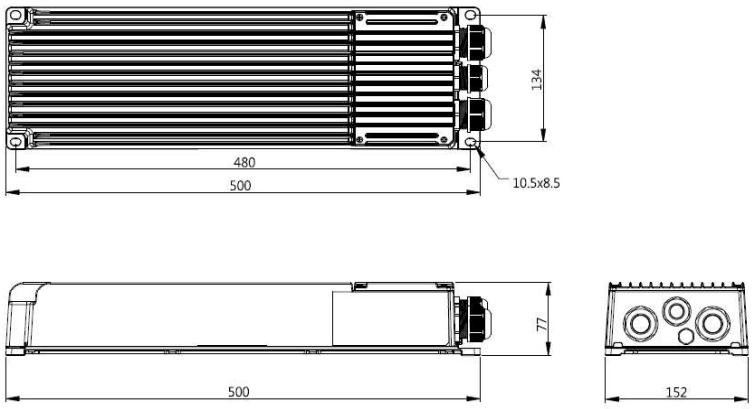
IK08 IP66 Ta: -20C to 45C

DIMENSIONS



TROPHY

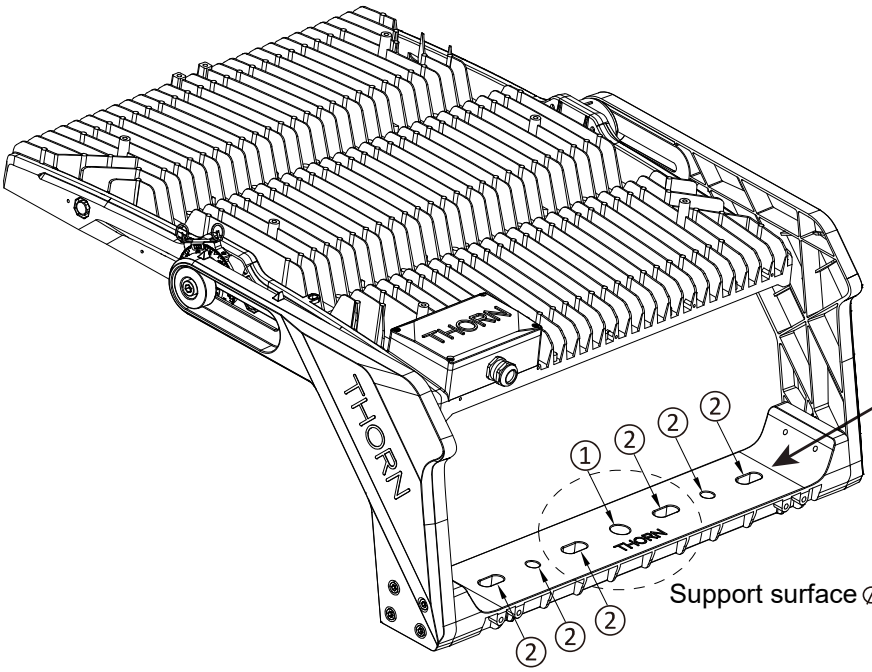
SAP CODE	DESCRIPTION	SIZE (mm)	NET WEIGHT
96652485	TROPHY 312L757 AS1	L679xW724xH326	17.6kg
96652488	TROPHY 312L757 AS2	L679xW724xH326	17.6kg
96652489	TROPHY 468L757 AS1	L799xW724xH326	22.4kg
96652490	TROPHY 468L757 AS2	L799xW724xH326	22.4kg

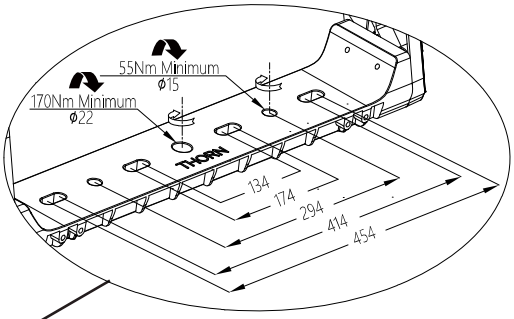


GEAR BOX

SAP CODE	DESCRIPTION	SIZE (mm)	NET WEIGHT
96652491	TROPHY GB IP66 312L105 240-415V CL1 DA	L500xW152xH77	5.1kg
96652492	TROPHY GB IP66 468L105 240-415V CL1 DA	L500xW152xH77	5.6kg

SURFACE MOUNTING

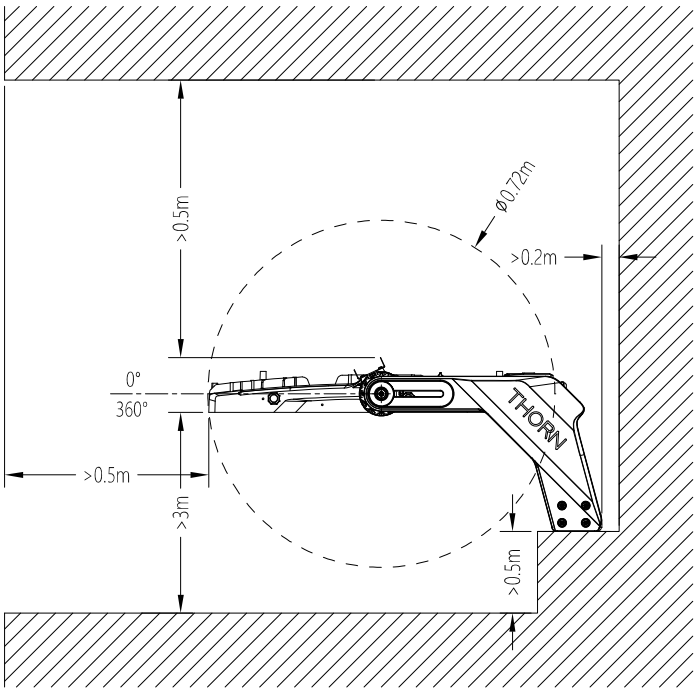




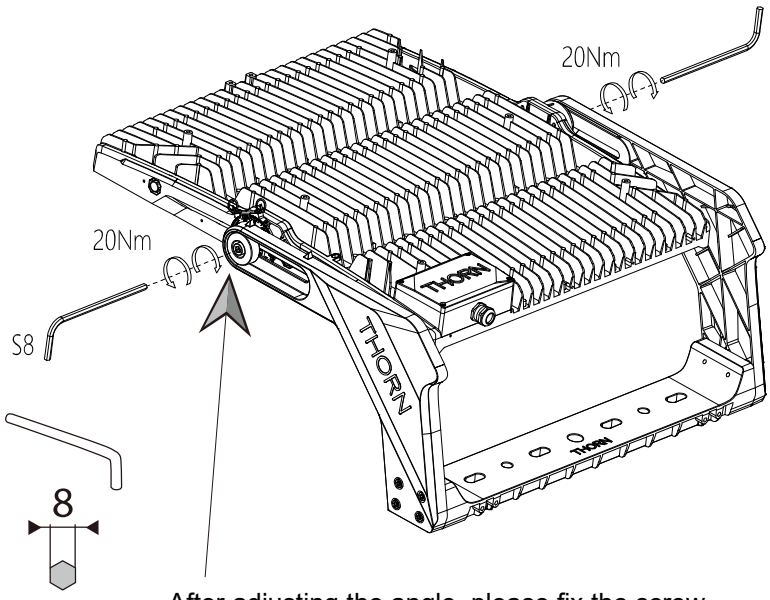
① 1 x M20 with extra large washer (not provided)
or
② 2 x M14 with extra large washer (not provided)

Support surface ∅250mm minimum

MINIMUM CLEARANCES



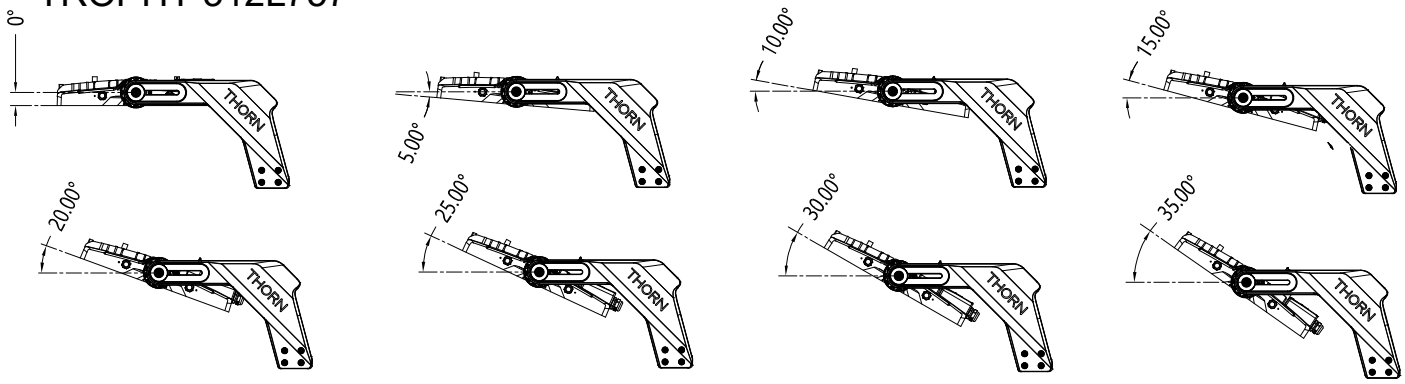
TILT ADJUSTMENT



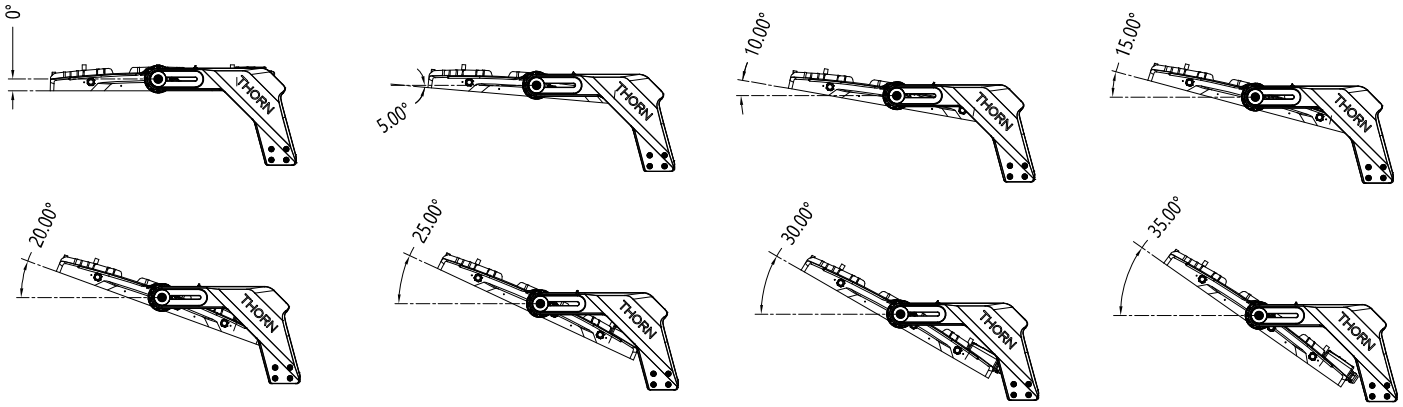
After adjusting the angle, please fix the screw

WINDAGE VALUES & TILT ANGLES

TROPHY 312L757

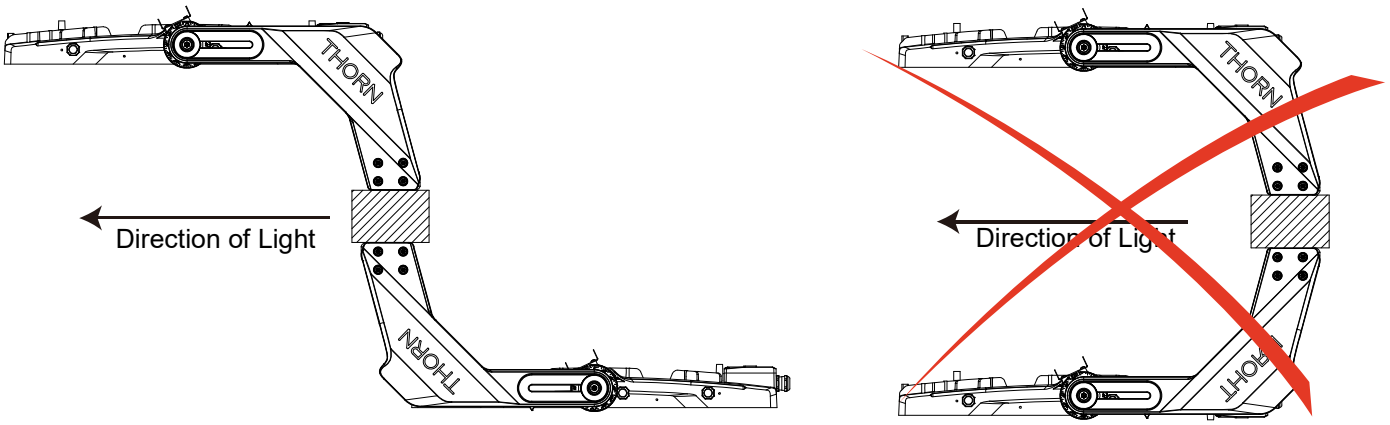


TROPHY 468L757

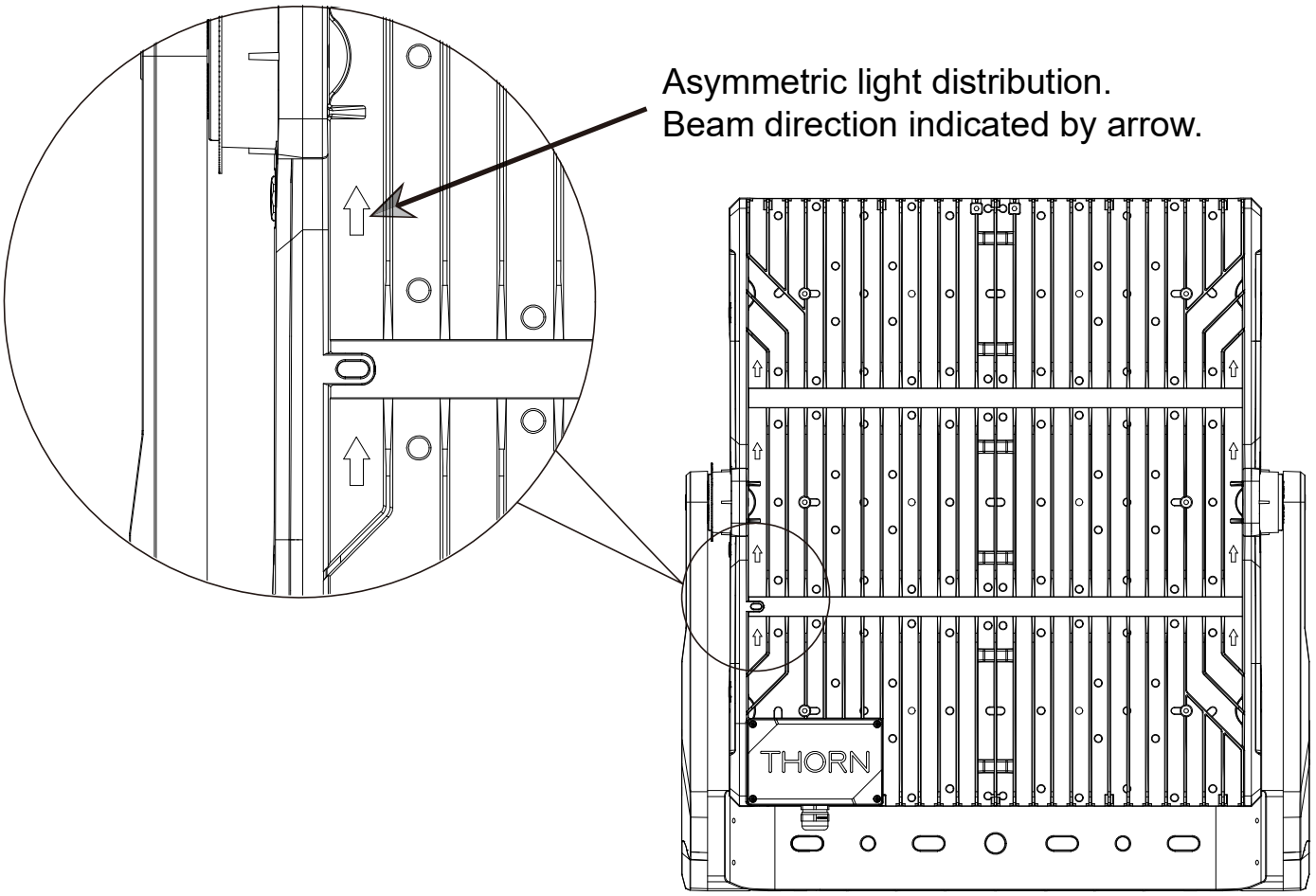


MODEL	Scx0°	Scx5°	Scx10°	Scx15°	Scx20°	Scx25°	Scx30°	Scx35°	WEIGHT
TROPHY 312L757	0.091m²	0.105m²	0.126m²	0.147m²	0.169m²	0.190m²	0.209m²	0.228m²	17.6kg
TROPHY 468L757	0.091m²	0.117m²	0.150m²	0.184m²	0.219m²	0.252m²	0.283m²	0.313m²	22.4kg

OVER AND UNDER-SLINGING

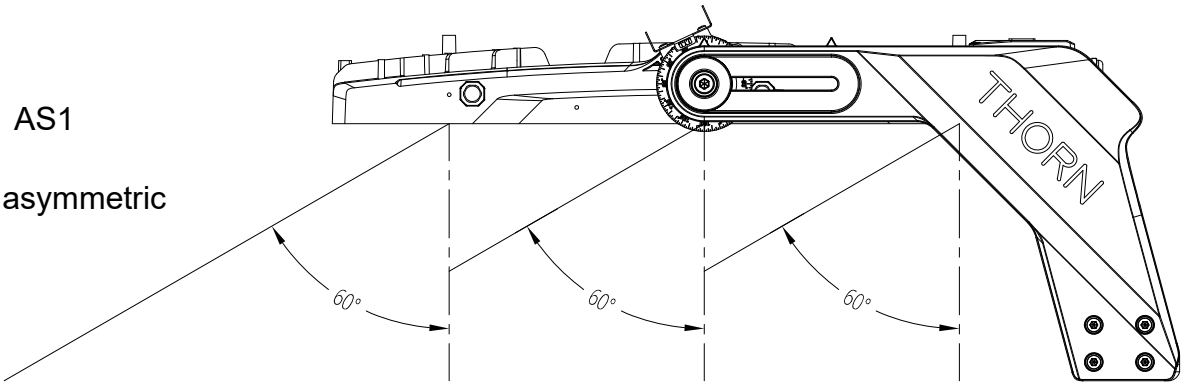


LIGHT DISTRIBUTION DIRECTION



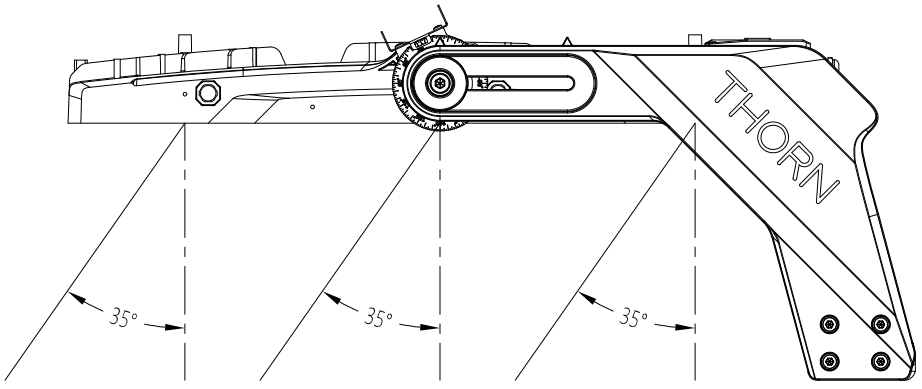
AS1

60° asymmetric

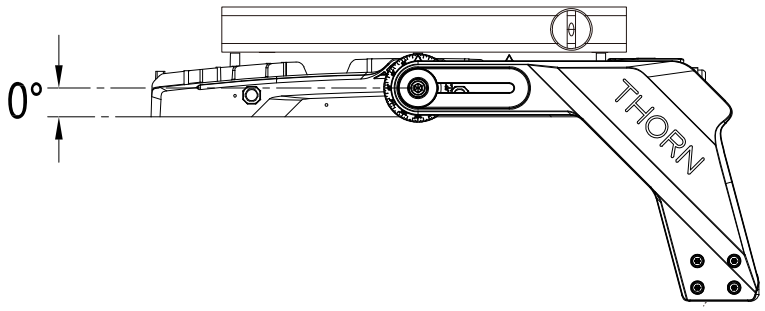


AS2

35° asymmetric



AIMING AND TILTING LUMINAIRES

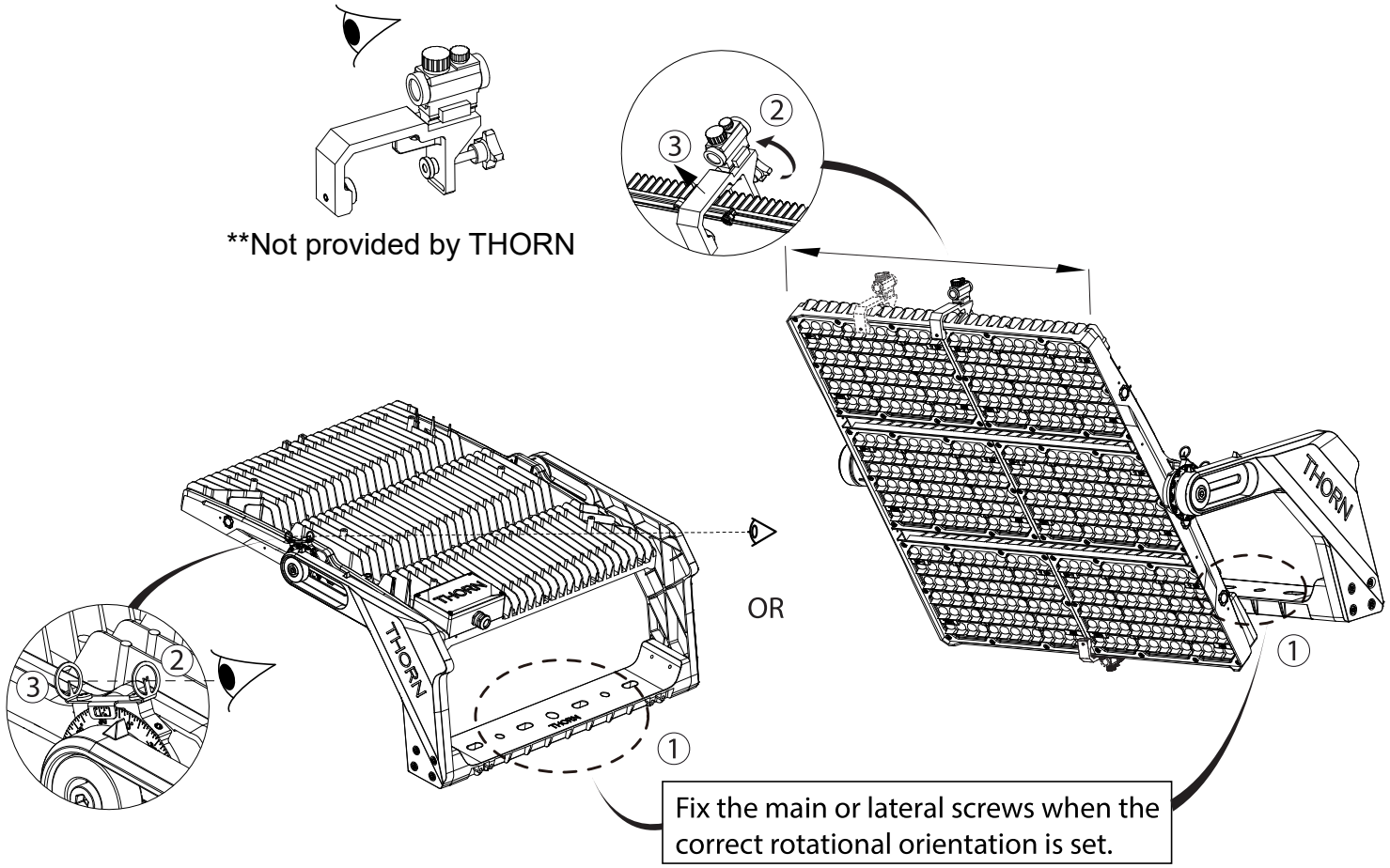


There are several ways that floodlights can be aimed. As best practice, floodlights should be installed on the poles/cross-arms and with poles erected in their final installation positions before any aiming is done.

Markers should be placed on the ground at specific reference points in accordance with the lighting design. Aiming can be carried out either by using the built-in aiming sight or ordering a separate aiming scope. If using the aiming scope, ensure that the scope is securely attached to the top of the floodlight as depicted below.

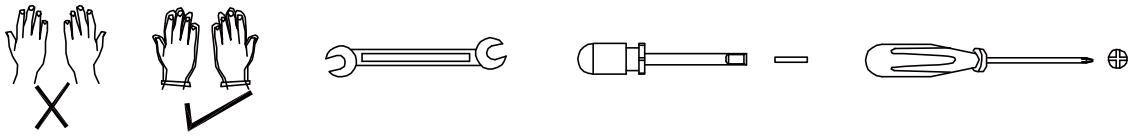
Installation bracket and tilt angle bolts will need to be slightly loosened to allow the floodlight to be manoeuvred for aiming, but remain tight enough to ensure the floodlight is securely held in place. Once the floodlight is correctly aimed at the marker point on the ground, tighten all bracket bolts to ensure floodlight is fixed in its final position.

To set the tilt angle of the floodlight, a inclinometer or spirit level can be placed flat across the level surface of the centre heat sink. Adjust the tilt angle of the main arm in accordance with the requirements in the lighting design. Tighten all bolts so that the floodlight tilt angle is fixed.

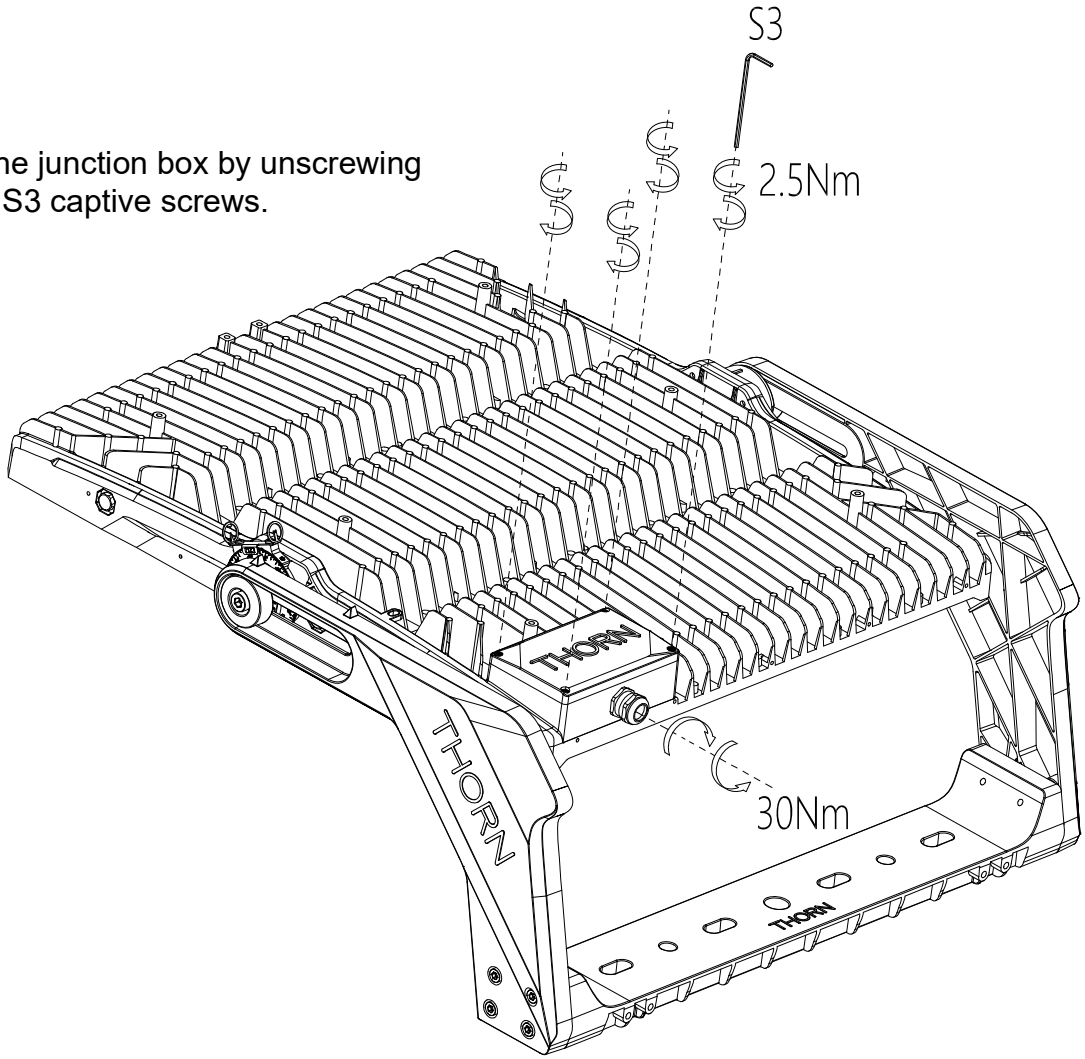


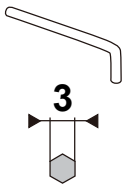
ELECTRICAL CONNECTIONS

Always ensure the cable diameters are followed in accordance with the wiring diagrams. Alternate cable types will compromise ingress protection ratings and void warranty.



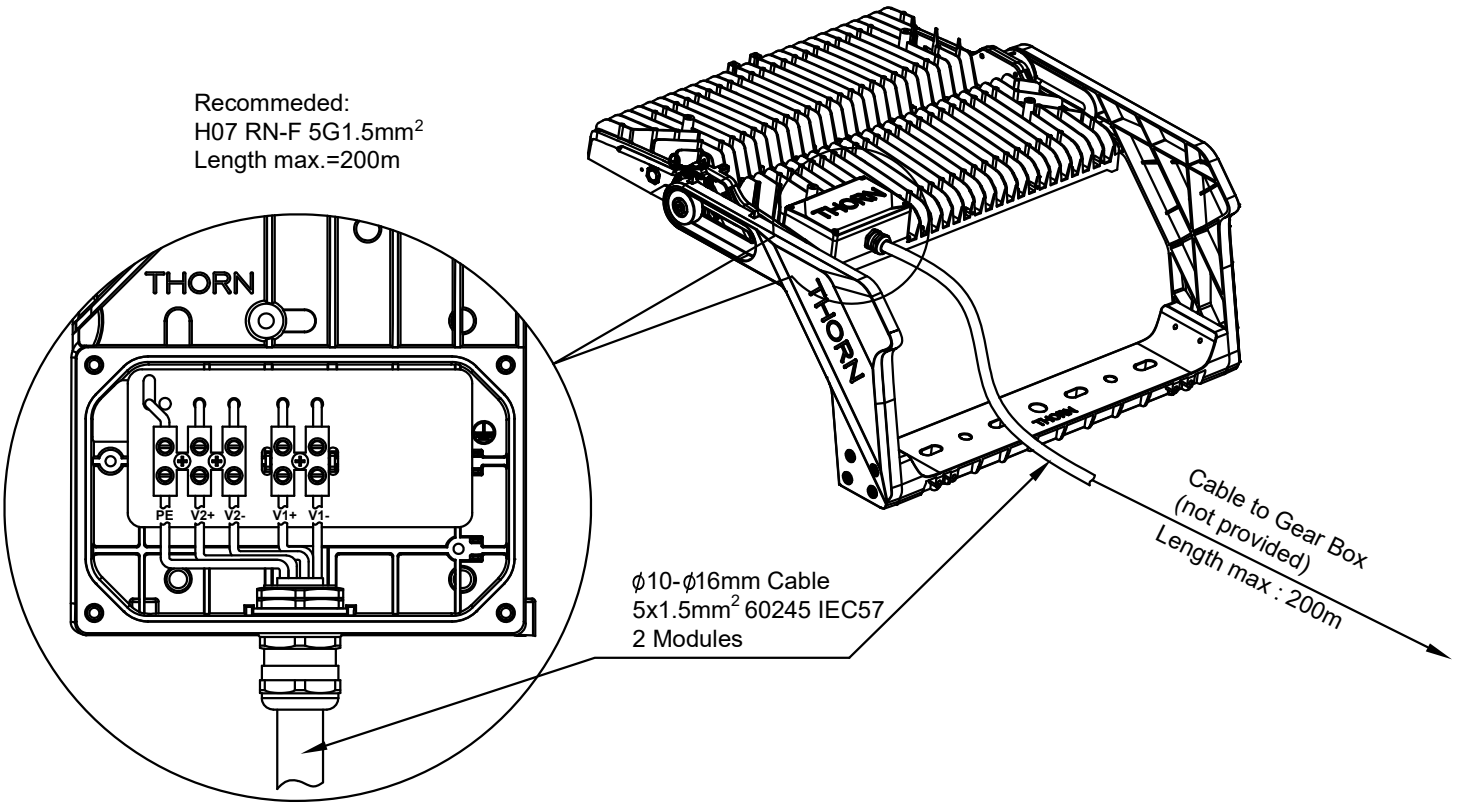
Open the junction box by unscrewing the 4 x S3 captive screws.



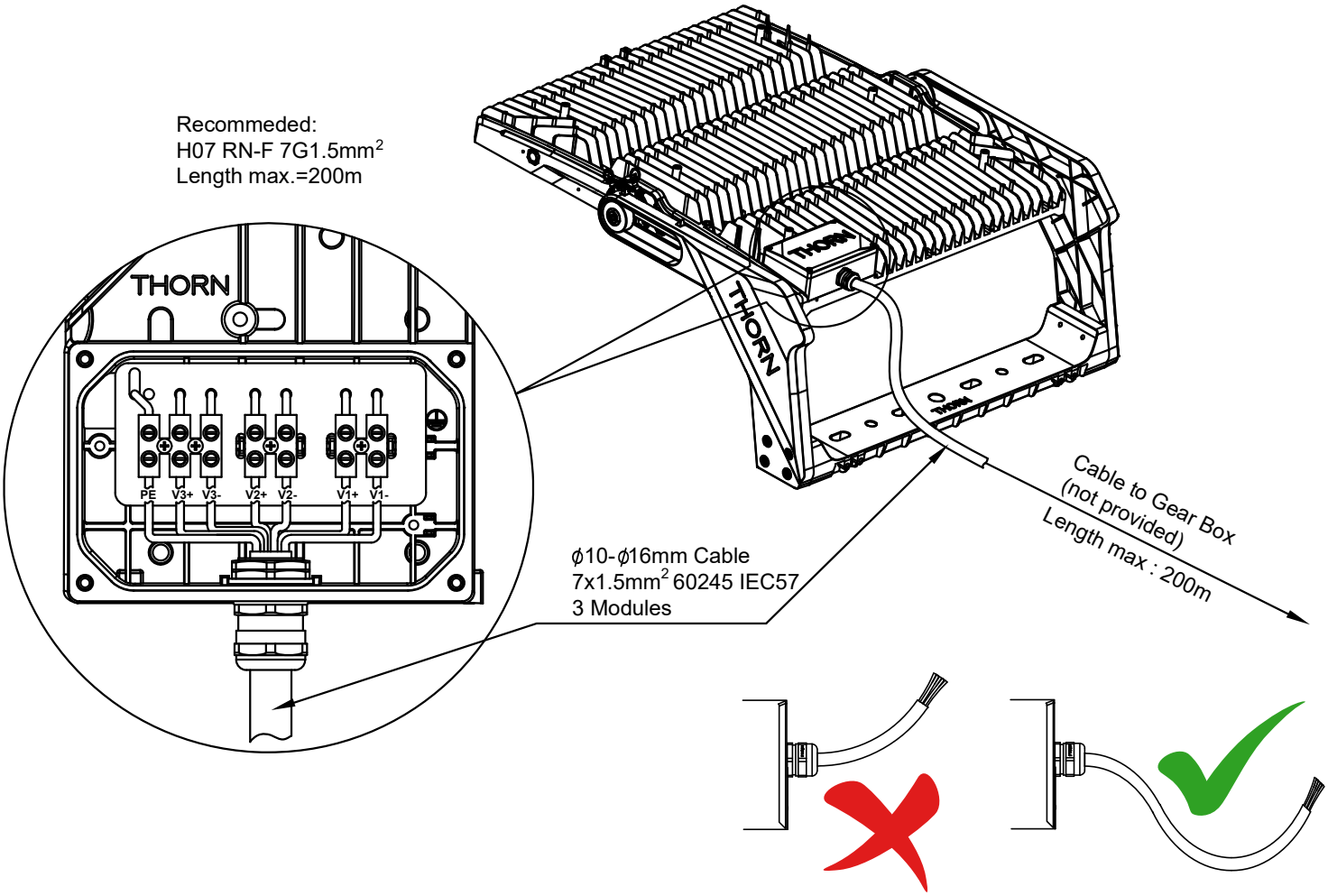


CONNECTION TO FLOODLIGHT

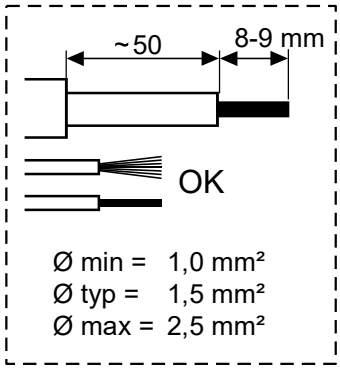
TROPHY 312L

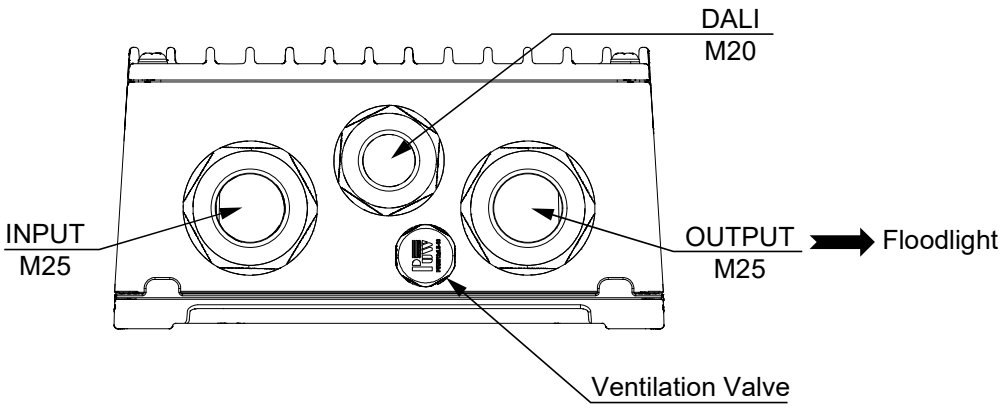


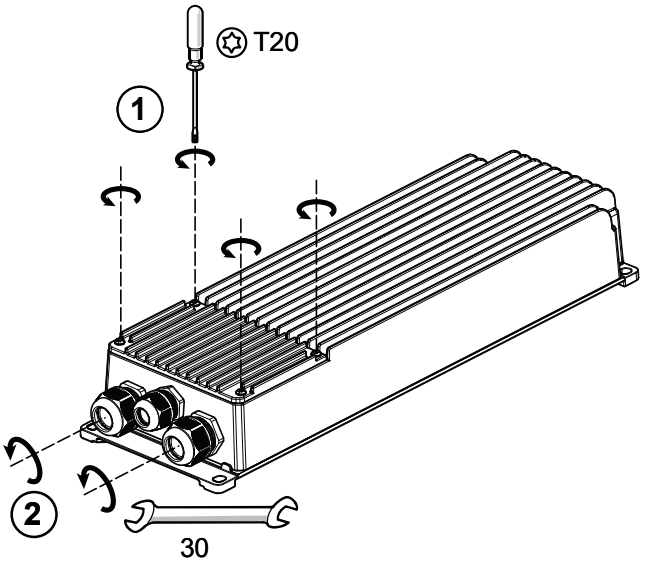
TROPHY 468L

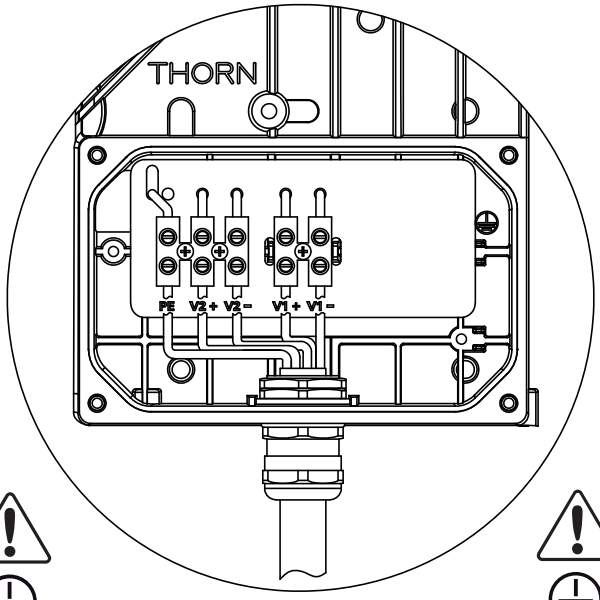


TROPHY GB IP66 312L / ELECTRICAL CONNECTION



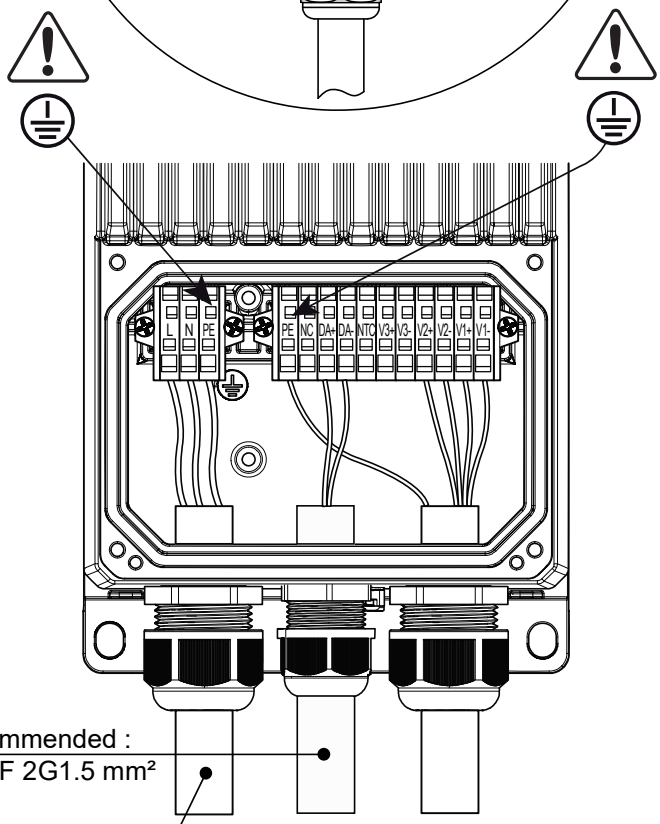






SIGNALLING LED INDICATIONS ON THE GEAR BOX			
PERIOD	PULSES	FAULT DESCRIPTION	PRIORITY
The encoded faults are based on pulses emitted every 4 seconds	1	One or more CCR module enabled by config are not communicating with logic board	Maximum
	5	Firmware version of one or more CCR module is not compatible with logic board firmware version	
	2	One or more CCR's output is short-circuited	
	3	Load failure on one or more CCR's output	
	4	Thermal derating active (output current reduction)	Minimum

PINOUT		
TROPHY	GB	Description
	L	AC INPUT
	N	AC INPUT
	PE	PROTECTIVE EARTH
	PE	PE FOR LED MODULE
	DA+	DALI INPUT DA+
	DA-	DALI INPUT DA-
V2+	V2+	OUTPUT CHANNEL 2+ (BOT BRICK)
V2-	V2-	OUTPUT CHANNEL 2- (BOT BRICK)
V1+	V1+	OUTPUT CHANNEL 1+ (TOP BRICK)
V1-	V1-	OUTPUT CHANNEL 1- (TOP BRICK)



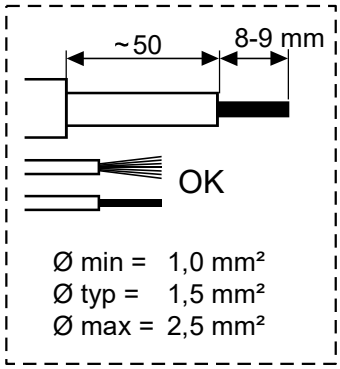
Recommended :
H07RNF 2G1.5 mm²

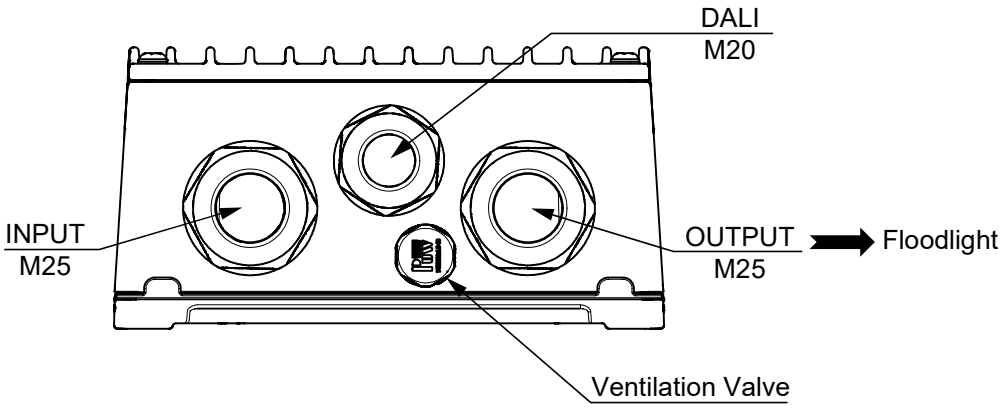
Recommended :
H07RNF 3G1.5 mm²

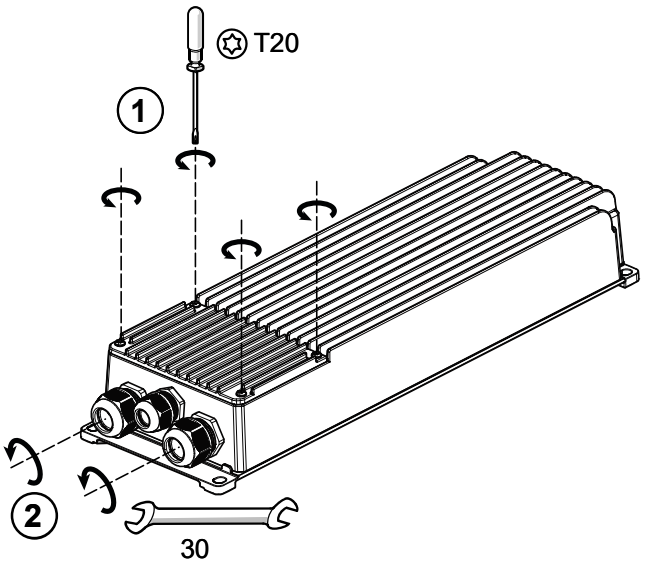
CABLE GLAND		
TYPE	ØMin	ØMax
M20	6.3 mm	11.3 mm
M25	10 mm	16.3 mm

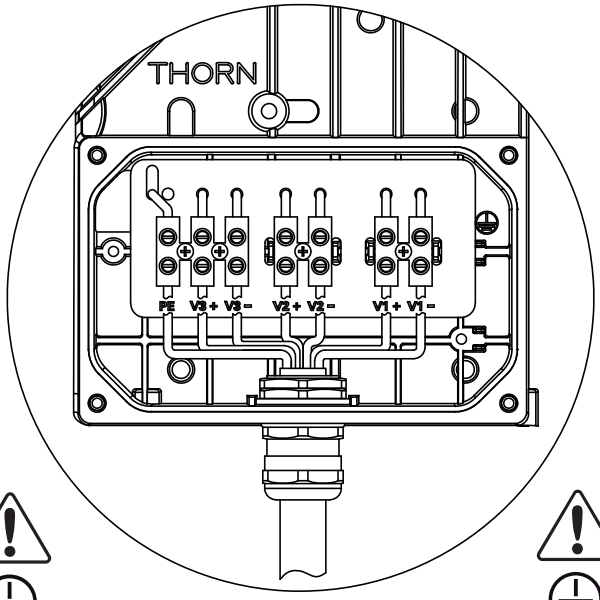
The wiring should be strictly followed by the marking label instruction, otherwise the product could be damaged or the functions could be affected. Each set of + or - are not potential identical, cross connection is prohibited.

TROPHY GB IP66 468L / ELECTRICAL CONNECTION



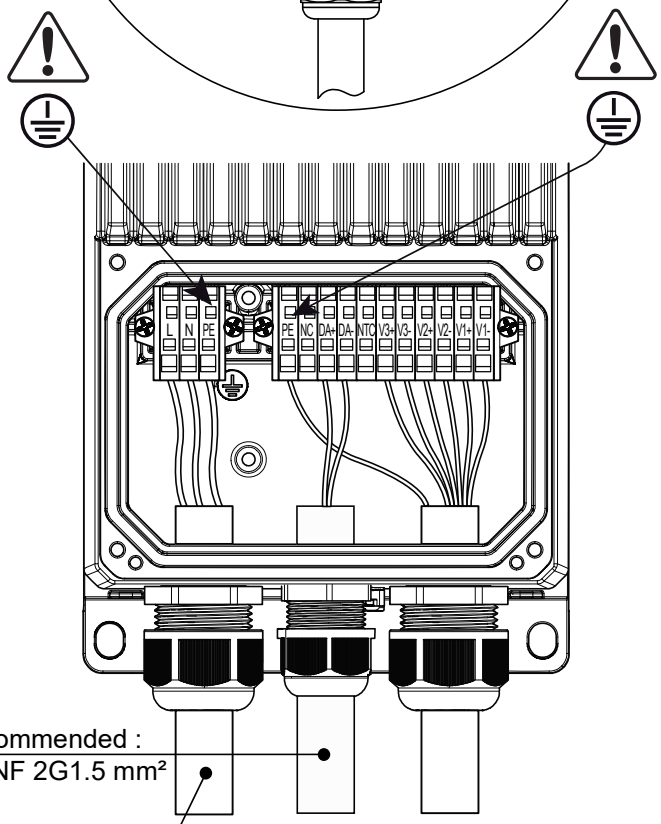






SIGNALLING LED INDICATIONS ON THE GEAR BOX			
PERIOD	PULSES	FAULT DESCRIPTION	PRIORITY
The encoded faults are based on pulses emitted every 4 seconds	1	One or more CCR module enabled by config are not communicating with logic board	Maximum
	5	Firmware version of one or more CCR module is not compatible with logic board firmware version	
	2	One or more CCR's output is short-circuited	
	3	Load failure on one or more CCR's output	
	4	Thermal derating active (output current reduction)	Minimum

PINOUT		
TROPHY	GB	Description
	L	AC INPUT
	N	AC INPUT
	PE	PROTECTIVE EARTH
	PE	PE FOR LED MODULE
	DA+	DALI INPUT DA+
	DA-	DALI INPUT DA-
V3+	V3+	OUTPUT CHANNEL 3+ (BOT BRICK)
V3-	V3-	OUTPUT CHANNEL 3- (BOT BRICK)
V2+	V2+	OUTPUT CHANNEL 2+ (MID BRICK)
V2-	V2-	OUTPUT CHANNEL 2- (MID BRICK)
V1+	V1+	OUTPUT CHANNEL 1+ (TOP BRICK)
V1-	V1-	OUTPUT CHANNEL 1- (TOP BRICK)



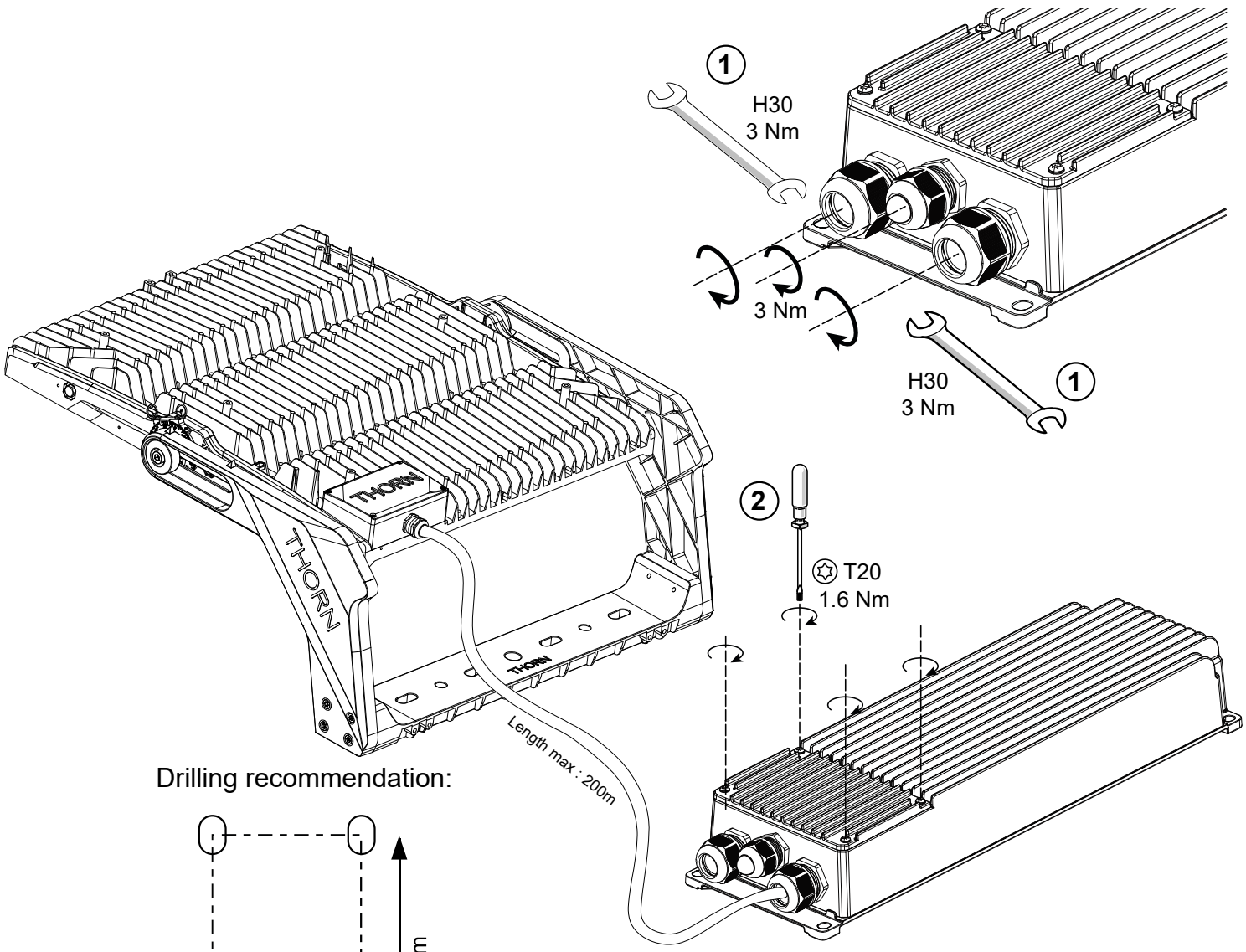
Recommended :
H07RNF 2G1.5 mm²

Recommended :
H07RNF 3G1.5 mm²

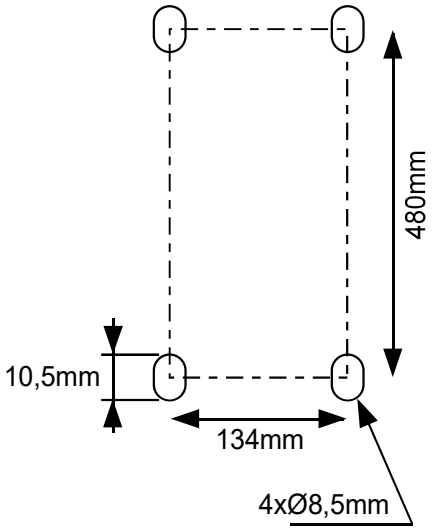
CABLE GLAND		
TYPE	ØMin	ØMax
M20	6.3 mm	11.3 mm
M25	10 mm	16.3 mm

The wiring should be strictly followed by the marking label instruction, otherwise the product could be damaged or the functions could be affected. Each set of + or - are not potential identical, cross connection is prohibited.

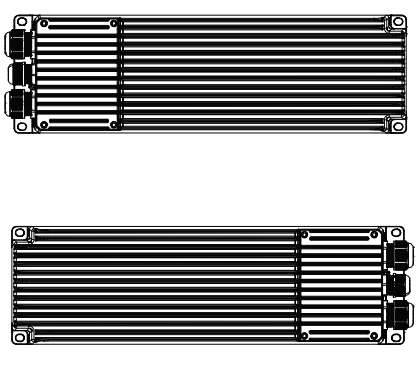
TROPHY GEAR BOX MOUNTING



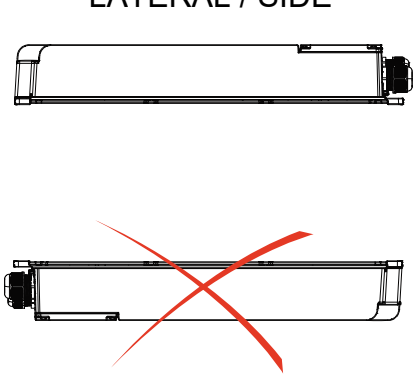
Drilling recommendation:



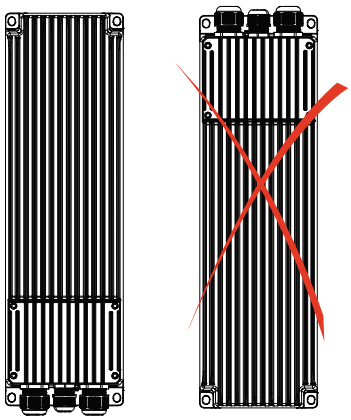
HORIZONTAL



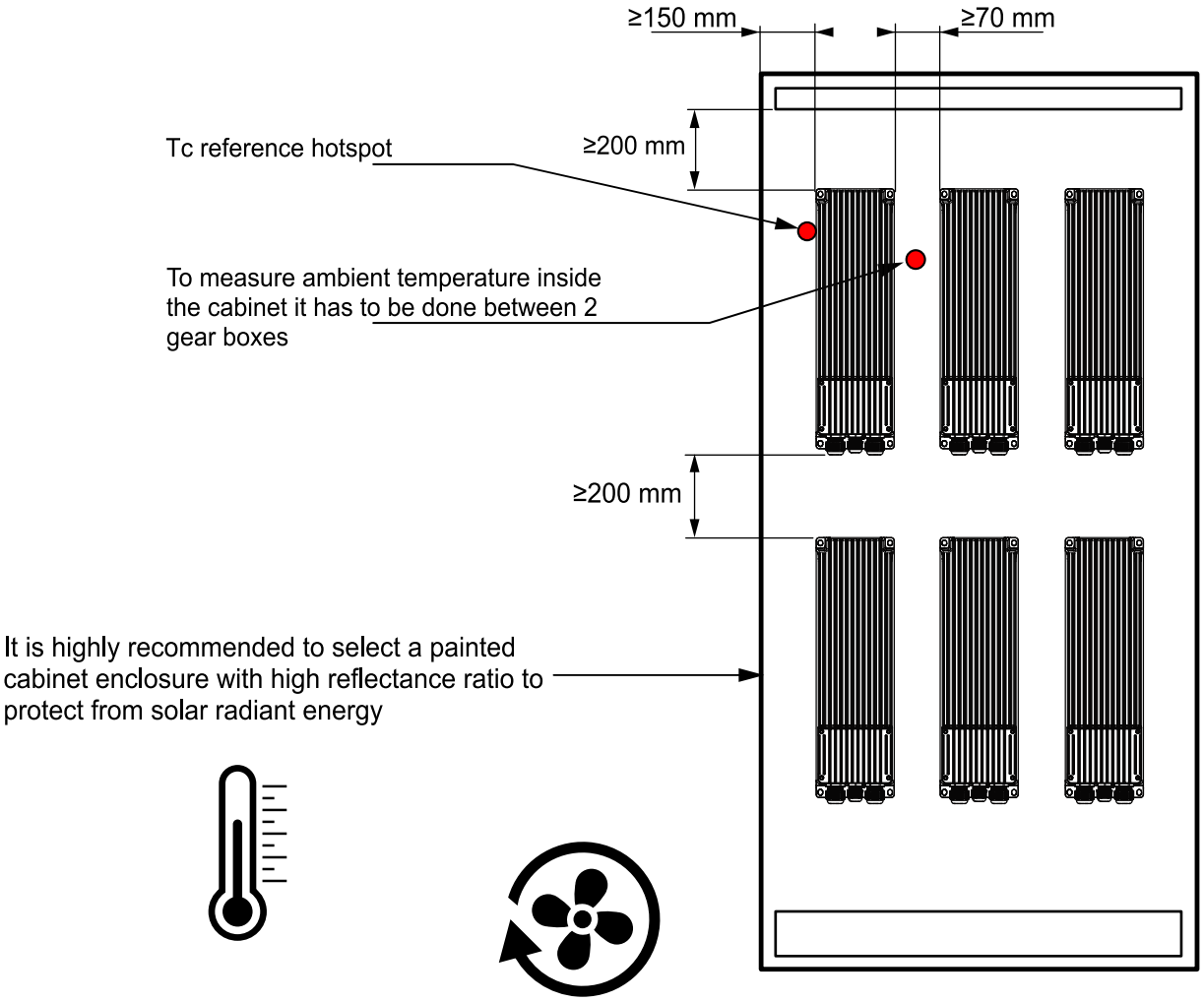
LATERAL / SIDE



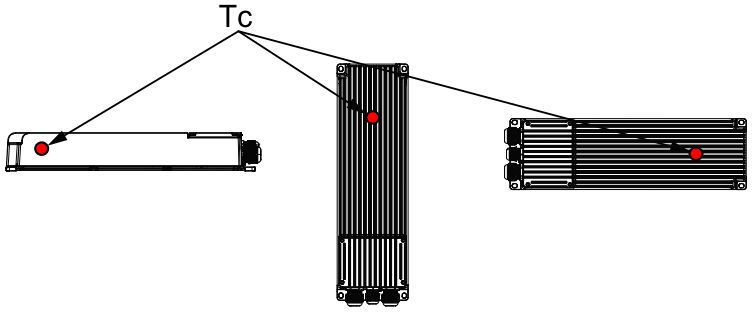
VERTICAL



GUIDELINE FOR INTEGRATION OF GEAR BOX



If you cannot follow the instructions included in previous section regarding gear box integration, you have to measure the temperature at Tc reference points and it has to be maintained under the Tc max indicated in the table below.

Tc Reference at Max Ambient			
Position	Horizontal	Vertical	Side
Mounting			
220Vac	85°C	84°C	85°C (Ref.)
400Vac	80°C	77°C	80°C (Ref.)
Ambient Max	50°C	50°C	50°C (Ref.)

TROPHY GEAR BOX
CIRCUIT BREAKER RECOMMENDATION / 200-440Vac MODELS

** Suitable SPD should be considered for the whole installation to ensure lighting equipment is adequately protected (not provided by THORN).

TROPHY GB IP66 312L105 240-415V CL1 DA
1000W Drivers for each circuit breaker

Referring to the circuit breakers available on the market, the maximum number on the driver connectable for each circuit breaker is as the following table.

Circuit Breaker Type	MCB B/C 10A	MCB B/C 16A	MCB B/C 20A	MCB B/C 25A	MCB B/C 32A
Input: 220~240Vac	1	2	2	3	4
Input: 380~400Vac	1	2	2	3	4

TROPHY GB IP66 468L105 240-415V CL1 DA
1500W Drivers for each circuit breaker

Referring to the circuit breakers available on the market, the maximum number on the driver connectable for each circuit breaker is as the following table.

Circuit Breaker Type	MCB B/C 10A	MCB B/C 16A	MCB B/C 20A	MCB B/C 25A	MCB B/C 32A
Input: 220~240Vac	1	1	2	2	3
Input: 380~400Vac	1	2	2	3	4