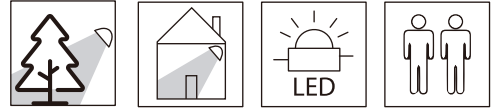


# CHAMPION PRO G3

# THORN

EN Installation instructions



The installation and commissioning of the luminaire as well as any modification to the luminaire may only be performed by authorised personnel (qualified electrician). National installation regulations must be observed. Before any work on the appliance is done, it must be disconnected from mains.

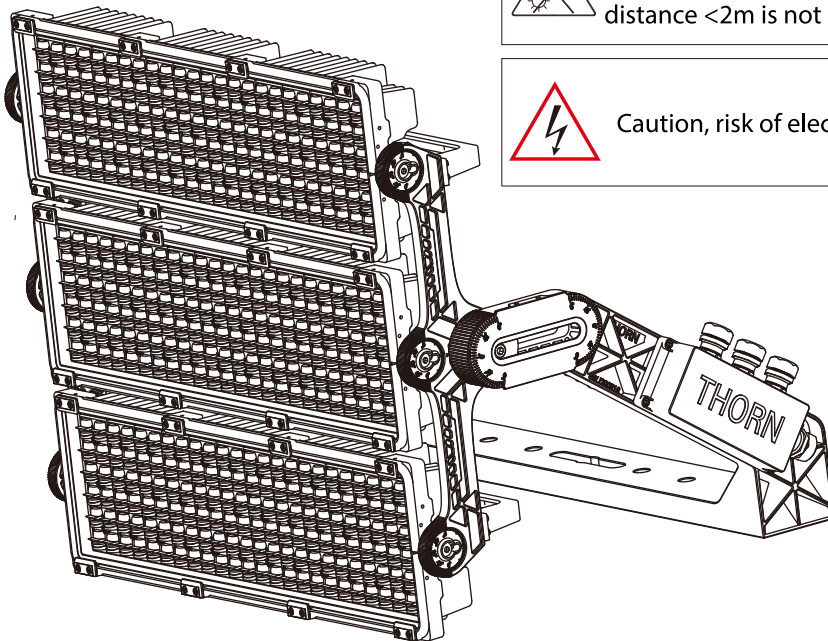
Hot plug-in is not an option and may cause damage to the luminaire!

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 manufacturer.



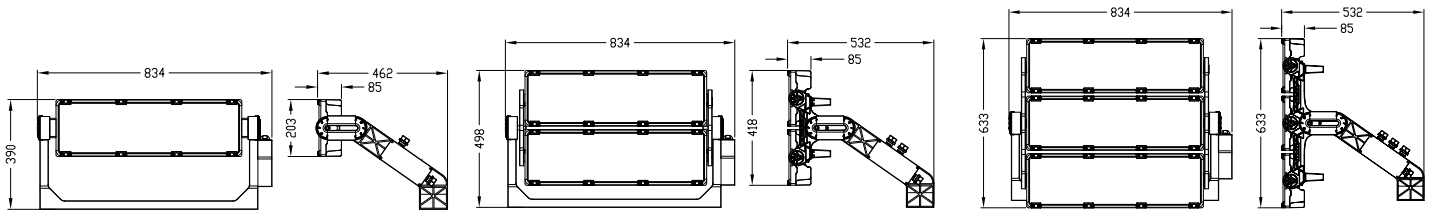
The luminaire with clear optic should be positioned so that prolonged staring into the luminaire at a distance <2m is not expected.



Caution, risk of electric shock.



# DIMENSIONS



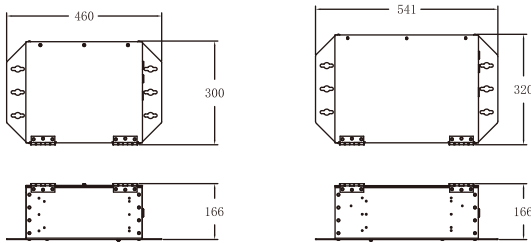
CHAMPION PRO G3 144L

CHAMPION PRO G3 288L

CHAMPION PRO G3 432L

## CHAMPION PRO G3

TYPE	SIZE	N.W.
CHAMPION PRO G3 144L	L834xW462xH390	15.0KG
CHAMPION PRO G3 288L	L834xW532xH498	23.0KG
CHAMPION PRO G3 432L	L834xW532xH633	32.2KG



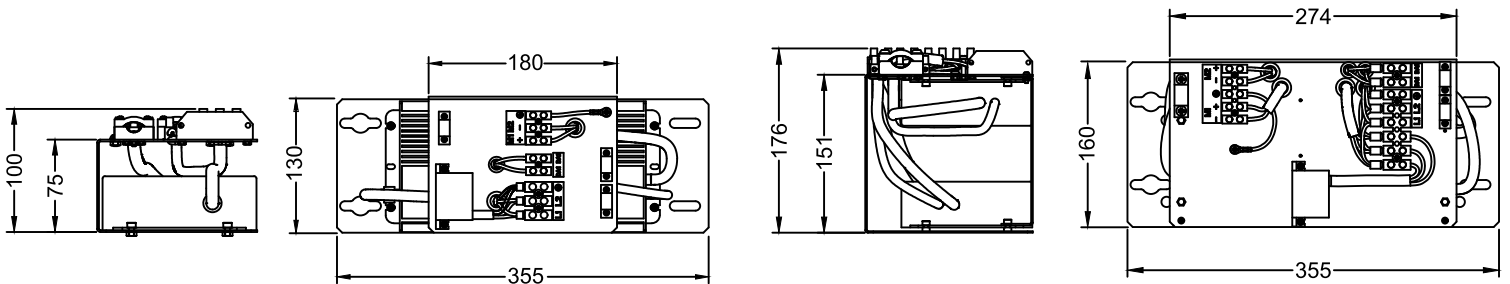
GB CHAMP G3 IP66 144L

GB CHAMP G3 IP66 288L /  
GB CHAMP G3 IP66 432L

## GEAR BOX

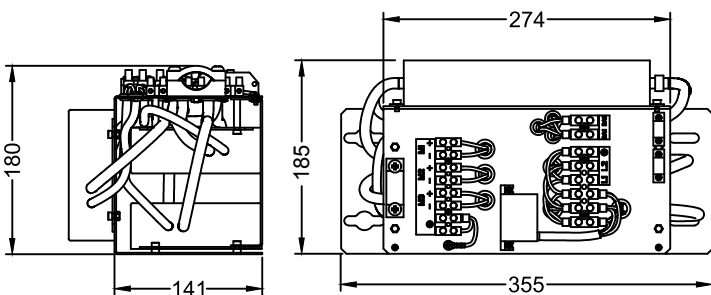
TYPE	SIZE	N.W.
GB CHAMP G3 IP66 144L	L460xW300xH166	8.2KG
GB CHAMP G3 IP66 288L	L541xW320xH166	12.0KG
GB CHAMP G3 IP66 432L	L541xW320xH166	15.8KG

## GEAR TRAY IP20



GT-OPT 144L

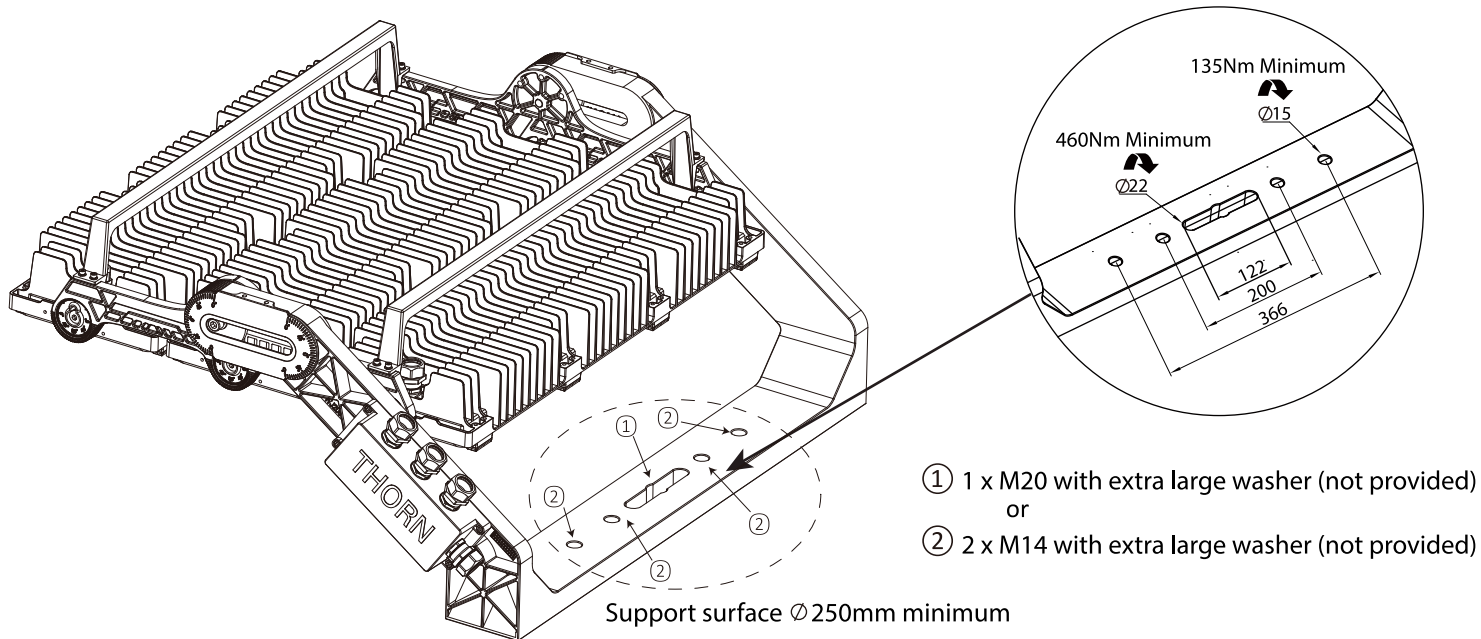
GT-OPT 288L



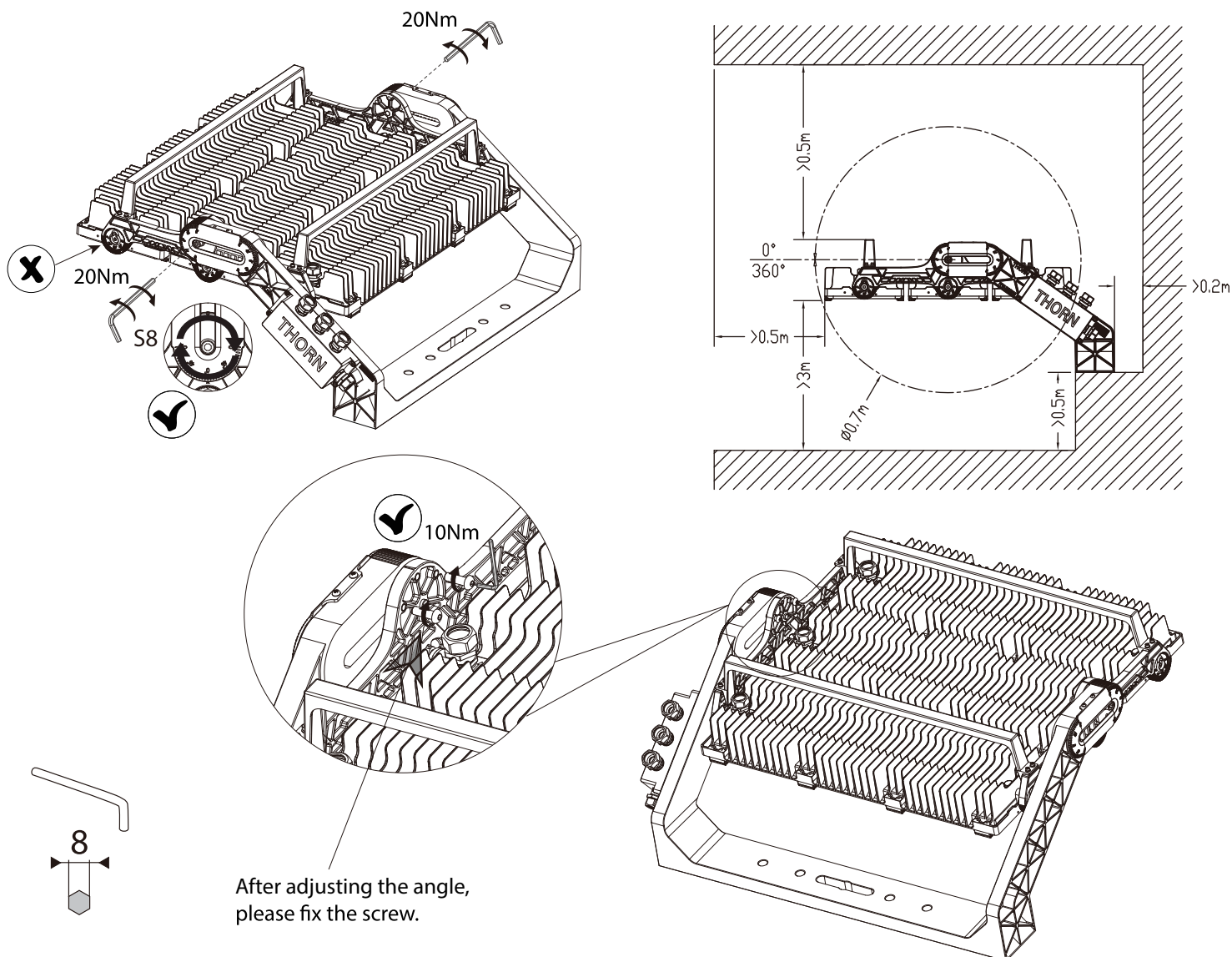
GT-OPT 432L

TYPE	SIZE	N.W.
GT-OPT 144L	L355xW130xH100	3.5KG
GT-OPT 288L	L355xW160xH176	6.8KG
GT-OPT 432L	L355xW185xH180	9.3KG

# SURFACE MOUNTING

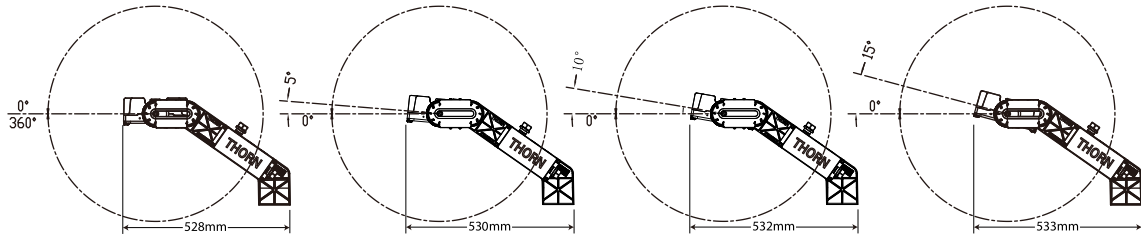


# TILT ADJUSTMENT

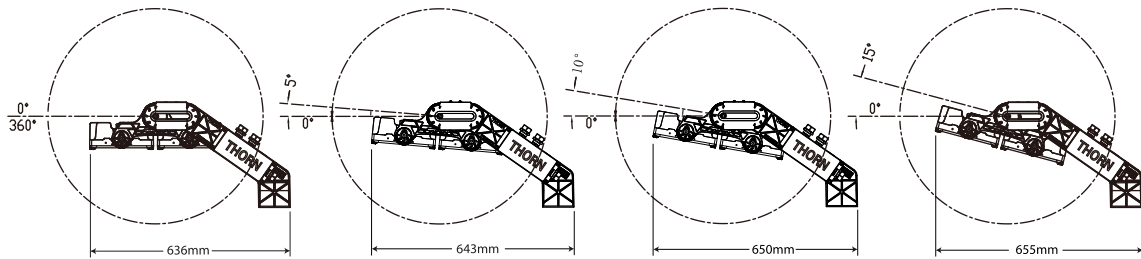


# WINDAGE VALUE

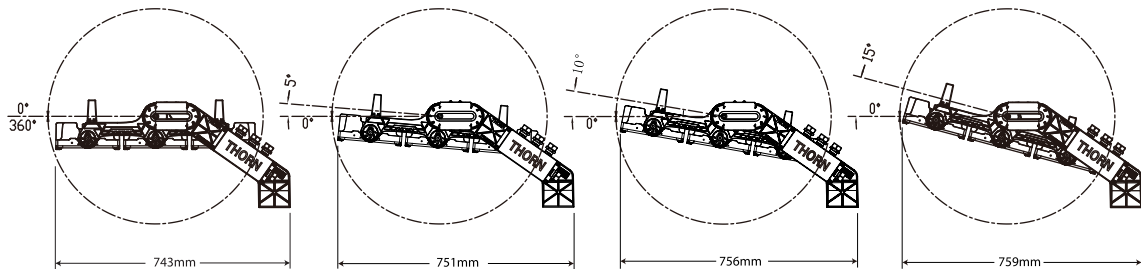
CHAMPION PRO G3 144L →



CHAMPION PRO G3 288L →

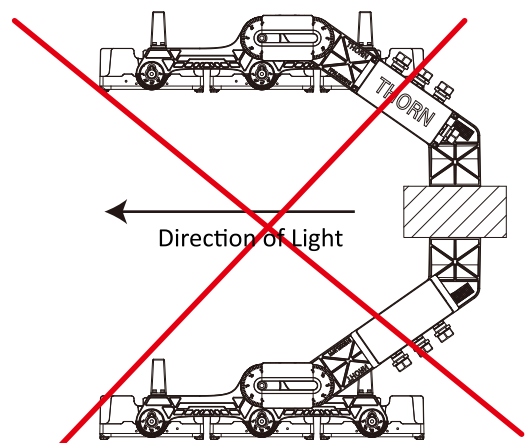
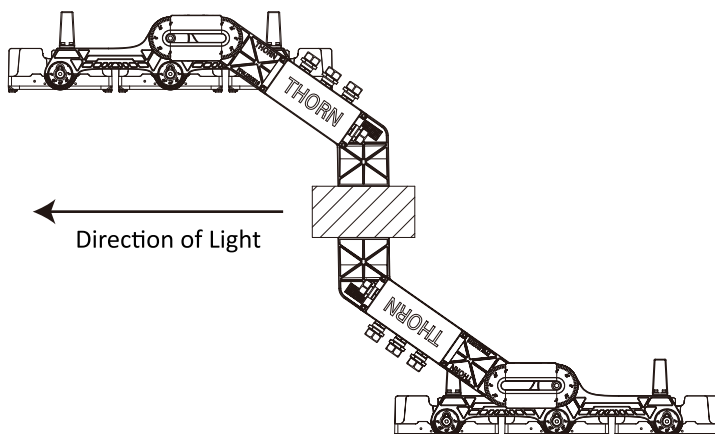


CHAMPION PRO G3 432L →

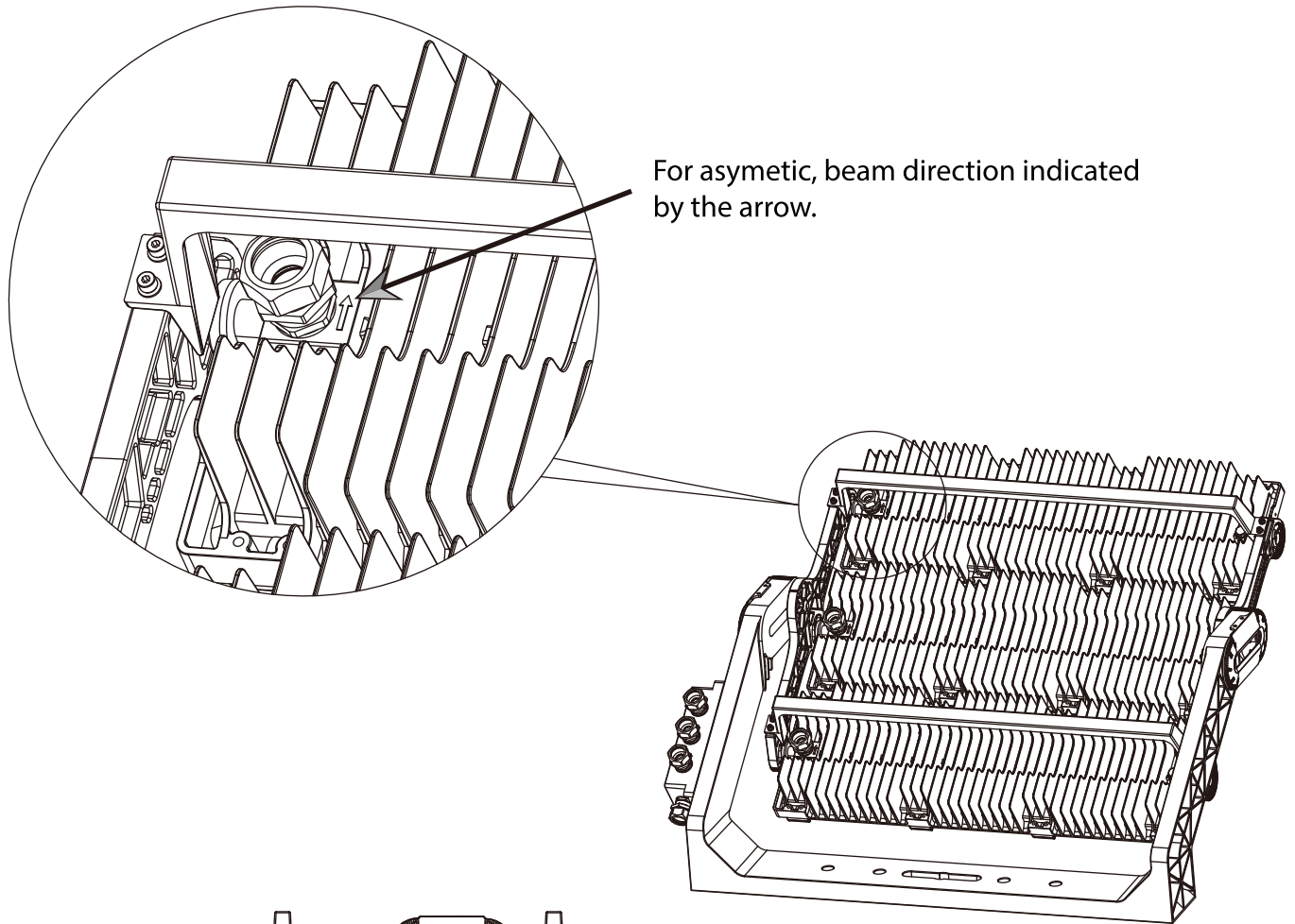


	Sc X 0°	Sc X 5°	Sc X 10°	Sc X 15°	WEIGHT
CHAMPION PRO G3 144L	0.078m <sup>2</sup>	0.069m <sup>2</sup>	0.079m <sup>2</sup>	0.106m <sup>2</sup>	19.8KG
CHAMPION PRO G3 288L	0.078m <sup>2</sup>	0.081m <sup>2</sup>	0.097m <sup>2</sup>	0.146m <sup>2</sup>	25.8KG
CHAMPION PRO G3 432L	0.092m <sup>2</sup>	0.116m <sup>2</sup>	0.148m <sup>2</sup>	0.200m <sup>2</sup>	31.9KG

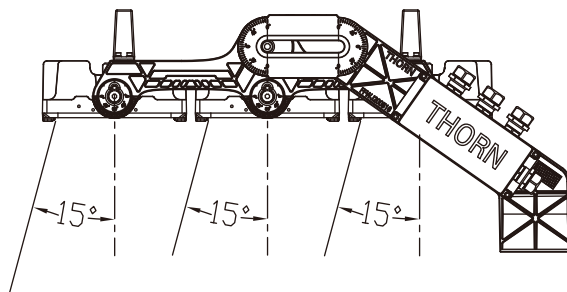
## OVER AND UNDER-SLINGING



# LIGHT BEAM DIRECTION

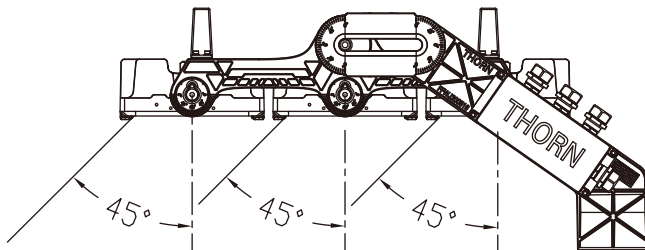


A15



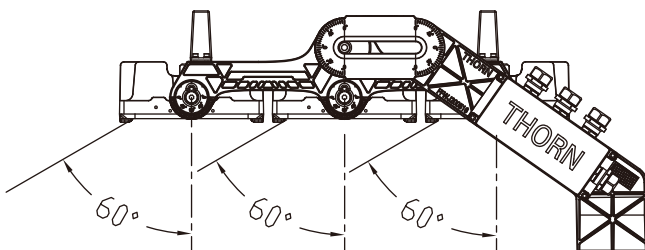
15° asymmetric

A45



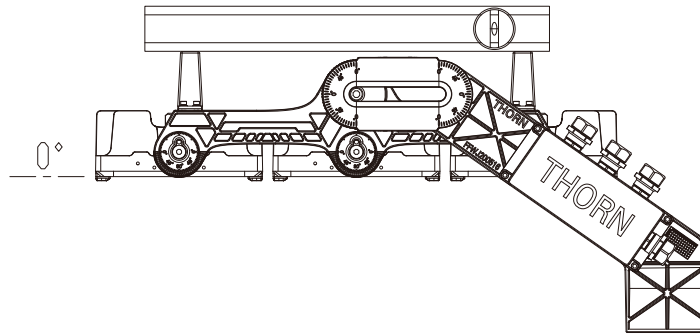
45° asymmetric

A60



60° asymmetric

# AIMING AND TILTING LUMINAIRES

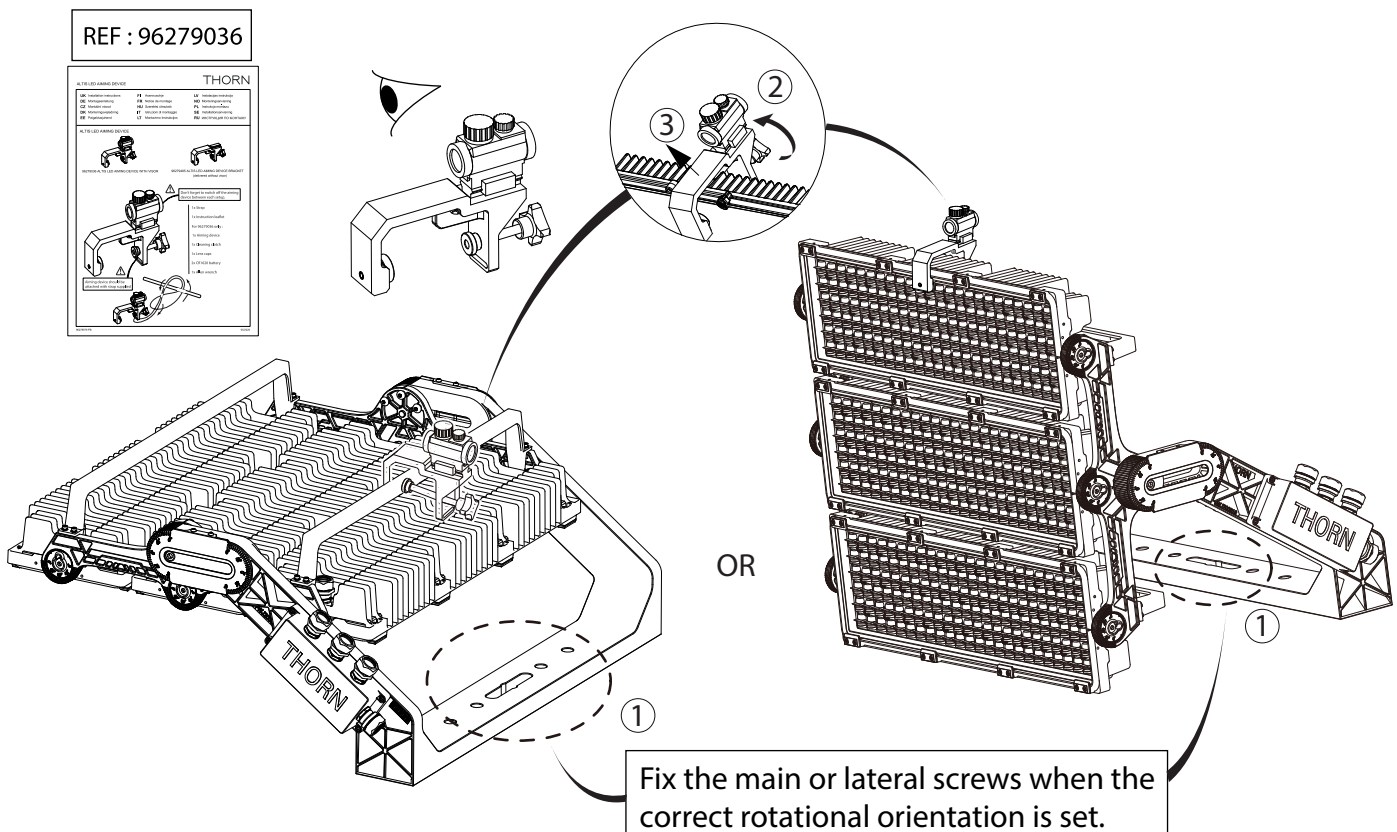


There are several ways that floodlights can be aimed. As best practice, floodlights should be installed on the poles/cross-arms and with poles erected in their final installation positions before any aiming is done. There are two key parts to the aiming process; the first is the horizontal adjustment using ground markers as reference points, the second is the tilt angle of the floodlight.

Markers should be placed on the ground at specific reference points in accordance with the lighting design. Use an aiming scope (to be ordered separately) which is to be securely attached to the top of the floodlight or support bracket as depicted below. Alternatively the heat sink fins can also be used as an aiming guide if a scope is not accessible.

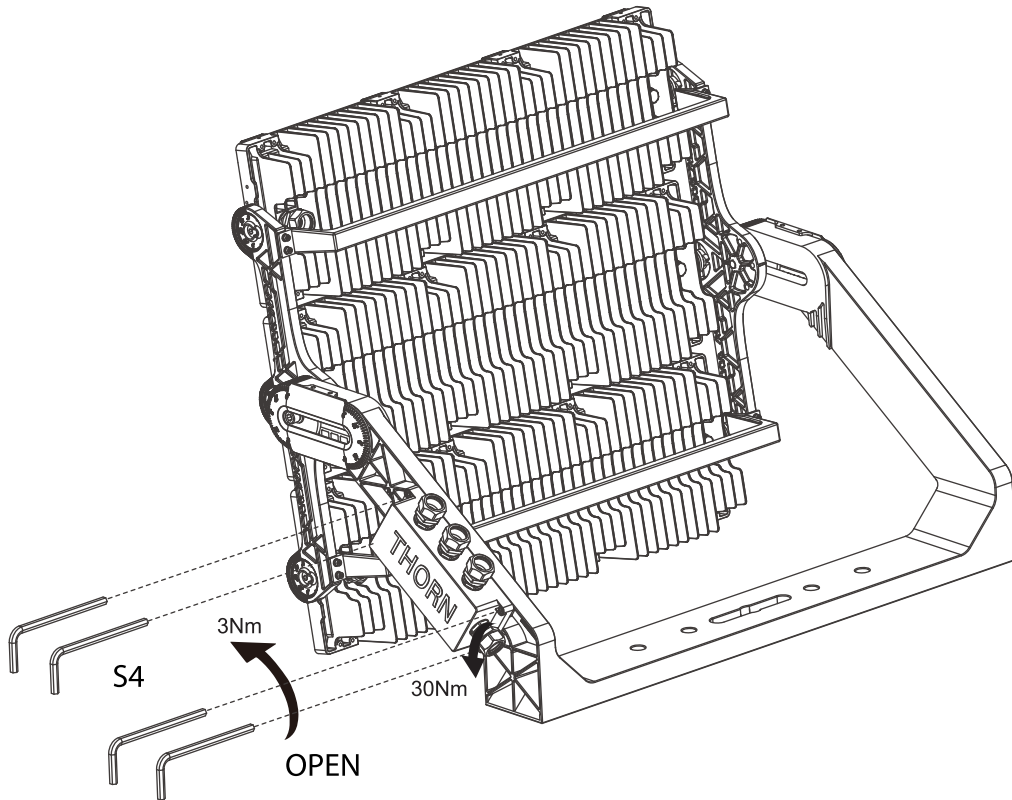
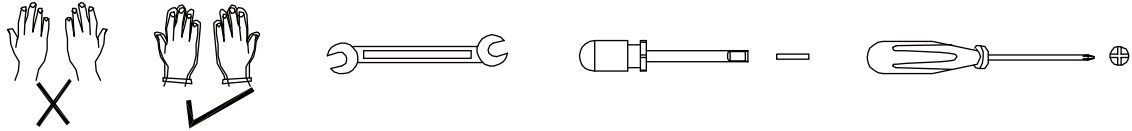
Installation bracket and tilt angle bolts will need to be slightly loosened to allow the floodlight to be manoeuvred for aiming, but remain tight enough to ensure the floodlight is securely held in place. Once the floodlight is aligned with the marker point on the ground, tighten all bracket bolts to 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 or support bracket. Note that individual LED modules should not be tilted. Floodlights with 2 or 3 modules should always be aligned in the same flat position which is 0° glass parallel to the ground. 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.

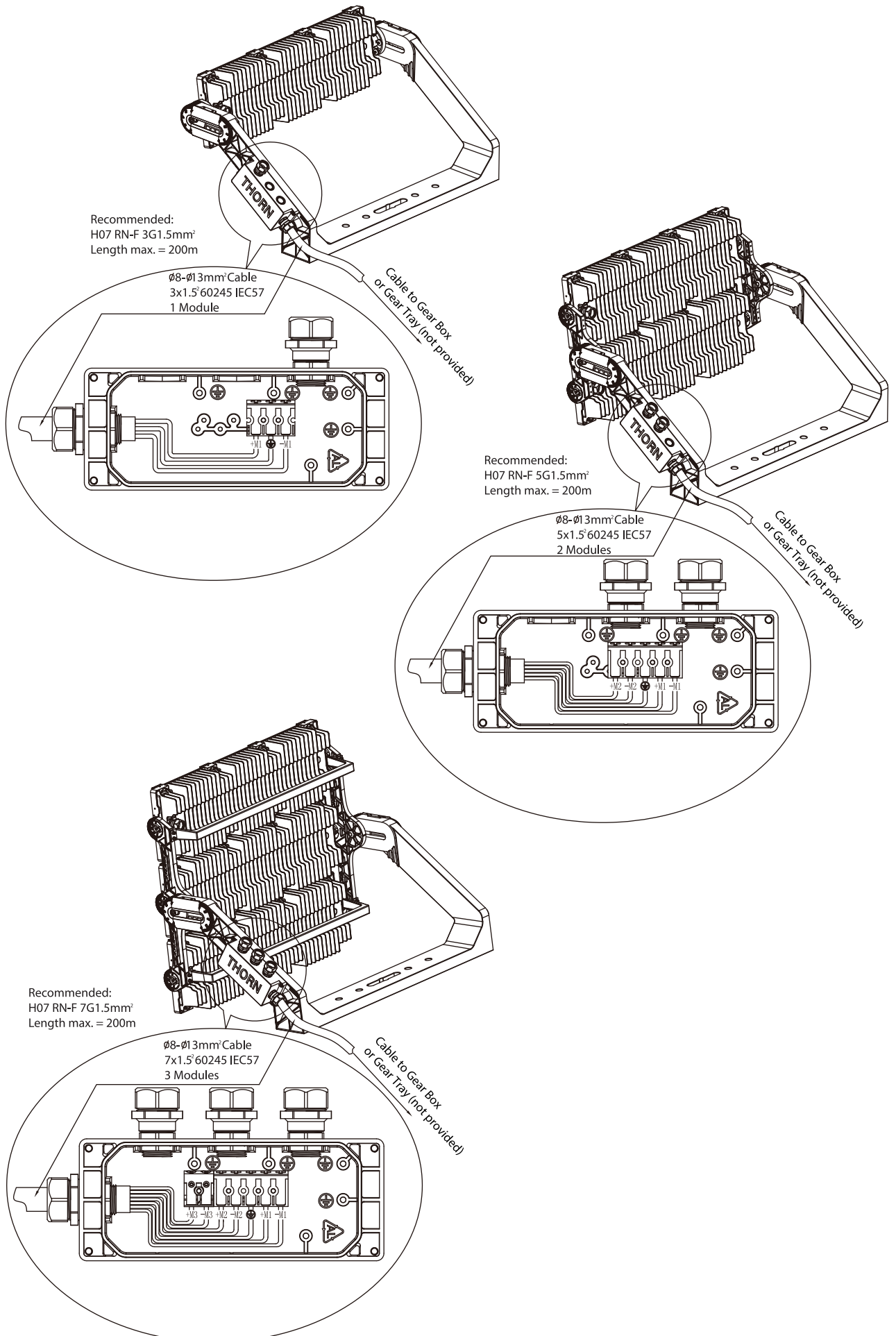


# ELECTRICAL CONNECTIONS

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

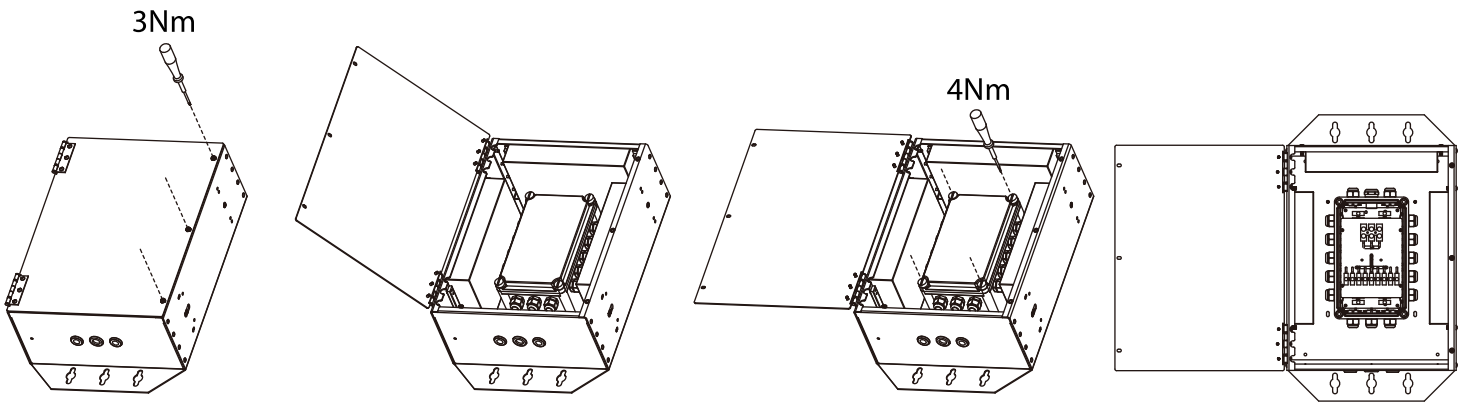


# CONNECTION TO MODULE(S)





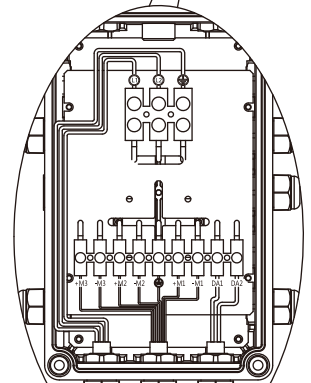
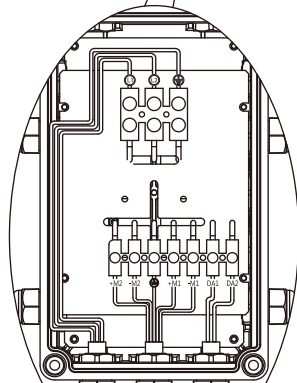
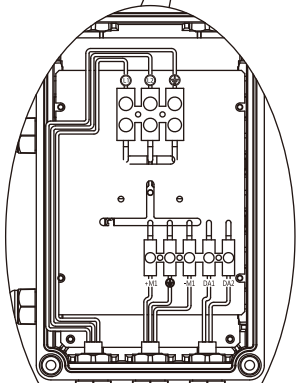
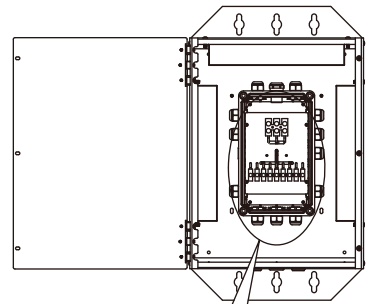
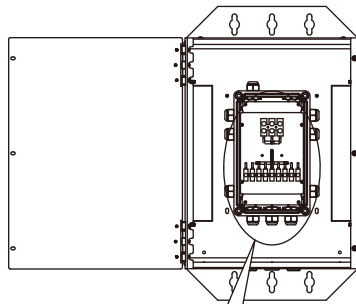
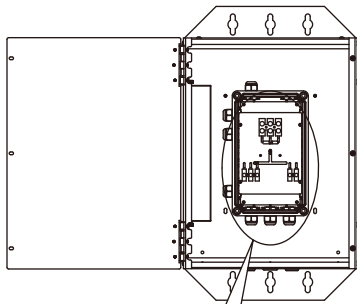
# GB CONNECTION DIAGRAM



GB CHAMP G3 IP66 144L

GB CHAMP G3 IP66 288L

GB CHAMP G3 IP66 432L



$\varnothing 8\text{-}\varnothing 13\text{mm}^2$  Cable  
 3x1.5'60245 IEC57  
 $\varnothing 8\text{-}\varnothing 13\text{mm}^2$  Cable  
 3x1.5'60245 IEC57  
 1 Module  
 Recommended:  
 H07 RN-F 3G1.5mm  
 Length max. = 200m

$\varnothing 8\text{-}\varnothing 13\text{mm}^2$  Cable  
 2x1.5'60245 IEC57  
 Cable to AC  
 Cable to luminaire  
 Cable to DALI

$\varnothing 8\text{-}\varnothing 13\text{mm}^2$  Cable  
 3x1.5'60245 IEC57  
 $\varnothing 8\text{-}\varnothing 13\text{mm}^2$  Cable  
 5x1.5'60245 IEC57  
 2 Modules  
 Recommended:  
 H07 RN-F 5G1.5mm  
 Length max. = 200m

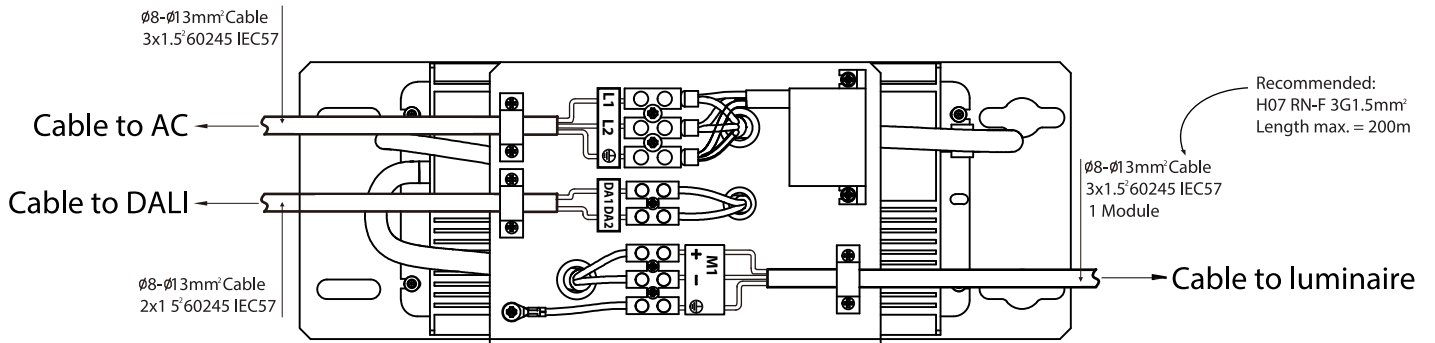
$\varnothing 8\text{-}\varnothing 13\text{mm}^2$  Cable  
 2x1.5'60245 IEC57  
 Cable to AC  
 Cable to luminaire  
 Cable to DALI

$\varnothing 8\text{-}\varnothing 13\text{mm}^2$  Cable  
 3x1.5'60245 IEC57  
 $\varnothing 8\text{-}\varnothing 13\text{mm}^2$  Cable  
 7x1.5'60245 IEC57  
 3 Modules  
 Recommended:  
 H07 RN-F 7G1.5mm  
 Length max. = 200m

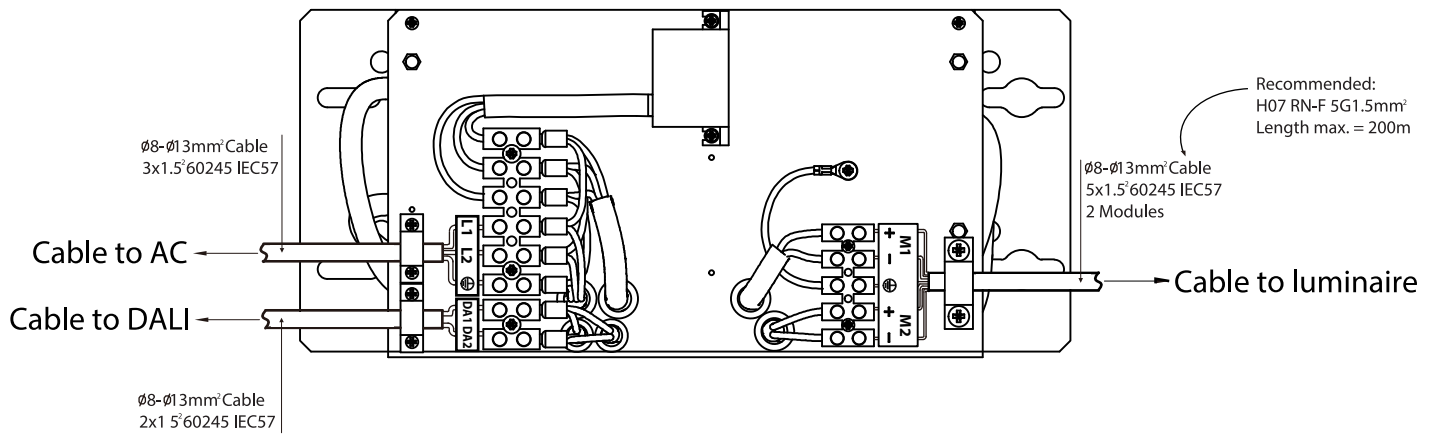
$\varnothing 8\text{-}\varnothing 13\text{mm}^2$  Cable  
 2x1.5'60245 IEC57  
 Cable to AC  
 Cable to luminaire  
 Cable to DALI

# GT CONNECTION DIAGRAM

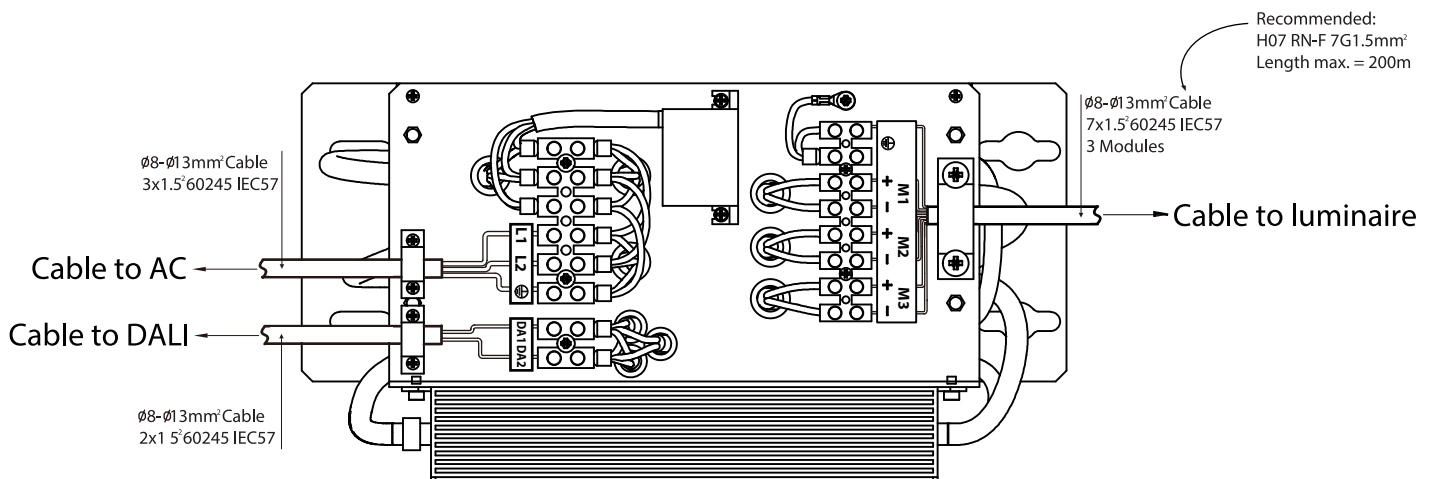
## GT-OPT 144L



## GT-OPT 288L



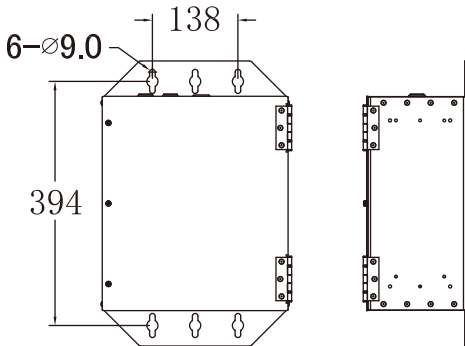
## GT-OPT 432L



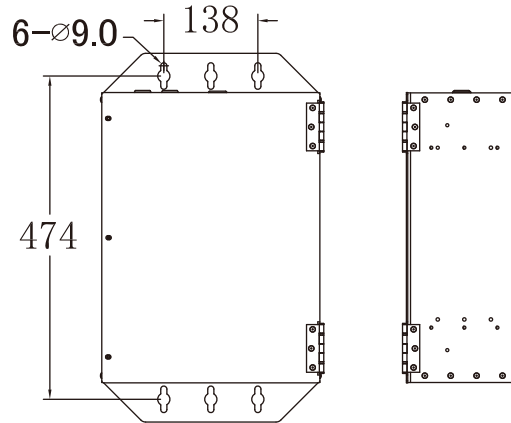
# GUIDELINE FOR INSTALLING CONTROL GEAR

IP66 gear boxes for external mounting.

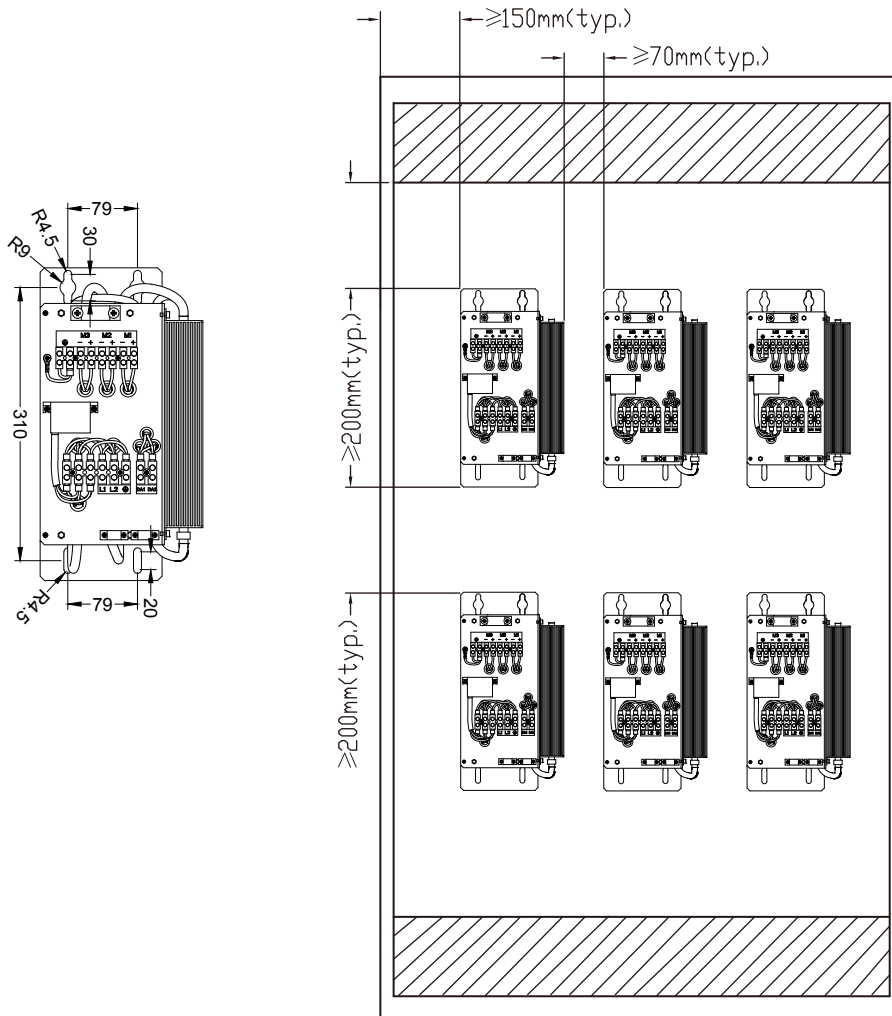
GB CHAMP G3 IP66 144L



GB CHAMP G3 IP66 288L & 432L



IP20 gear trays for mounting inside poles or electrical cabinets.



# CHAMPION PRO G3 CONTROL GEAR

## CIRCUIT BREAKER RECOMMENDATION / 200-440Vac MODELS

GB/GT CHAMP G3 144L (1 module):

V in Nominal	I at Full Load (A)	Inrush Current Data		# Drivers for each Circuit Breaker											
		I peak (A)	Half Value Time (us)	Type B 10A	Type B 16A	Type B 20A	Type B 25A	Type C 10A	Type C 16A	Type C 20A	Type C 25A	Type D 10A	Type D 16A	Type D 20A	Type D 25A
240Vac	2.1A	18	1100	3	5	6	8	3	5	6	8	3	5	6	8
415Vac	1.2A	32	920	1	3	3	4	3	5	6	7	5	8	10	13

V in Nominal	I at Full Load (A)	Inrush Current Data		# Drivers for each Circuit Breaker											
		I peak (A)	Half Value Time (us)	Type B 32A	Type B 40A	Type B 50A	Type B 63A	Type C 32A	Type C 40A	Type C 50A	Type C 63A	Type D 32A	Type D 40A	Type D 50A	Type D 63A
240Vac	2.1A	18	1100	11	13	17	21	11	13	17	21	11	13	17	21
415Vac	1.2A	32	920	6	7	9	11	10	12	15	19	16	21	26	33

GB/GT CHAMP G3 288L (2 modules):

V in Nominal	I at Full Load (A)	Inrush Current Data		# Drivers for each Circuit Breaker											
		I peak (A)	Half Value Time (us)	Type B 10A	Type B 16A	Type B 20A	Type B 25A	Type C 10A	Type C 16A	Type C 20A	Type C 25A	Type D 10A	Type D 16A	Type D 20A	Type D 25A
240Vac	4.2A	36	1100	1	2	3	4	1	2	3	4	1	2	3	4
415Vac	2.4A	64	920	0	1	1	2	1	2	3	3	2	4	5	6

V in Nominal	I at Full Load (A)	Inrush Current Data		# Drivers for each Circuit Breaker											
		I peak (A)	Half Value Time (us)	Type B 32A	Type B 40A	Type B 50A	Type B 63A	Type C 32A	Type C 40A	Type C 50A	Type C 63A	Type D 32A	Type D 40A	Type D 50A	Type D 63A
240Vac	4.2A	36	1100	5	6	8	10	5	6	8	10	5	6	8	10
415Vac	2.4A	64	920	3	3	4	5	5	6	7	9	8	10	13	16

GB/GT CHAMP G3 432L (3 modules):

V in Nominal	I at Full Load (A)	Inrush Current Data		# Drivers for each Circuit Breaker											
		I peak (A)	Half Value Time (us)	Type B 10A	Type B 16A	Type B 20A	Type B 25A	Type C 10A	Type C 16A	Type C 20A	Type C 25A	Type D 10A	Type D 16A	Type D 20A	Type D 25A
240Vac	6.3A	54	1100	0	1	2	2	1	1	2	2	1	1	2	2
415Vac	3.6A	96	920	0	1	1	1	1	1	2	2	1	2	3	4

V in Nominal	I at Full Load (A)	Inrush Current Data		# Drivers for each Circuit Breaker											
		I peak (A)	Half Value Time (us)	Type B 32A	Type B 40A	Type B 50A	Type B 63A	Type C 32A	Type C 40A	Type C 50A	Type C 63A	Type D 32A	Type D 40A	Type D 50A	Type D 63A
240Vac	6.3A	54	1100	3	4	5	7	3	4	5	7	3	4	5	7
415Vac	3.6A	96	920	2	2	3	3	3	4	5	6	5	7	8	11

\*\* Control gear is supplied with Type 2, 3 surge protection device (SPD).  
 Suitable SPD should be considered for the whole installation to ensure lighting equipment is adequately protected (not provided by THORN).