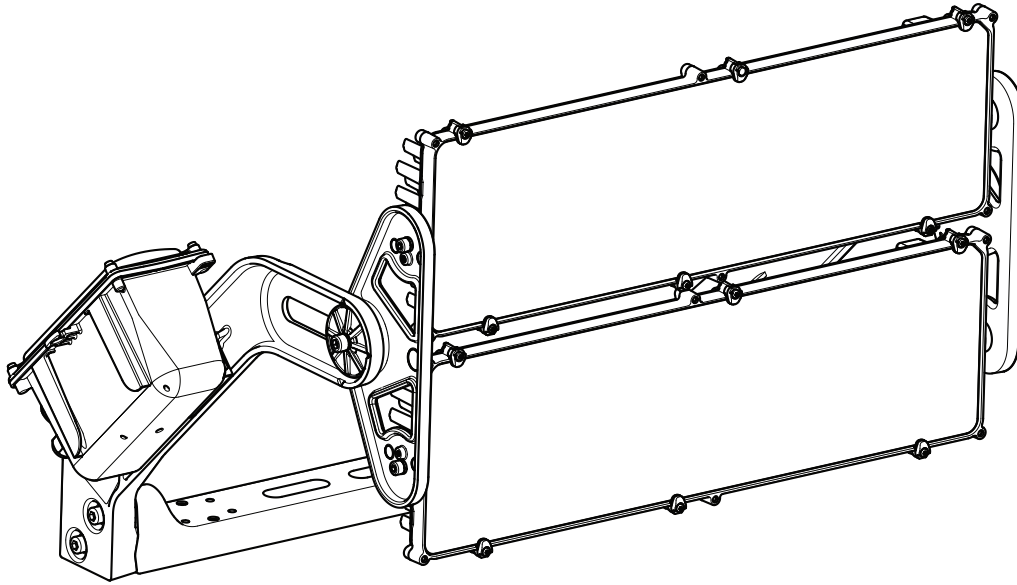


UK Installation instructions**DE** Montageanleitung**CZ** Montážní návod**DK** Monteringsvejledning**EE** Paigaldusjuhend**FI** Asennusohje**FR** Notice de montage**HU** Szerelési útmutató**IT** Istruzioni di montaggio**LT** Montavimo Instrukcijos**LV** Instalācijas instrukcija**NO** Monteringsanvisning**PL** Instrukcja montażu**SE** Installationsanvisning**RU** ИНСТРУКЦИЯ ПО МОНТАЖУ

TYPE : ALG4 288L



IP66 / IK08

= 23.7 kg



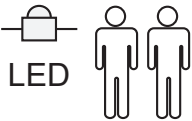
The luminaire with clear optic should be positioned so that prolonged staring into the luminaire at a distance <2m is not expected



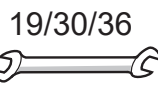
Caution, risk of electric shock
Danger, risque de chocs électriques

Extreme caution : Do not connect any LED CONNECTION wire (high voltage) inside NTC connector !! It could result in a critical failure and damage irreversibly the ALTIS luminaire

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



CLASS I



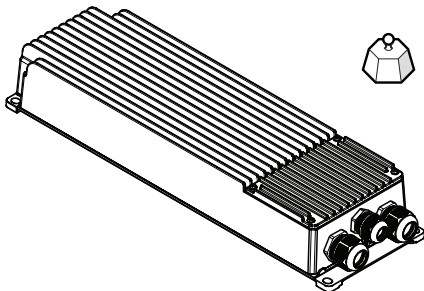
4/8/10

T20/T26

SZ3

1

GEAR BOX : ALG4 GB LE 432L



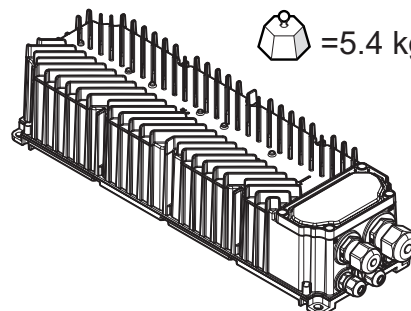
= 5.6 kg

$T_{a_{MIN}} = -40^{\circ}\text{C} / T_{a_{MAX}} = +50^{\circ}\text{C}$
(up to 50°C with driving current derating)

IP66 / IK08

corrosion environment
from C1 to C3 according to
standard ISO9223

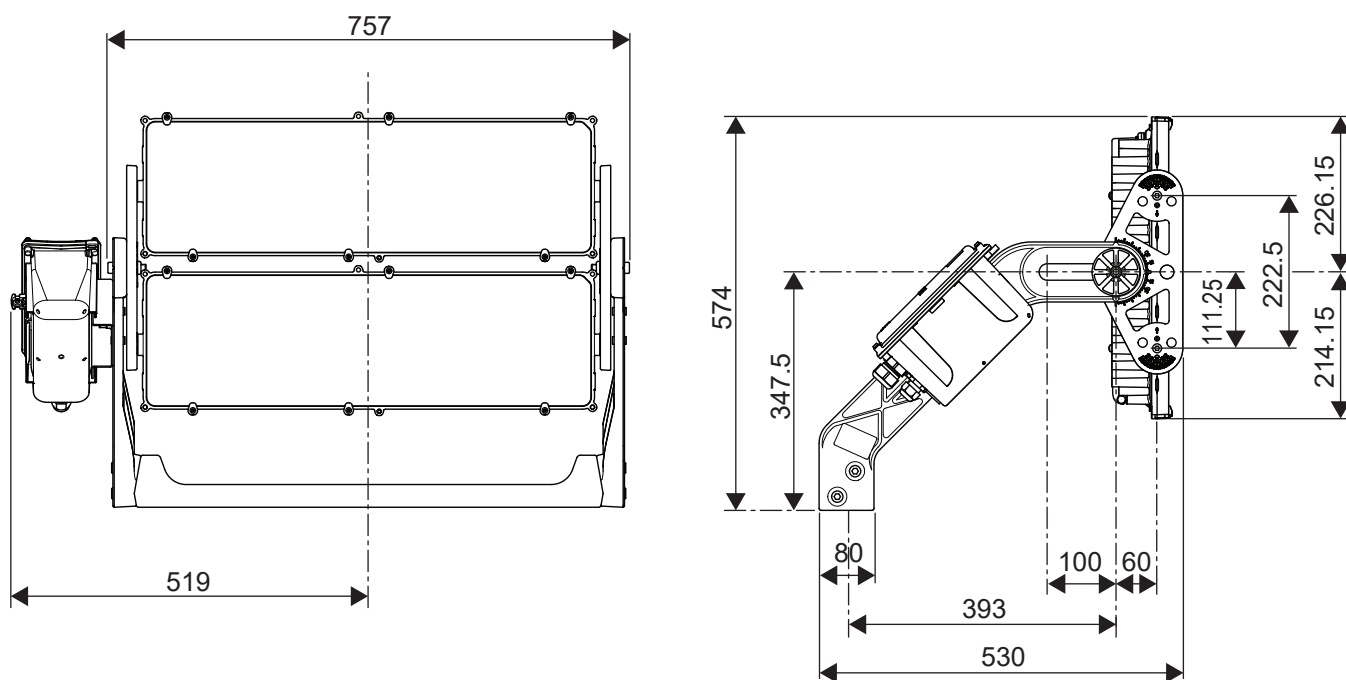
ALG4 GB 288L / ALG4 GB 432L



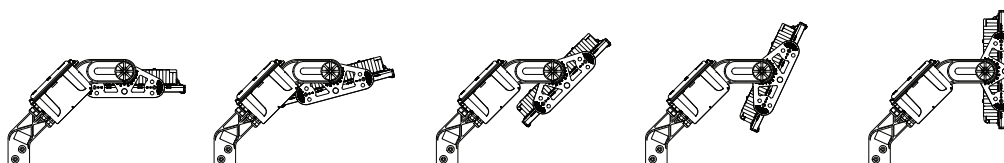
= 5.4 kg / 6.1 kg

$T_{a_{MIN}} = -40^{\circ}\text{C} / T_{a_{MAX}} = +55^{\circ}\text{C}$
(up to 55°C with driving current derating)
IP66 / IK08

ALG4 288L

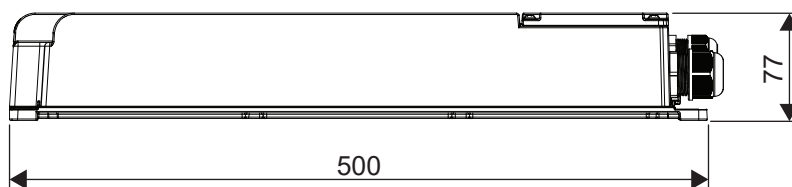
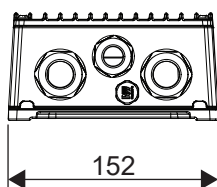


		$S_C X 0^\circ *$	$S_C X 15^\circ *$	$S_C X 45^\circ *$	$S_C X 65^\circ *$	$S_C X 90^\circ *$
ALG5	2 BRICKS	0.152	0.181	0.294	0.347	0.366

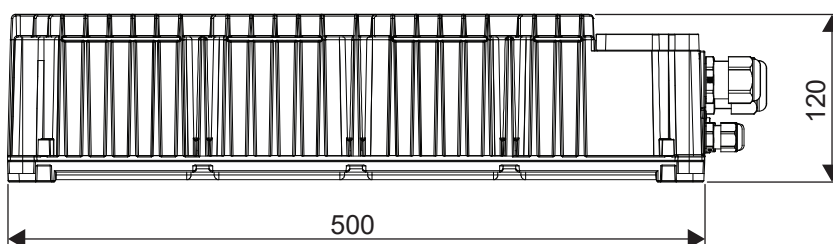
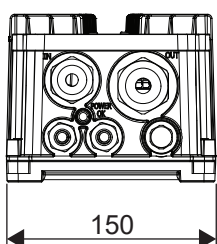


* These data refer to the worst case at indicated angle

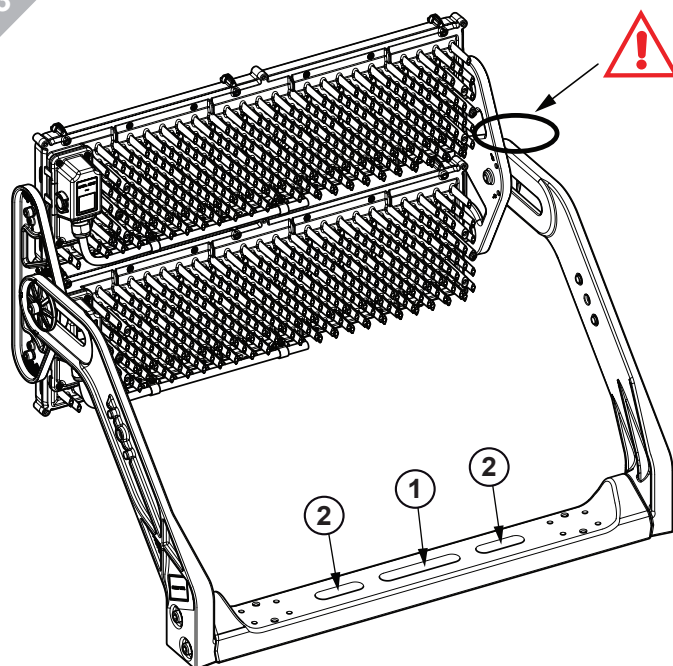
ALG4 GB LE 432L



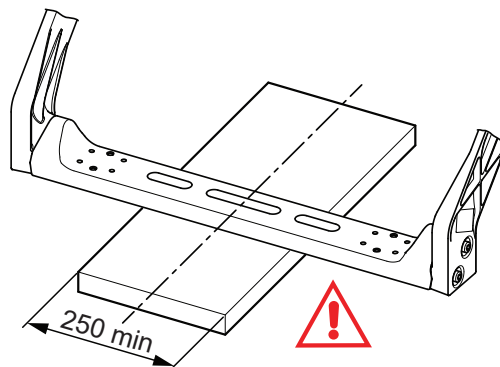
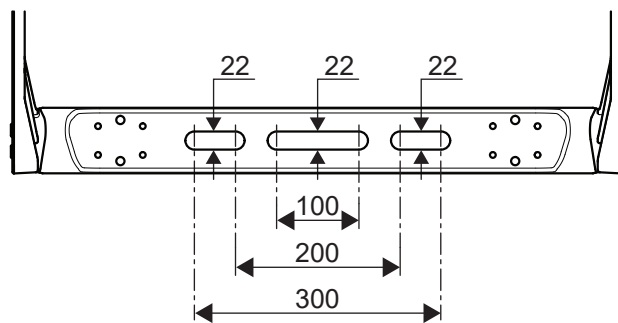
ALG4 GB 288L / ALG4 GB 432L



3

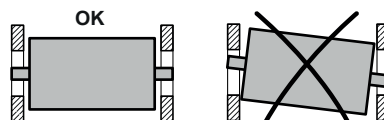
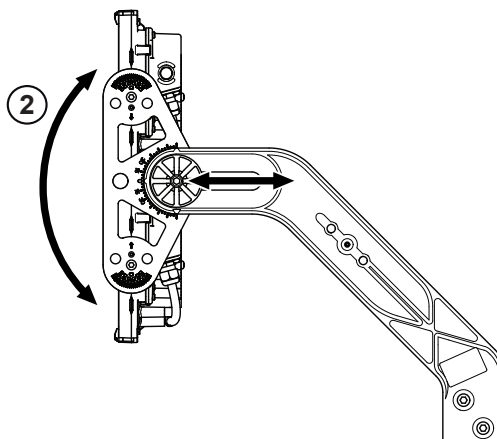
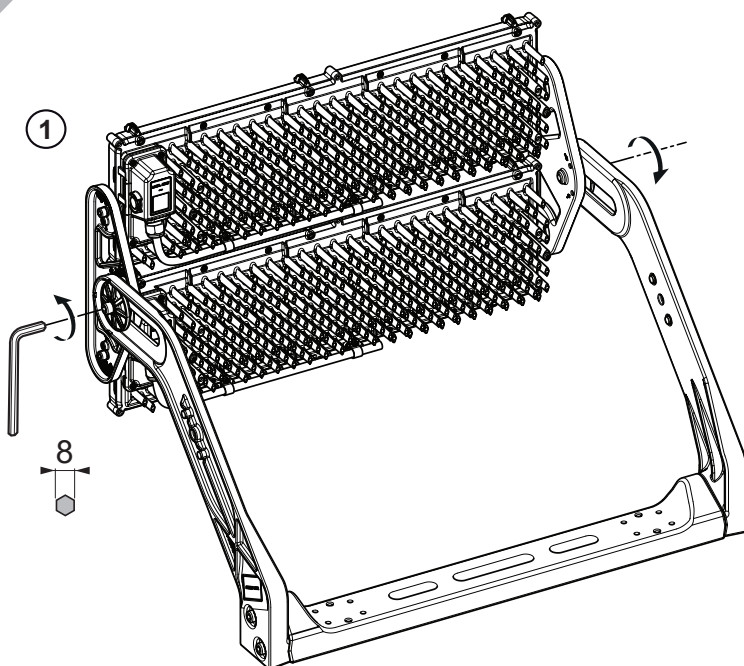


For installation higher >3m
Secure product with retaining cable
attached to the frame (not included in the delivery).
Please refer to local installation norms/regulations.



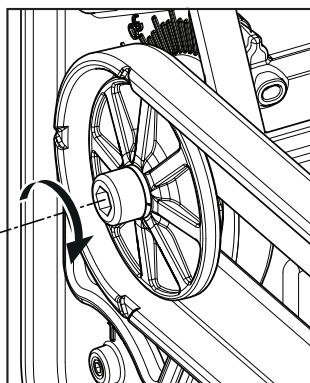
- ① 1xM20 with extra large washer (not provided)
or
② 2xM20 with extra large washer (not provided)

4



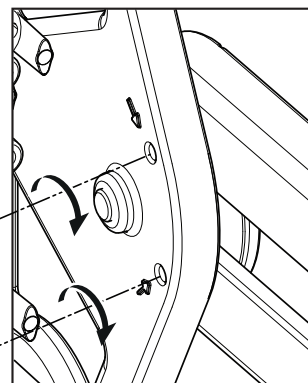
③

25 Nm



④

3.5 Nm



ALG4 288L120 - 740 PST NB MB ANT

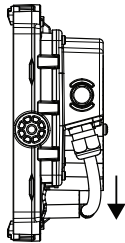
Symmetrical / Elliptical beam
(NB, MB, WB, EB)

TOP BRICK

MID BRICK

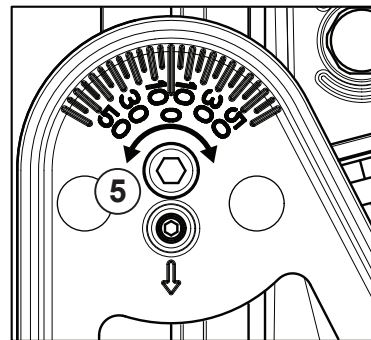
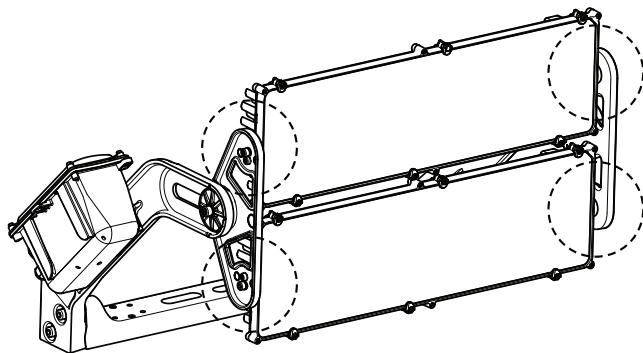
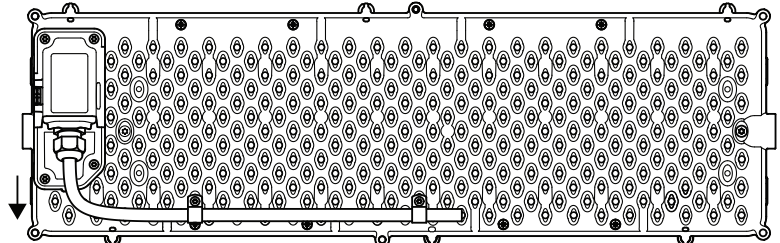
Asymmetrical beam
(A4, A5, A6, A16)

TOP

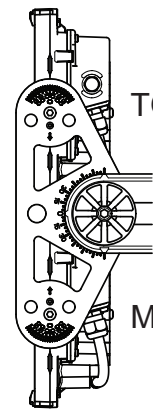


Cable gland

TOP



+/- 60°



TOP brick

MID brick

+/- 60°

17 Nm

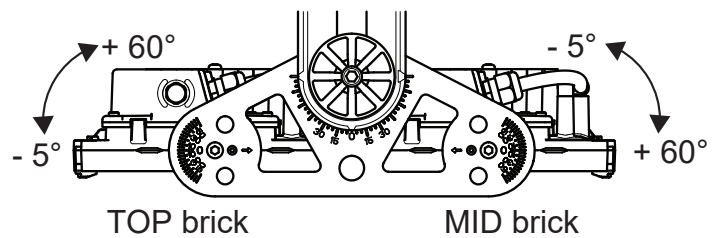
⑥



⑦

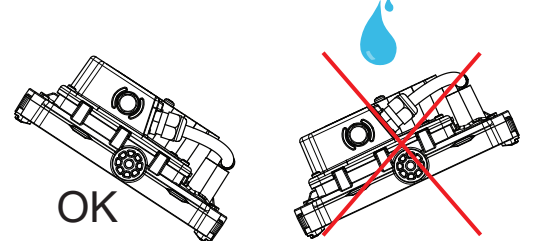
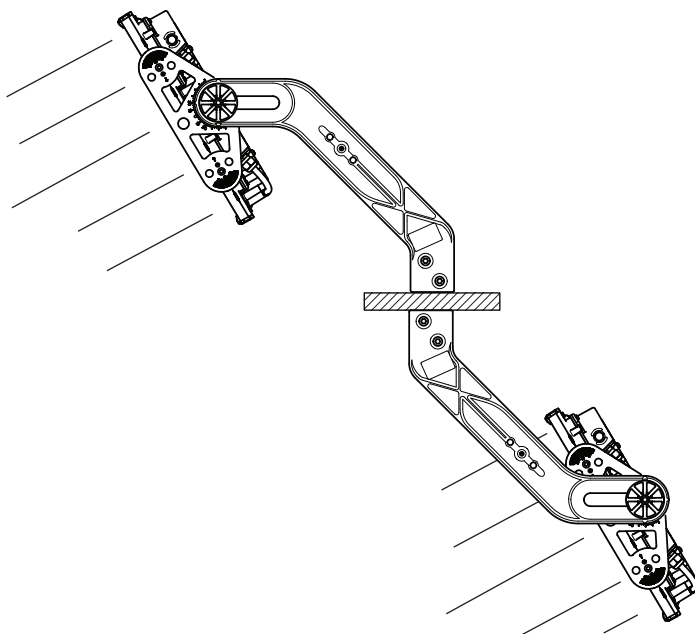
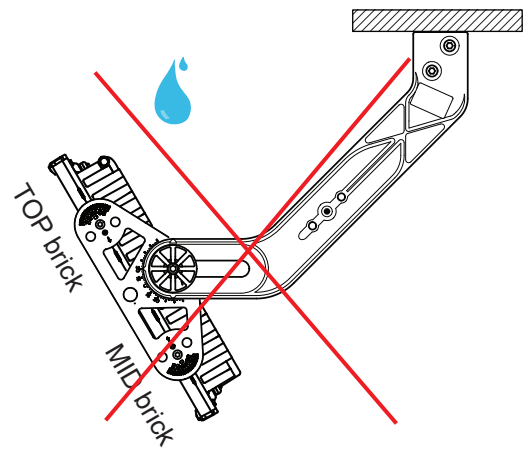
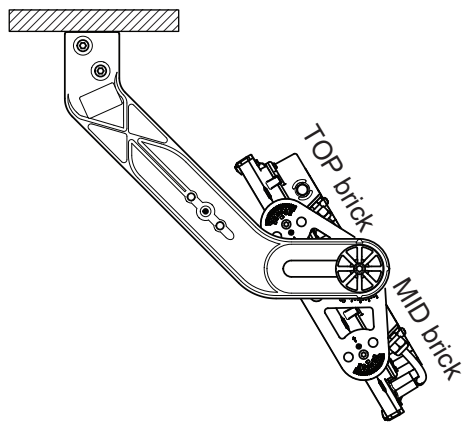
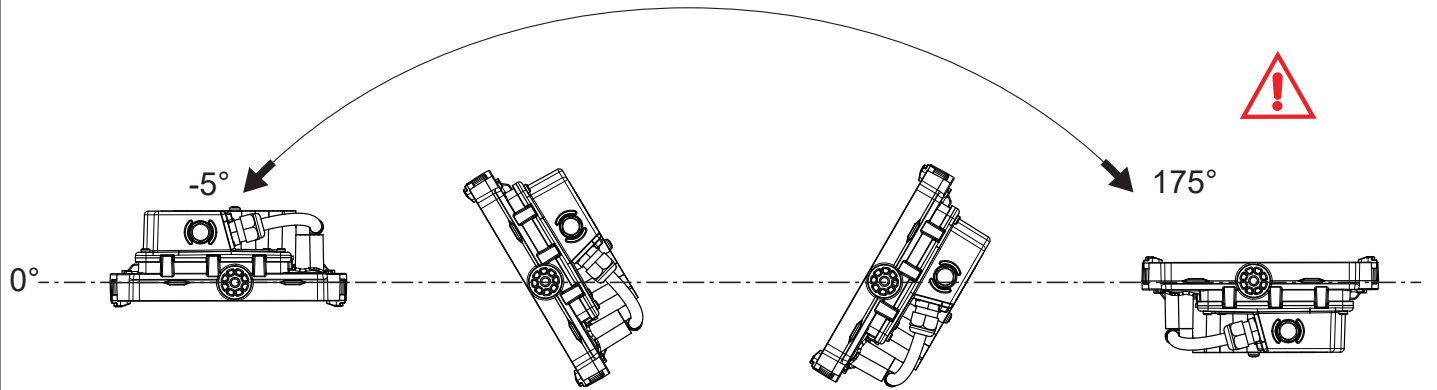
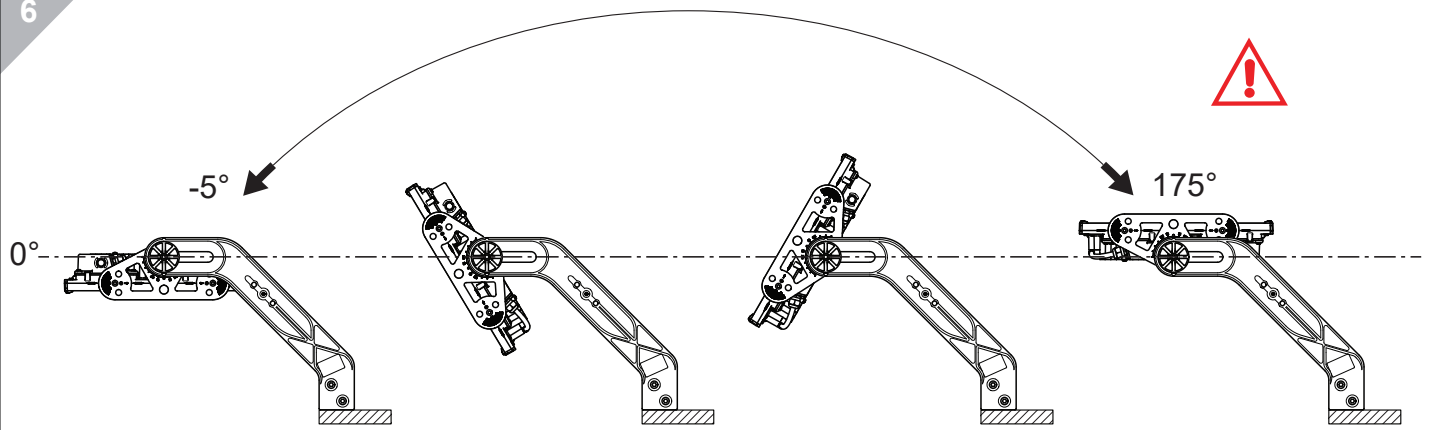


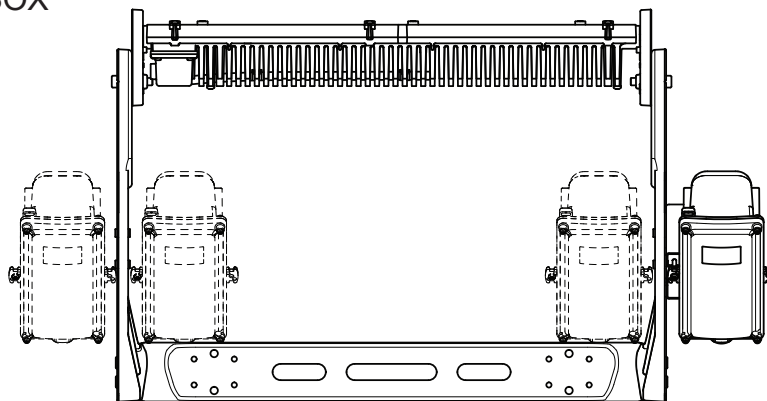
3.5 Nm



TOP brick

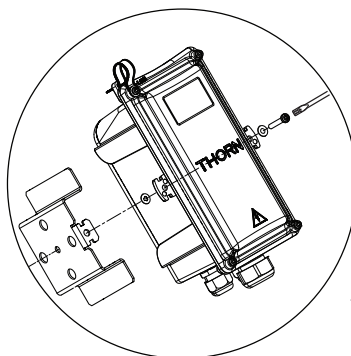
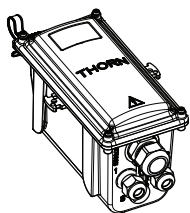
MID brick



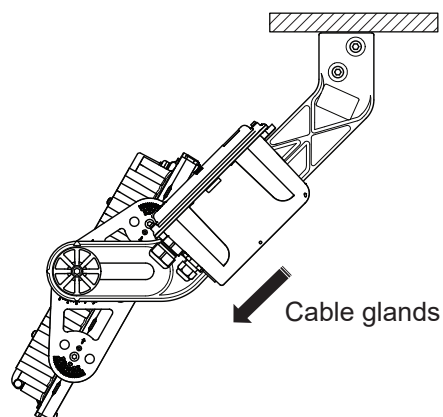
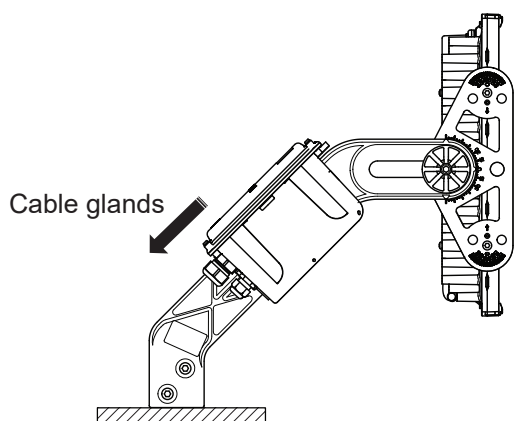
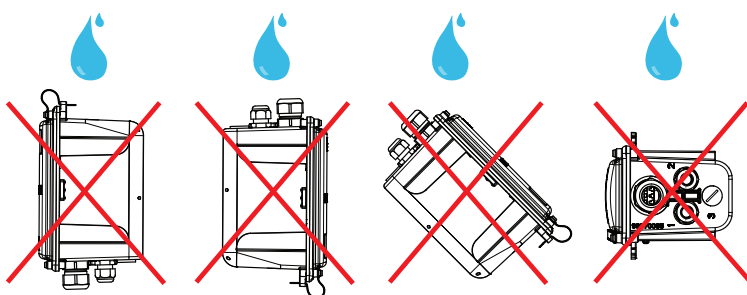
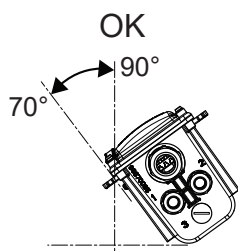
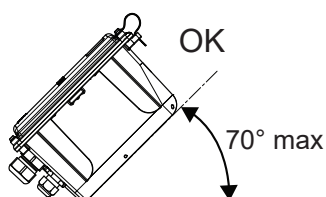
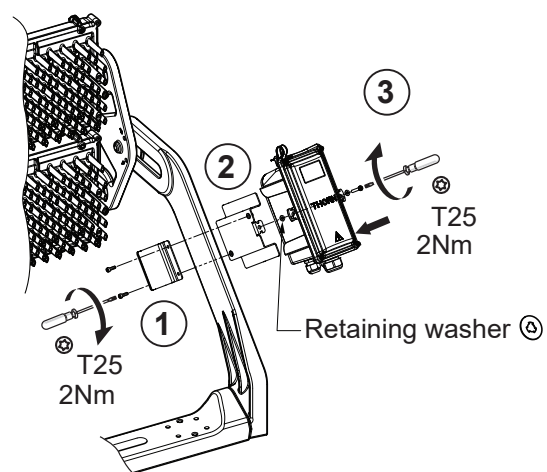
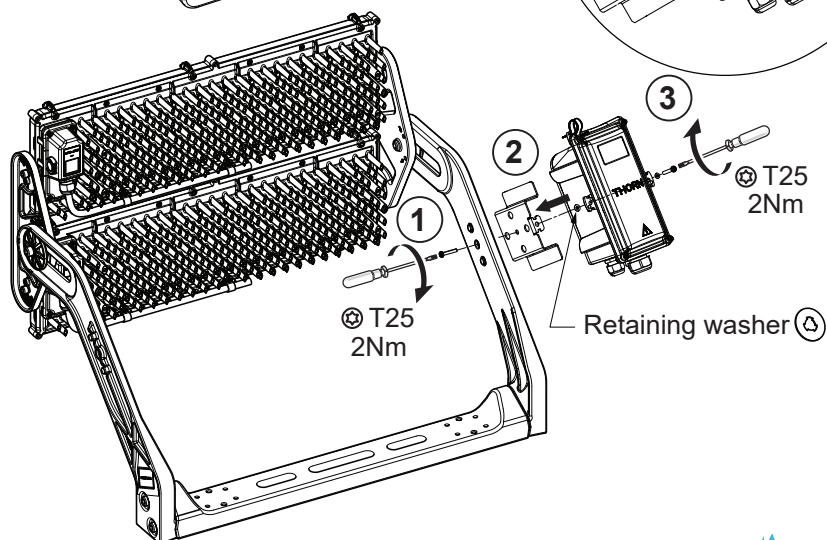
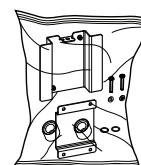


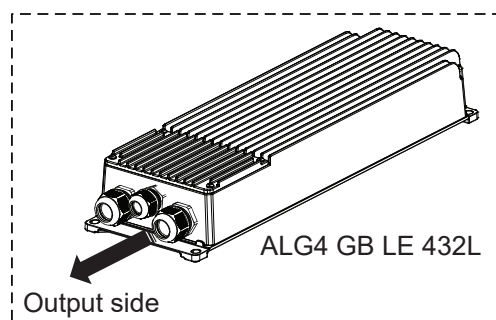
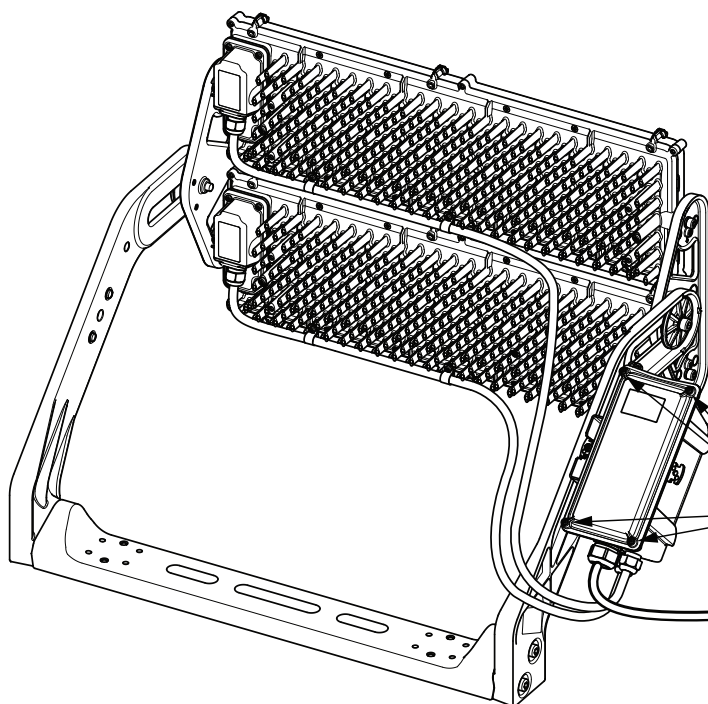
Choose the right position for the connection box

Version G4/G4



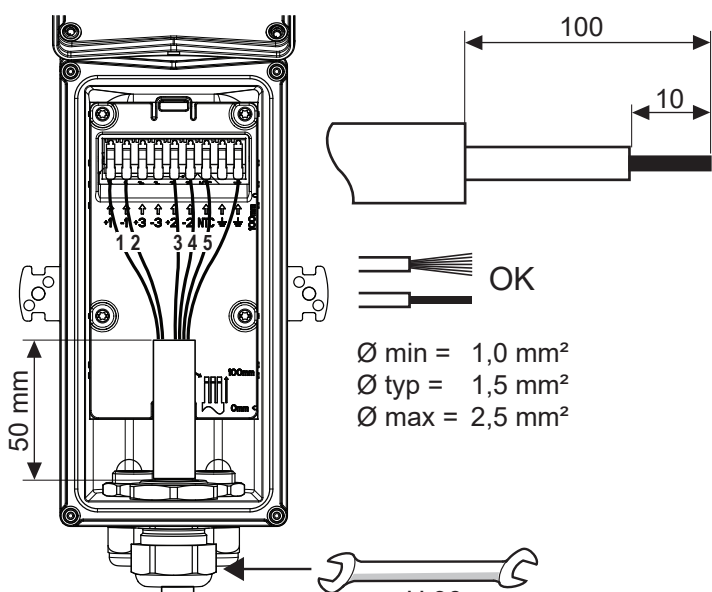
Version G3/G4





T25
2Nm

ALG4 GB 288L / ALG4 GB 432L

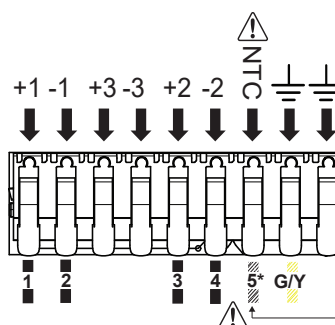


OK

Ø min = 1,0 mm²
Ø typ = 1,5 mm²
Ø max = 2,5 mm²

H 36
3 Nm

CABLE GLAND		
TYPE	ØMin	ØMax
M32	13 mm	21 mm

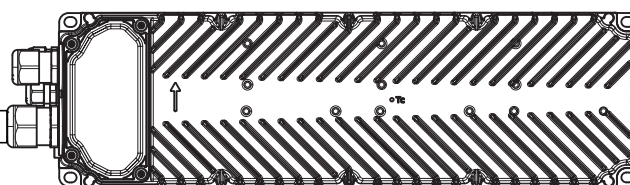


Extreme caution :
Do not connect any LED CONNECTION wire (high voltage) inside NTC connector !! It could result in a critical failure and damage irreversibly the ALTIS luminaire

(5*) Optionnal : NTC connection (thermal monitoring). Cable 9x cores or above is recommended (ex : H07 RN-F 9G1,5mm²)

PINOUT		
Number	Label	Description
1	+1	LED1+Connection (TOP Brick
2	-1	LED1-Connection (TOP Brick
	+3	NO CONNECT
	-3	NO CONNECT
3	+2	LED2+Connection (MID Brick
4	-2	LED2-Connection (MID Brick
5	NTC option	Thermal Measure INPUT
	GND	PROTECTIVE EARTH
	GND	PROTECTIVE EARTH

ALG4 GB 288L / ALG4 GB 432L



ALG4 GB LE 432L

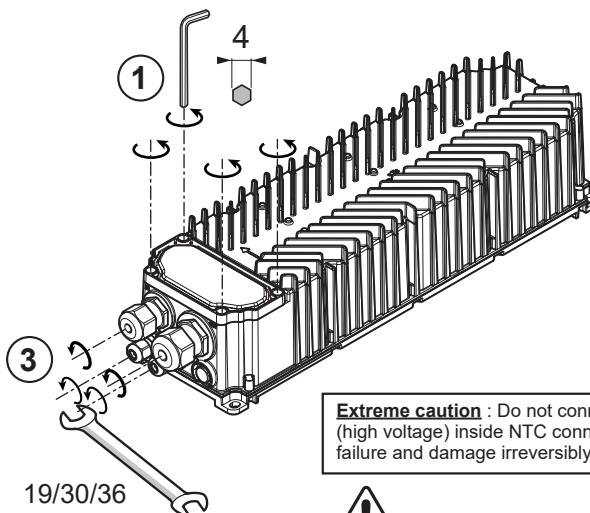
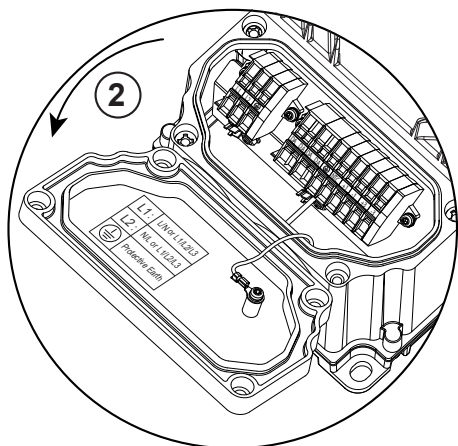
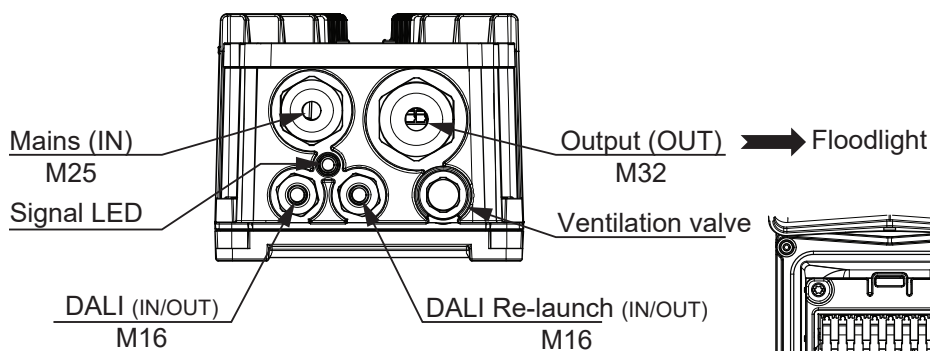
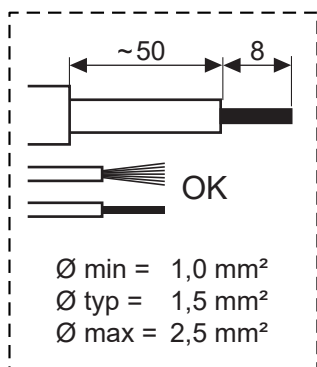


Recommended :
H07 RN-F 7G1,5 mm²

Lenght max = 200 m

Recommended :
H07 RN-F 5G1,5 mm² (Ømin 13mm) (Without NTC)

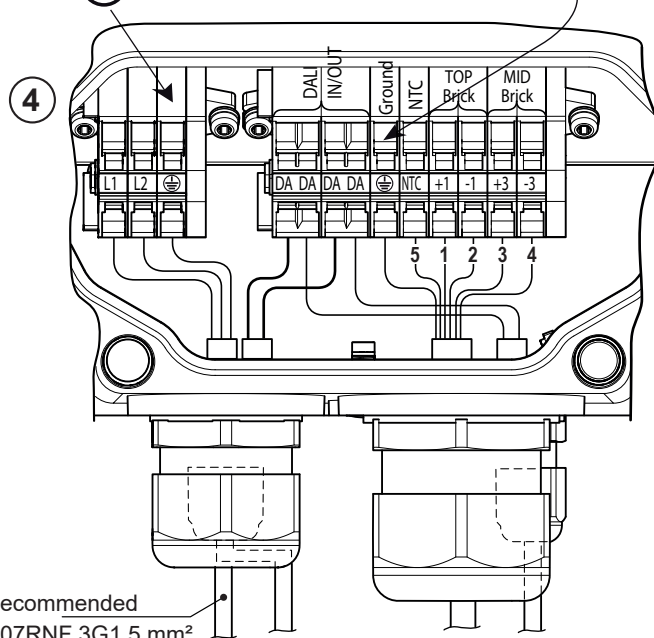
Lenght max = 50 m



Extreme caution : Do not connect any LED CONNECTION wire (high voltage) inside NTC connector !! It could result in a critical failure and damage irreversibly the ALTIS luminaire



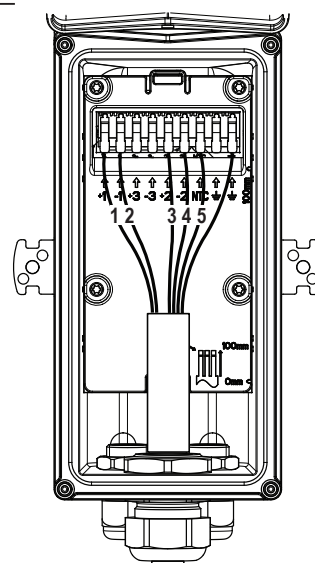
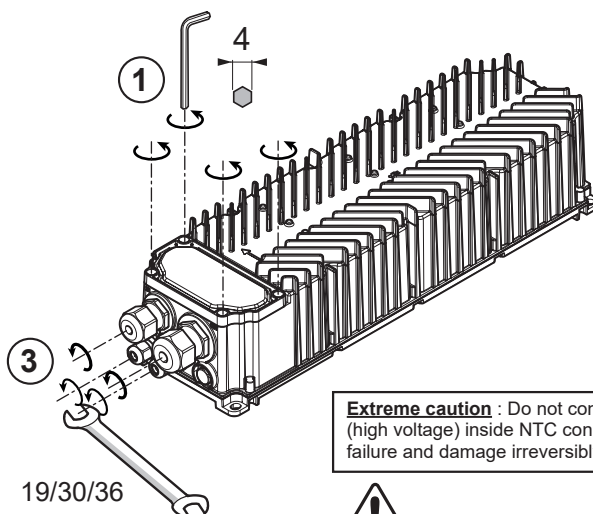
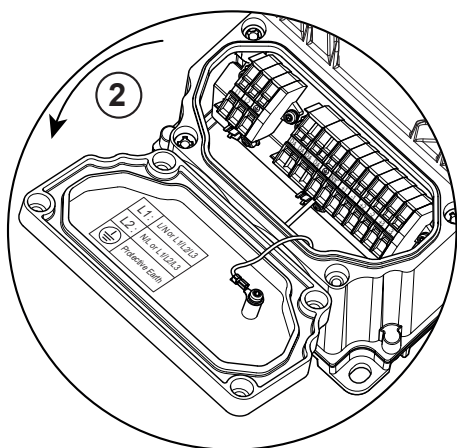
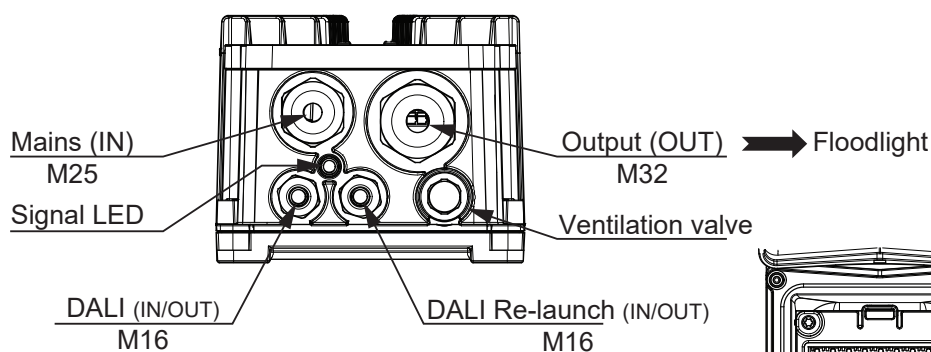
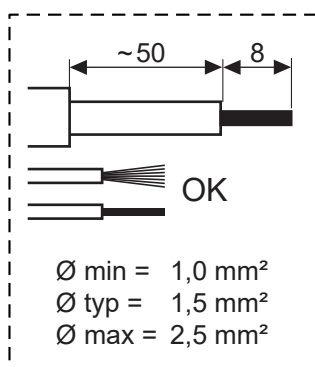
PINOUT		
Number	Label	Description
	L1	AC LINE 1 INPUT
	L2	AC LINE 2 INPUT
	⏏	PROTECTIVE EARTH
	DA+	DALI INPUT
	DA+	DALI RE-LAUNCH
	DA-	DALI INPUT
	DA-	DALI RE-LAUNCH
	⏏	PROTECTIVE EARTH FOR LED MODULE
5	NTC	THERMAL MEASURE INPUT
1	+1	LED1+CONNECTION (TOP Brick)
2	-1	LED1-CONNECTION (TOP Brick)
3	+3	LED3+CONNECTION (MID Brick)
4	-3	LED3-CONNECTION (MID Brick)



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 ↑ Minimum
	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)	

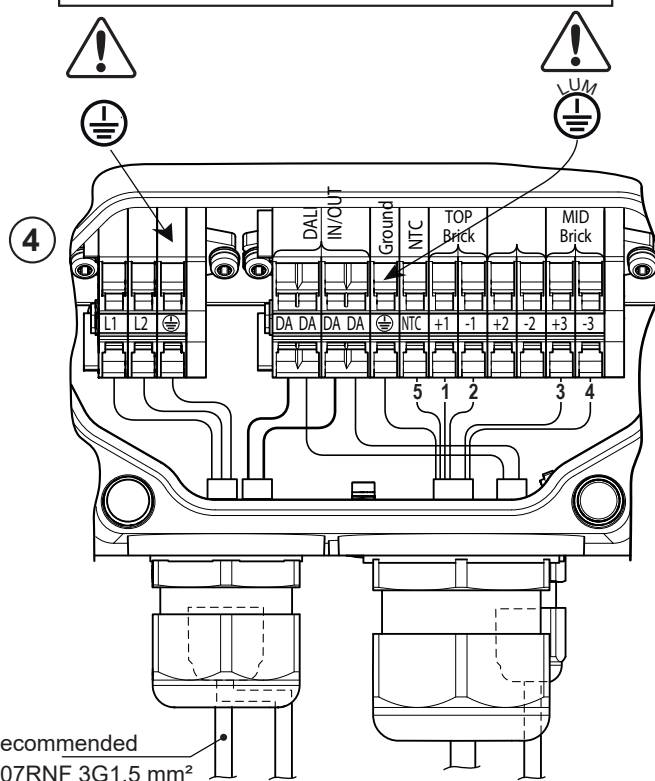
CABLE GLAND		
TYPE	ØMin	ØMax
M16	5 mm	10 mm
M25	10 mm	17 mm
M32	13 mm	21 mm

SEAL REDUCER for GB and FLOOD		
TYPE	ØMin	ØMax
M32	10 mm	16 mm



Extreme caution : Do not connect any LED CONNECTION wire (high voltage) inside NTC connector !! It could result in a critical failure and damage irreversibly the ALTIS luminaire

PINOUT		
Number	Label	Description
	L1	AC LINE 1 INPUT
	L2	AC LINE 2 INPUT
		PROTECTIVE EARTH
	DA+	DALI INPUT
	DA+	DALI RE-LAUNCH
	DA-	DALI INPUT
	DA-	DALI RE-LAUNCH
		PROTECTIVE EARTH FOR LED MODULE
5	NTC	THERMAL MEASURE INPUT
1	+1	LED1+CONNECTION (TOP Brick)
2	-1	LED1-CONNECTION (TOP Brick)
	+2	NO CONNECT
	-2	NO CONNECT
3	+3	LED3+CONNECTION (MID Brick)
4	-3	LED3-CONNECTION (MID Brick)

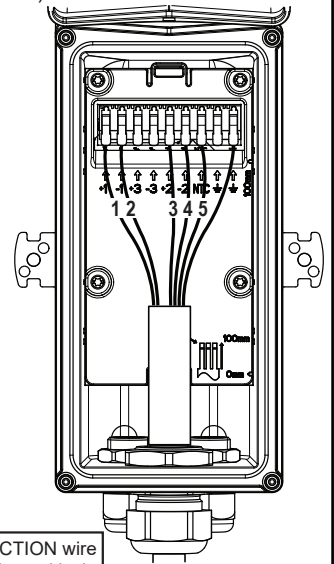
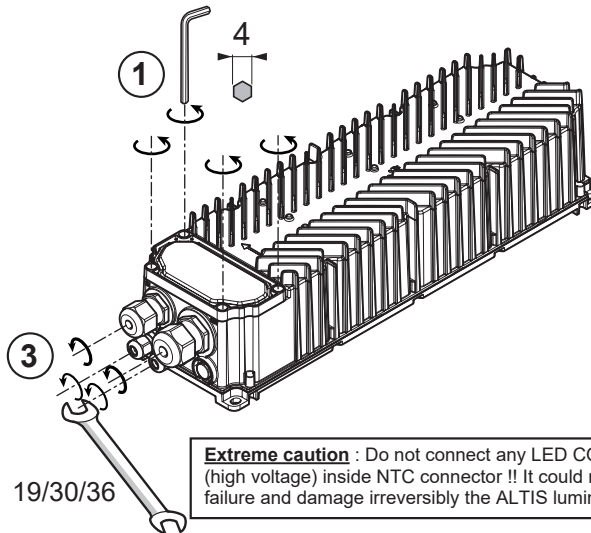
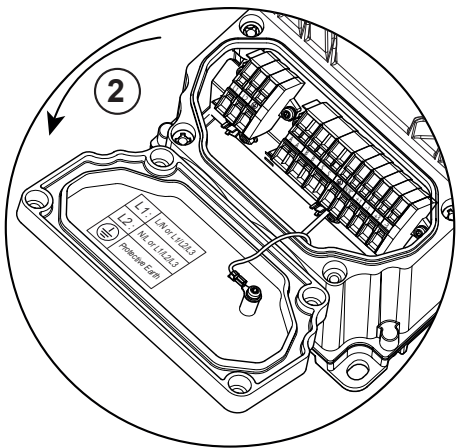
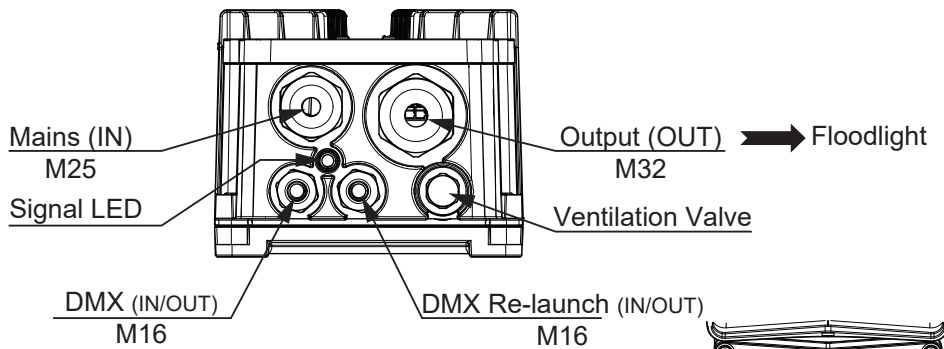
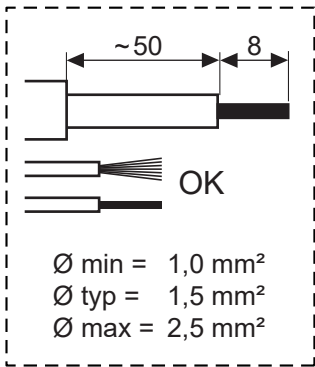


Recommended
H07RNF 3G1,5 mm²

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 ↑ Minimum
	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)	

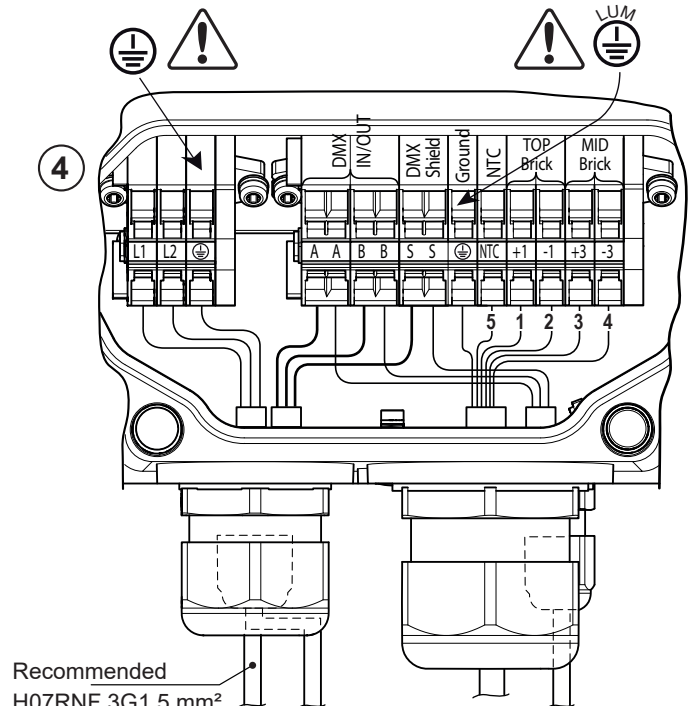
CABLE GLAND		
TYPE	ØMin	ØMax
M16	5 mm	10 mm
M25	10 mm	17 mm
M32	13 mm	21 mm

SEAL REDUCER for GB and FLOOD 		
TYPE	ØMin	ØMax
M32	10 mm	16 mm



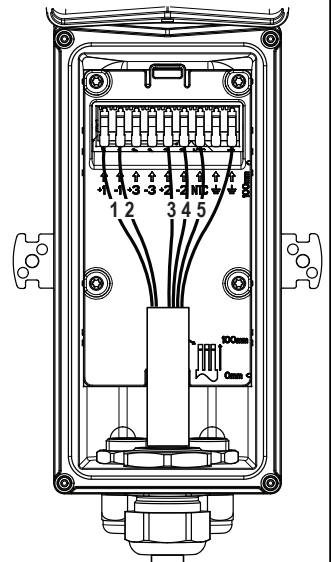
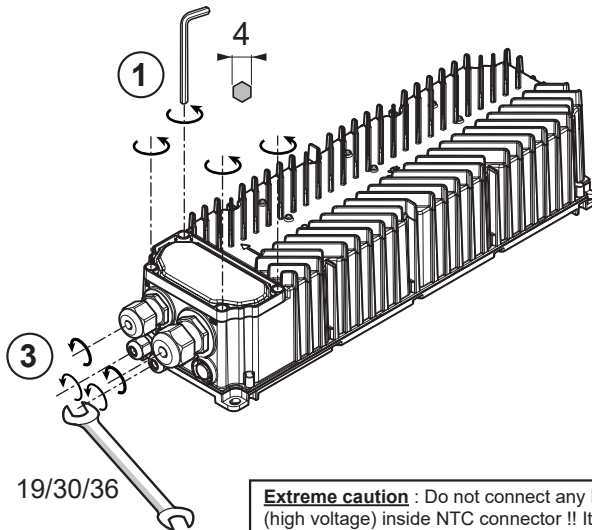
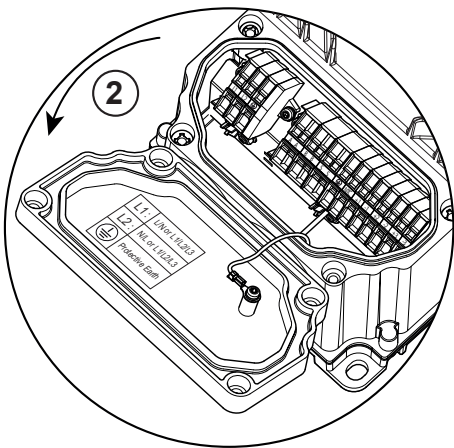
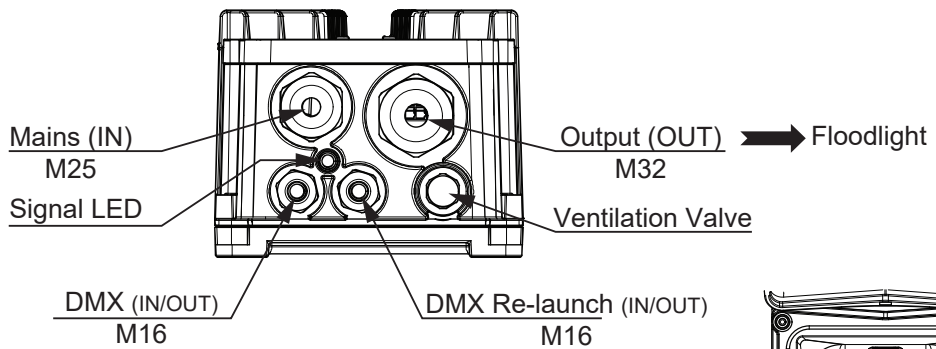
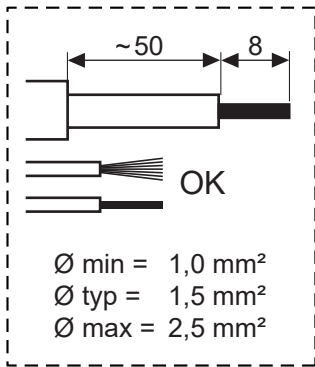
PINOUT		
Number	Label	Description
	L1	AC LINE 1 INPUT
	L2	AC LINE 2 INPUT
		PROTECTIVE EARTH
	A	DMX INPUT DATA+
	A	DMX-RE-LAUNCH DATA+
	B	DMX INPUT DATA-
	B	DMX-RE-LAUNCH DATA-
	S	DMX COMMON / SHIELD
	S	DMX COMMON / SHIELD
		PROTECTIVE EARTH FOR LED MODULE
5	NTC	THERMAL MEASURE INPUT
1	+1	LED1+CONNECTION (TOP Brick)
2	-1	LED1-CONNECTION (TOP Brick)
3	+3	LED3+CONNECTION (MID Brick)
4	-3	LED3-CONNECTION (MID Brick)

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 ↑ Minimum
	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)	



CABLE GLAND		
TYPE	ØMin	ØMax
M16	5 mm	10 mm
M25	10 mm	17 mm
M32	13 mm	21 mm

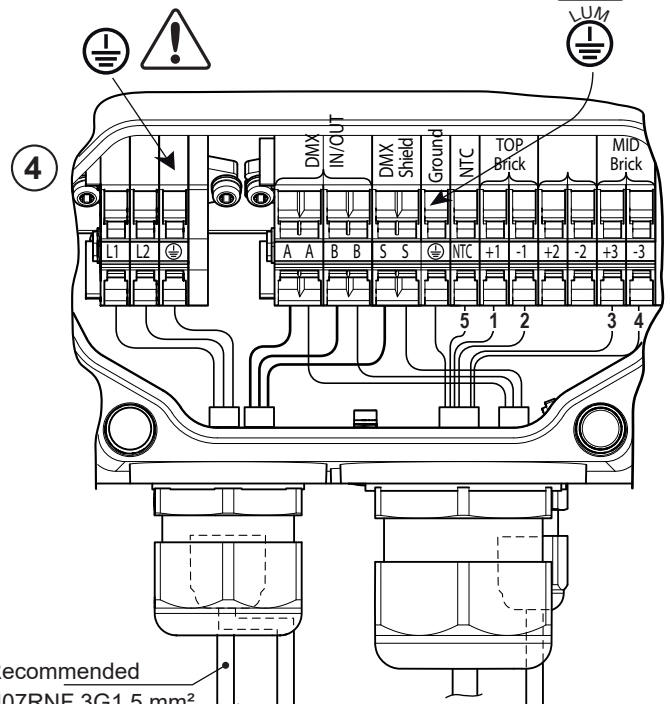
SEAL REDUCER for GB and FLOOD		
TYPE	ØMin	ØMax
M32	10 mm	16 mm



Extreme caution : Do not connect any LED CONNECTION wire (high voltage) inside NTC connector !! It could result in a critical failure and damage irreversibly the ALTIS luminaire



PINOUT		
Number	Label	Description
	L1	AC LINE 1 INPUT
	L2	AC LINE 2 INPUT
		PROTECTIVE EARTH
	A	DMX INPUT DATA+
	A	DMX-RE-LAUNCH DATA+
	B	DMX INPUT DATA-
	B	DMX-RE-LAUNCH DATA-
	S	DMX COMMON / SHIELD
	S	DMX COMMON / SHIELD
		PROTECTIVE EARTH FOR LED MODULE
5	NTC	THERMAL MEASURE INPUT
1	+1	LED1+CONNECTION (TOP Brick)
2	-1	LED1-CONNECTION (TOP Brick)
	+2	NO CONNECT
	-2	NO CONNECT
3	+3	LED3+CONNECTION (MID Brick)
4	-3	LED3-CONNECTION (MID Brick)

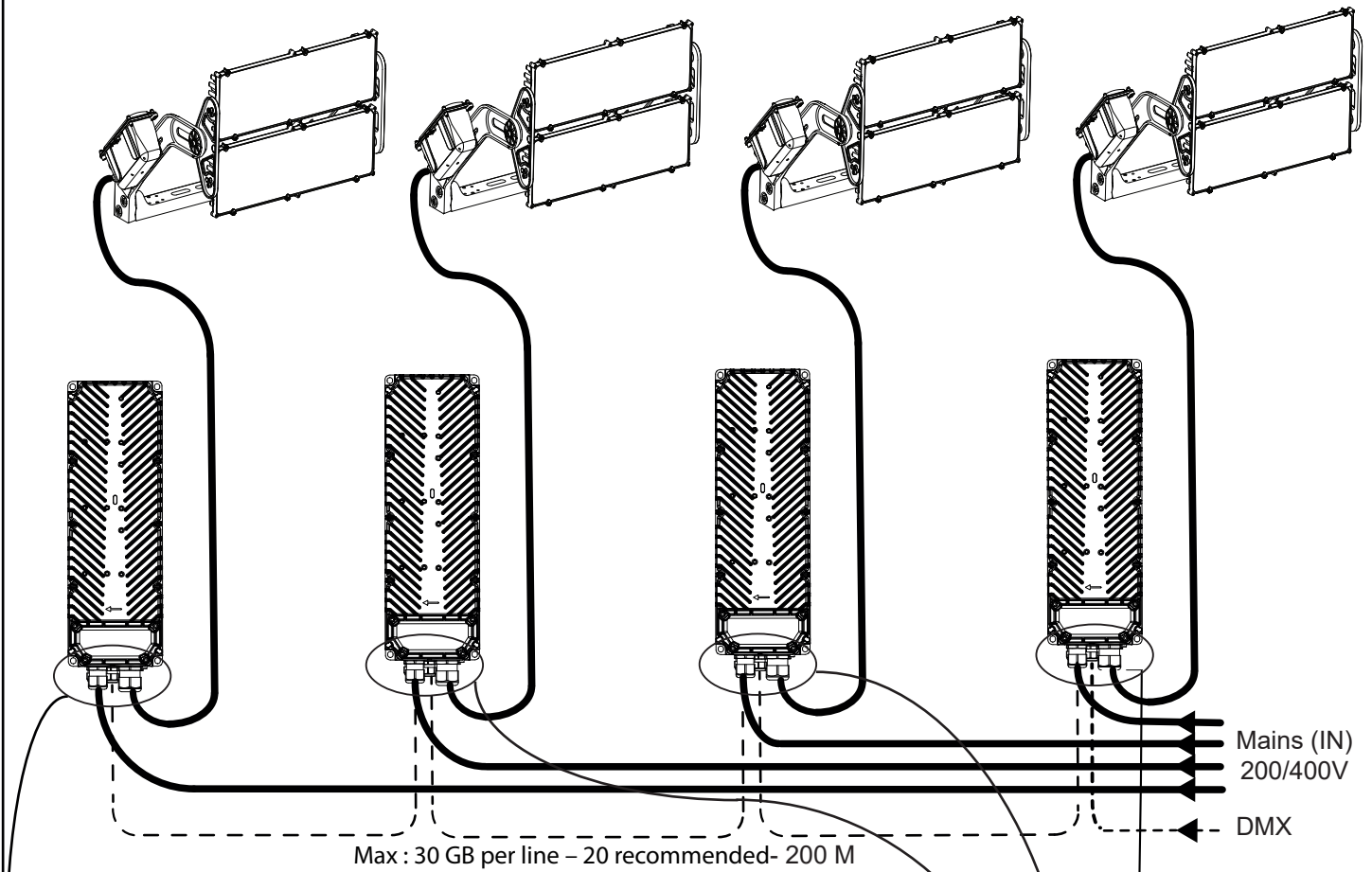
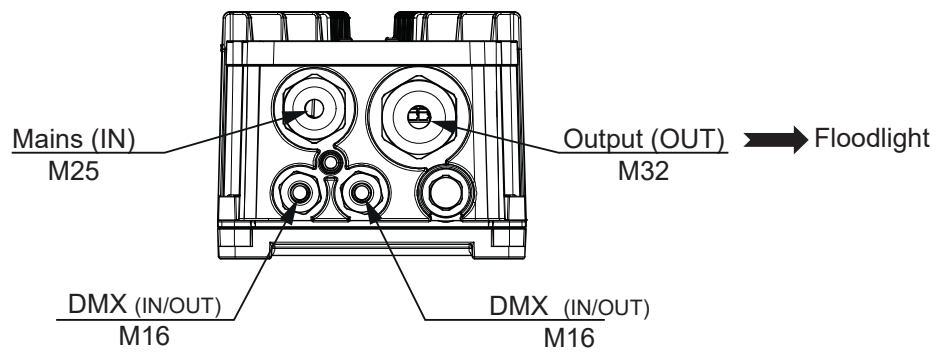


Recommended
H07RNF 3G1,5 mm²

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 ↑ Minimum
	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)	

CABLE GLAND		
TYPE	ØMin	ØMax
M16	5 mm	10 mm
M25	10 mm	17 mm
M32	13 mm	21 mm

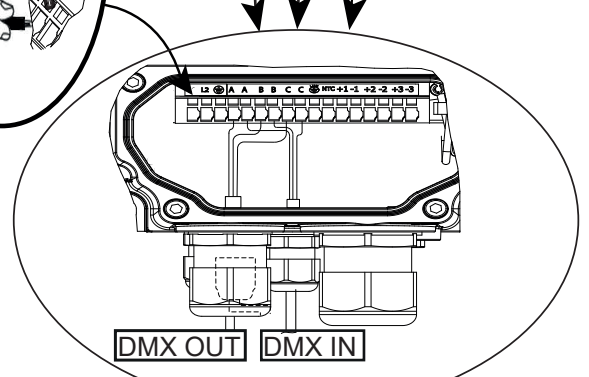
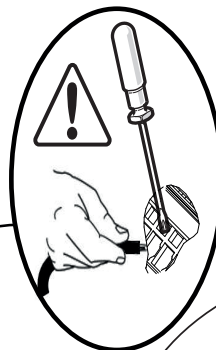
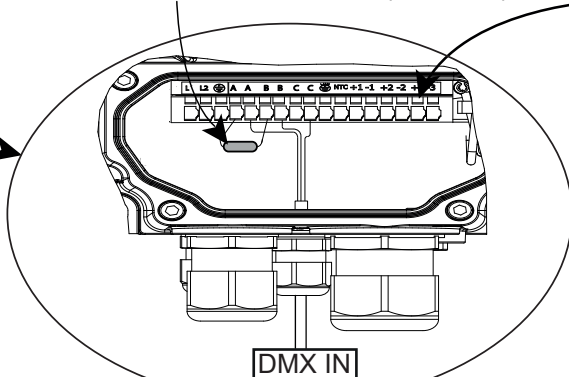
SEAL REDUCER for GB and FLOOD		
TYPE	ØMin	ØMax
M32	10 mm	16 mm

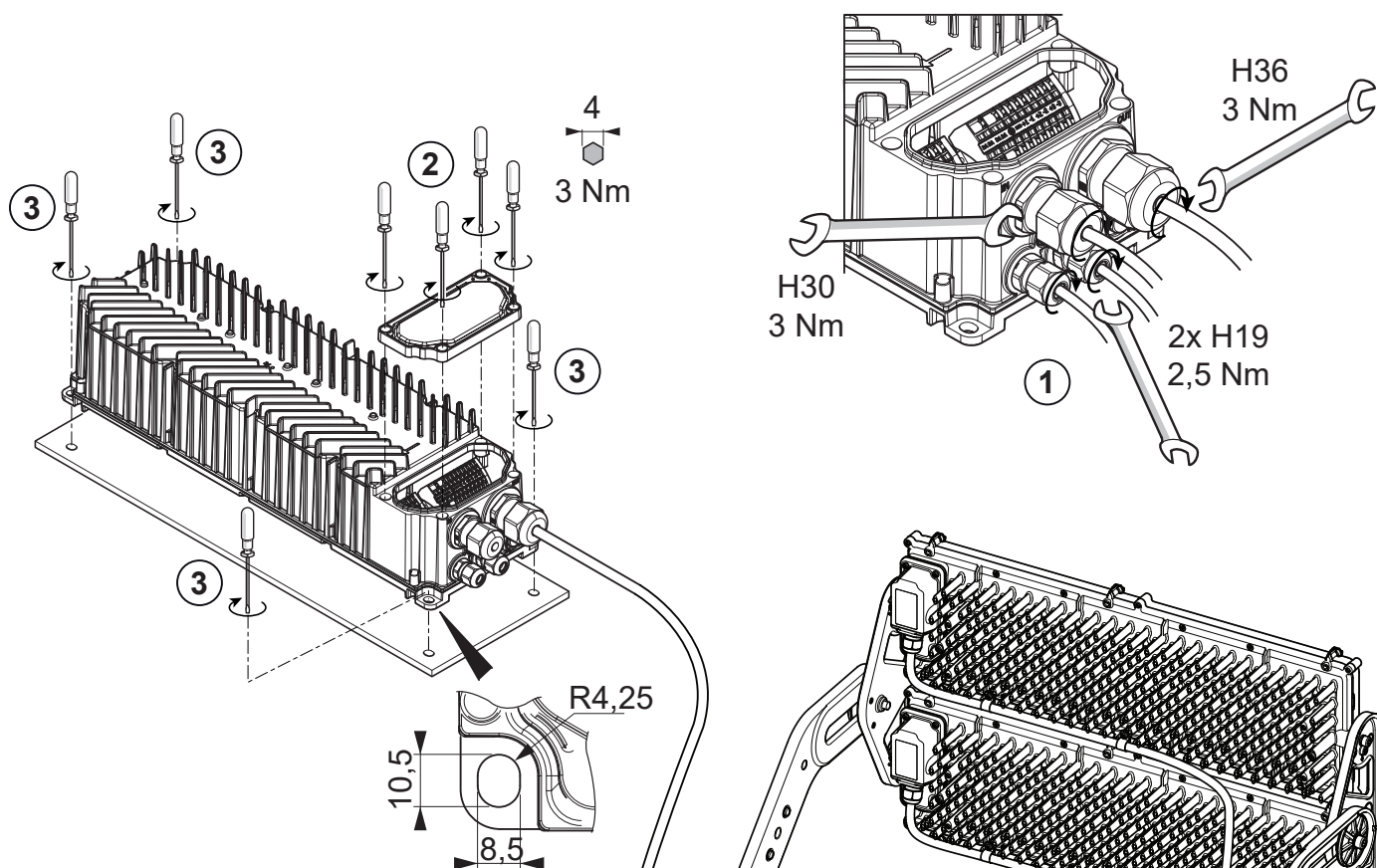


« DMX-RDM wiring shall respect ANSI E1.11 and AINSI E1.20 installation rules».

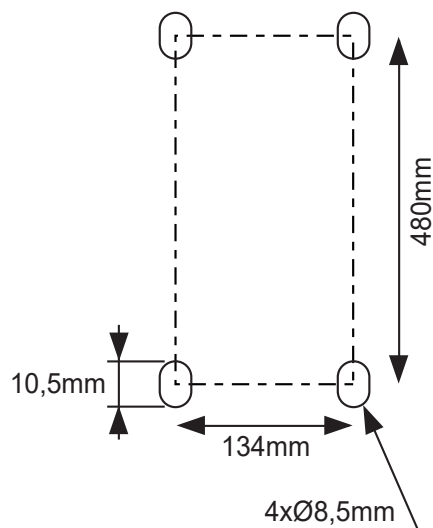
1 to 3 DMX addresses per GB – changeable via RDM

Last device on the line shall be properly terminated with a 120R 0.5W 5% resistance (96683550)

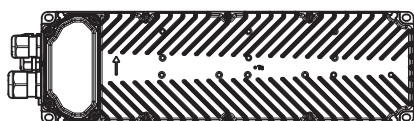




Drilling recommendation:



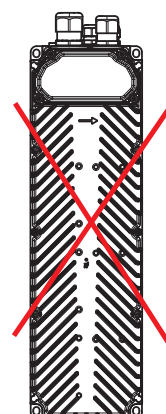
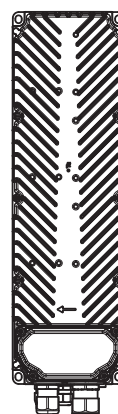
HORIZONTAL



LATERAL / SIDE



VERTICAL

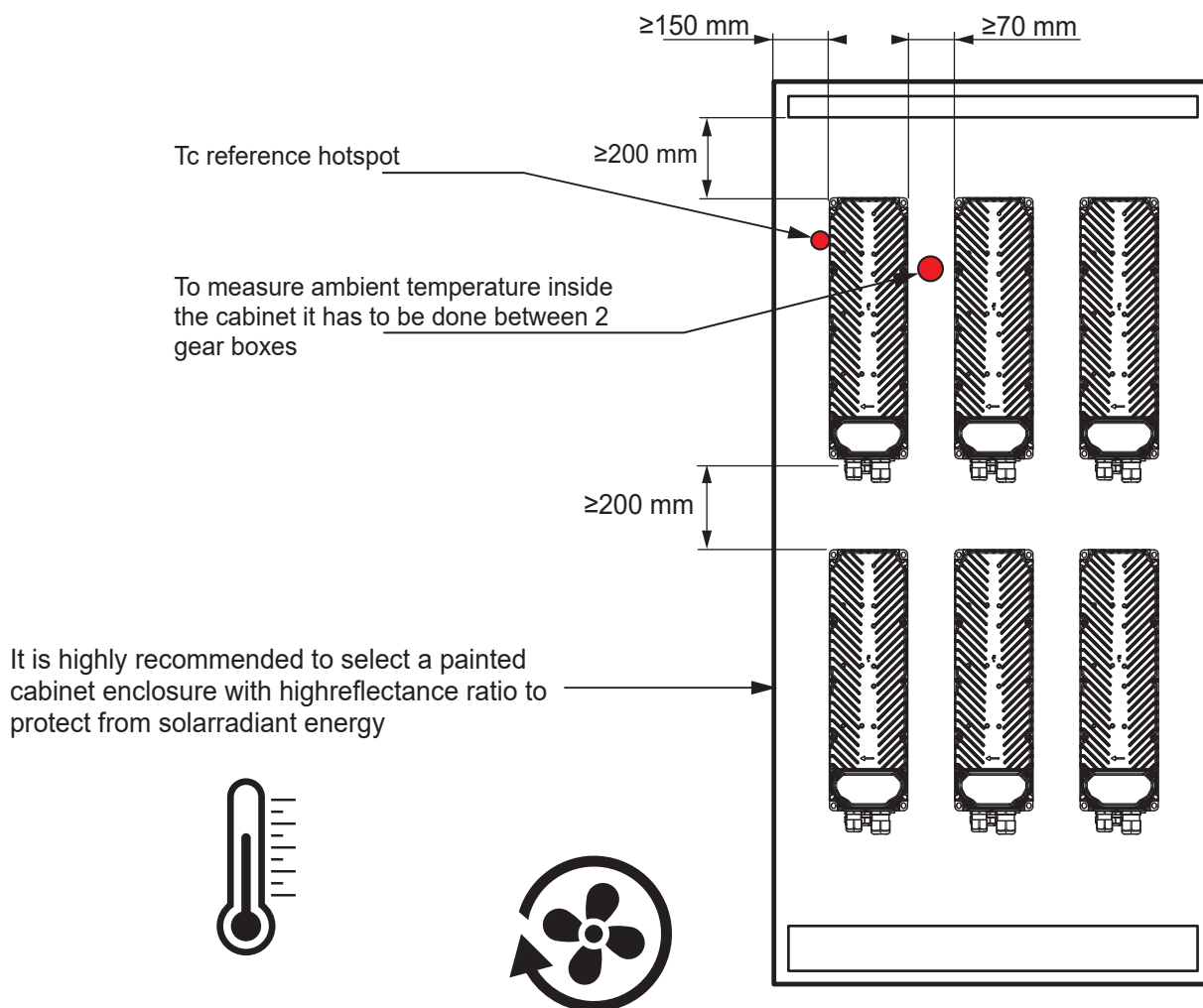


CIRCUIT BREAKER recommendation

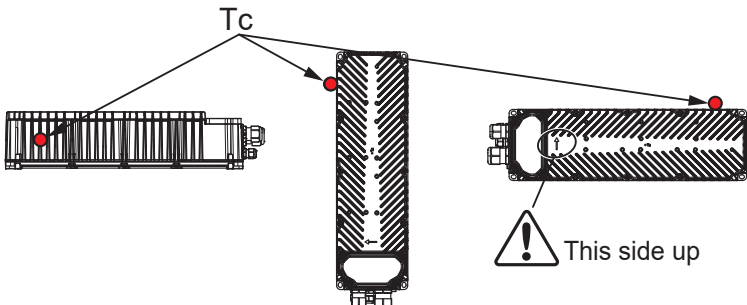
It should be mentioned in the notice that calculation has been done with a Circuit Breaker Load Factor of 100%.

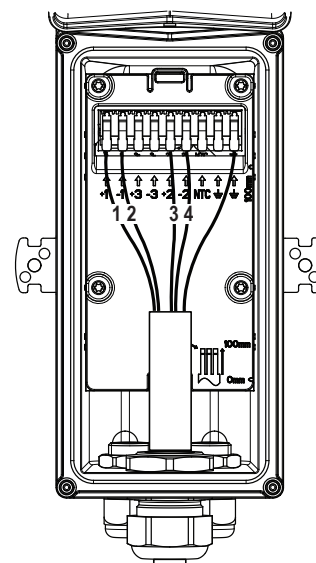
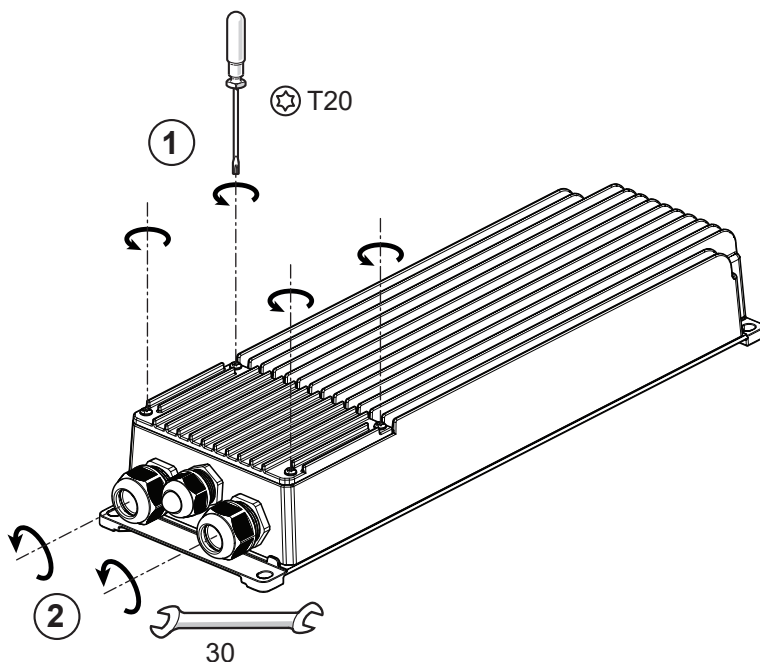
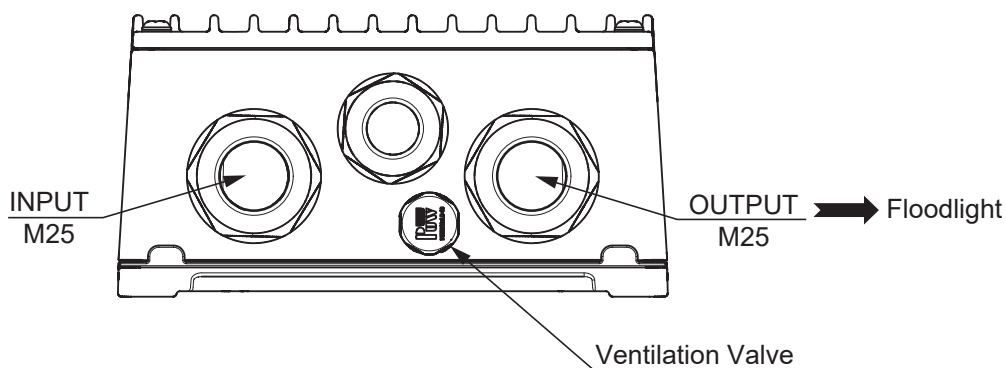
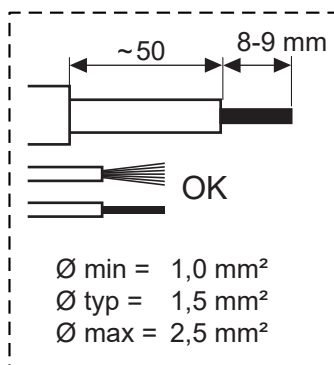
V in Nominal	Inrush Current Data		# Drivers for each Circuit Breaker											
	I peak (A)	Half Value Time (μs)	Type B 10A	Type B 16A	Type B 20A	Type B 25A	Type C 10A	Type C 16A	Type C 20A	Type C 25A	Type D 10A	Type D 16A	Type D 20A	Type D 25A
230Vac	40	2500	0	1	1	2	0	1	1	2	0	1	1	2
400Vac	68	2000	0	1	1	1	1	1	2	2	1	1	2	3

GUIDELINE FOR INTEGRATION OF GEAR BOX

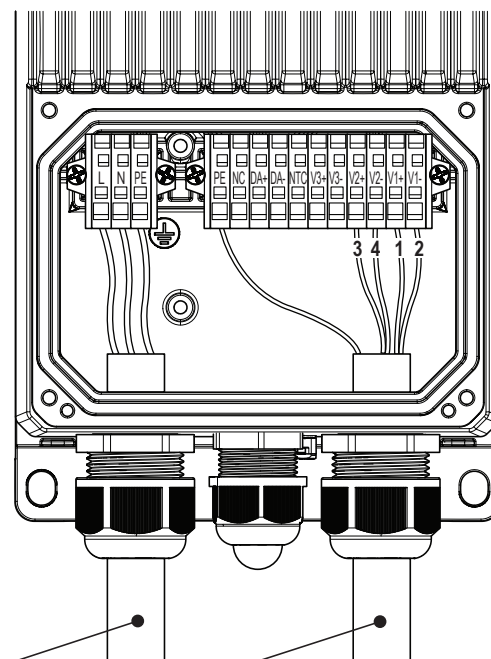


If you cannot follow instructions included in previous section regarding gear box integration, you have to measure Tc reference point taking into consideration that measures must be down to Tc_max

Tc Reference at Max Ambient			
Position	Horizontal	Vertical	Side
Mounting			
	230Vac	81°C	80°C
	400Vac	69°C	68°C
	Ambient Max	55°C	55°C
			82°C (Ref.)
			70°C (Ref.)
			55°C (Ref.)



PINOUT		
Number	Label	Description
	L	AC INPUT
	N	AC INPUT
	PE	PROTECTIVE EARTH
	PE	PE FOR LED MODULE
	NTC	THERMAL PROTECTION FOR LED FIXTURE
	V3+	NO CONNECT
	V3-	NO CONNECT
3	V2+	OUTPUT CHANNEL 2+ (MID Brick)
4	V2-	OUTPUT CHANNEL 2- (MID Brick)
1	V1+	OUTPUT CHANNEL 1+ (TOP Brick)
2	V1-	OUTPUT CHANNEL 1- (TOP Brick)



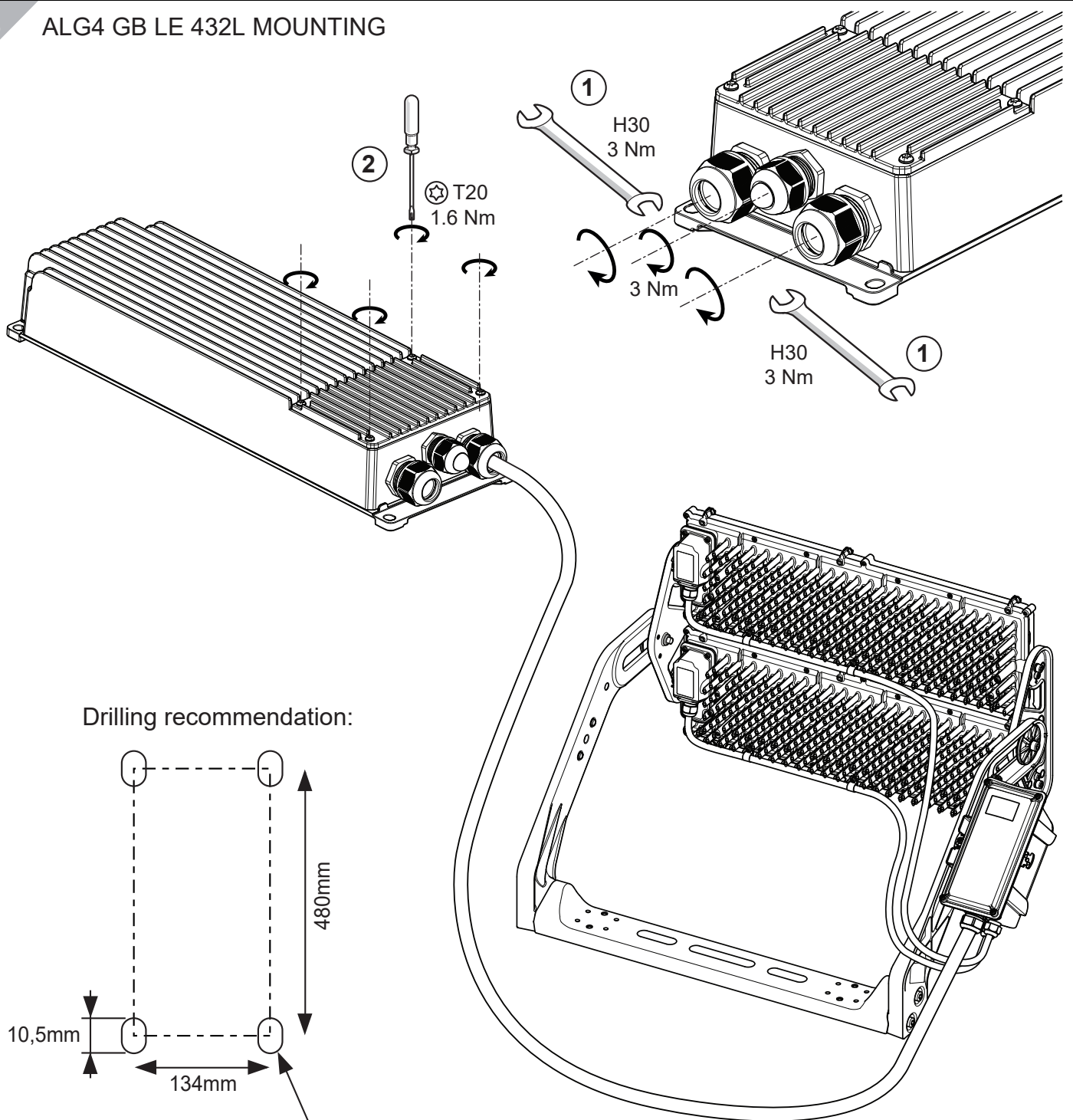
Recommended :
 H07RNF 3G1.5 mm²

Recommended :
 H07RNF 7G1.5 mm²

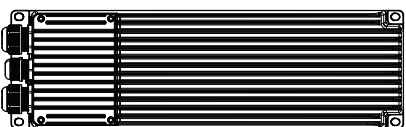


The wiring should be strictly followed by the marking label instruction, Otherwise the product could be damaged or the fonctions could be affected. Each set of + or - are not potential dential, cross connection is prohibited.

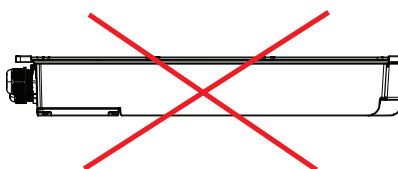
CABLE GLAND		
TYPE	ØMin	ØMax
M20	6.3 mm	11.3 mm
M25	10 mm	16.3 mm



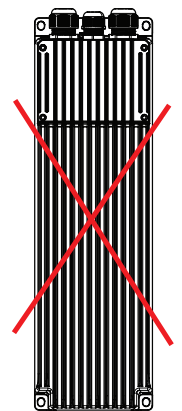
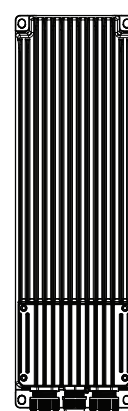
HORIZONTAL



LATERAL / SIDE



VERTICAL



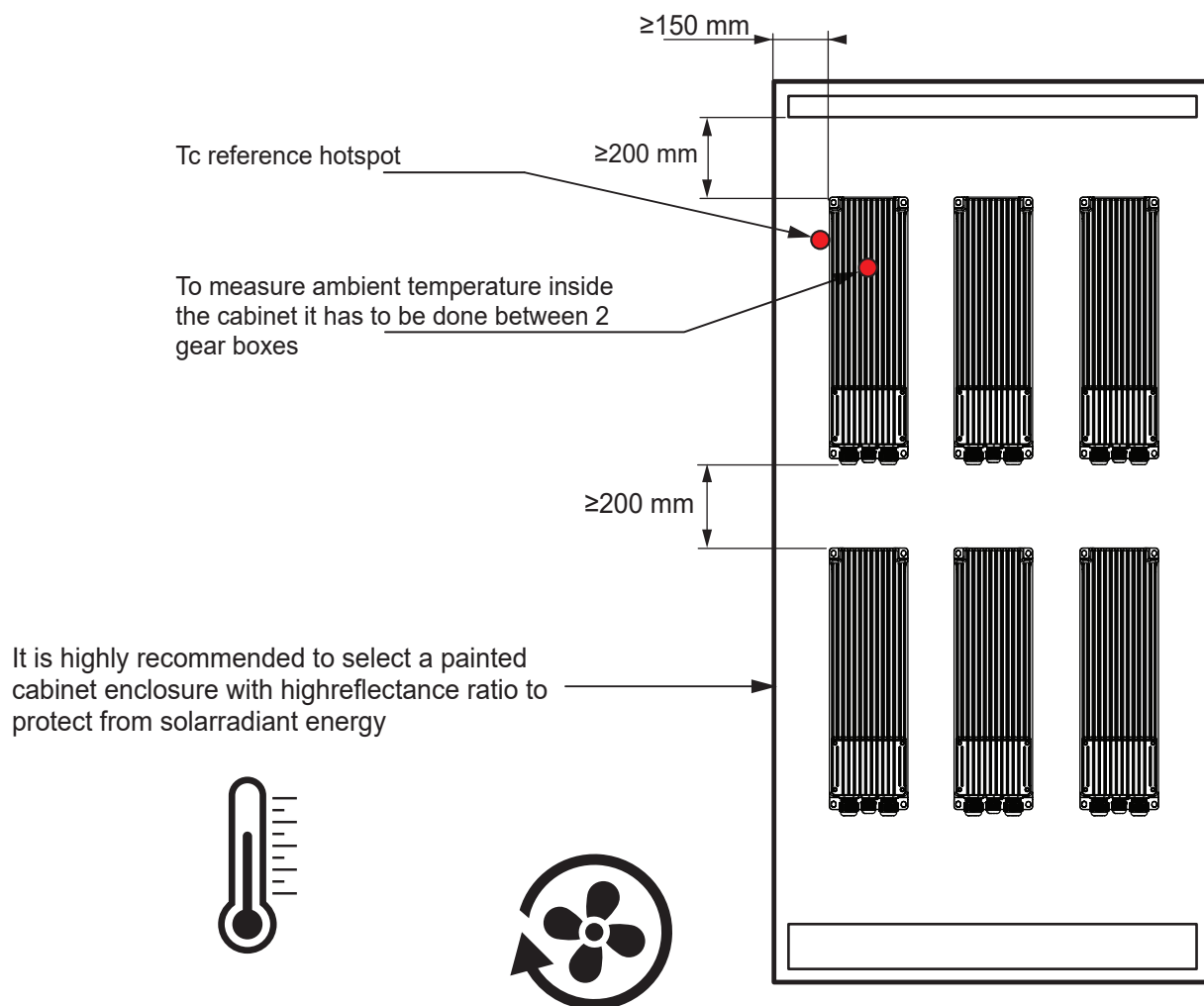
17 ALG4 GB LE 432L / 200-250 Vac - ALG4 GB LE 432L 250-440 Vac

Drivers for each circuit breaker

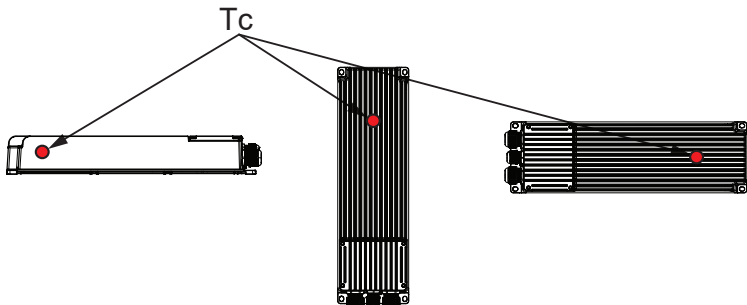
Referring to the circuit breakers available on the market, the maximum number on the driver connectable for each circuit breaker is as the following table.

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

GUIDELINE FOR INTEGRATION OF GEAR BOX



If you cannot follow instructions included in previous section regarding gear box integration, you have to measure Tc reference point taking into consideration that measures must be down to Tc_max

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

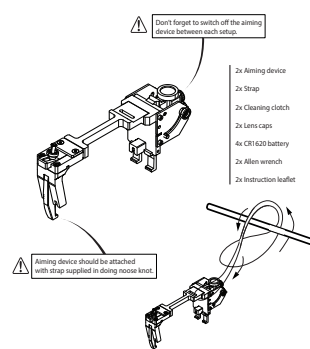
Aiming Device

THORN

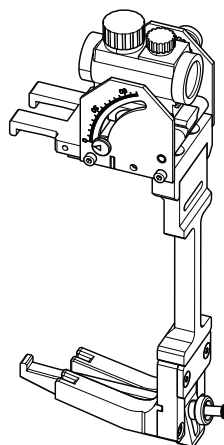
ALTIS LED AIMING DEVICE

UK	Installation instructions	FI	Asennusohje	LV	Instalācijas instrukcija
DE	Montageanleitung	FR	Notice de montage	NO	Monteringsveiledning
CZ	Montážní návod	HU	Szerelési útmutató	PL	Instrukcja montażu
DK	Montagevejledning	IT	Istruzioni di montaggio	SE	Installationsanvisning
EE	Päripäsuphend	LT	Montavimo instrukcija	RU	ИНСТРУКЦИЯ ПО МОНТАЖУ

ALTIS LED AIMING DEVICE



96671487	ALTIS G5 AIMING DEVICE WITH VISOR
96671488	ALTIS G5 AIMING DEVICE BRACKET



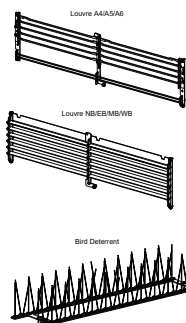
Louvres / Bird Deterrent

THORN

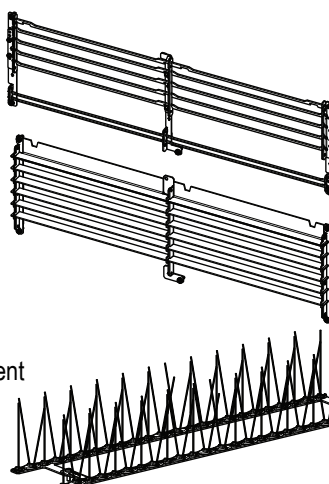
ALTIS LED

UK	Installation instructions	FI	Asennusohje	LV	Instalācijas instrukcija
DE	Montageanleitung	FR	Notice de montage	NO	Monteringsveiledning
CZ	Montážní návod	HU	Szerelési útmutató	PL	Instrukcja montażu
DK	Montagevejledning	IT	Istruzioni di montaggio	SE	Installationsanvisning
EE	Päripäsuphend	LT	Montavimo instrukcija	RU	ИНСТРУКЦИЯ ПО МОНТАЖУ

TYPE: ALTIS LED G4/G5 ACCESSORIES

Louvre
A4/A5/A6/A6ILouvre
NB/EB/MB/WB

Bird Deterrent



96671492	ALTIS G5 1 BRICK LOUVRE A4
96671493	ALTIS G5 1 BRICK LOUVRE A5
96671494	ALTIS G5 1 BRICK LOUVRE A6/A6I
96671496	ALTIS G5 1 BRICK LOUVRE MB
96671495	ALTIS G5 1 BRICK LOUVRE NB/EB
96671497	ALTIS G5 1 BRICK LOUVRE WB

96671489 ALTIS G5 BIRD DETERRENT

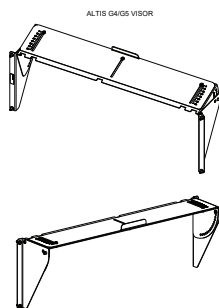
Visor

THORN

ALTIS LED

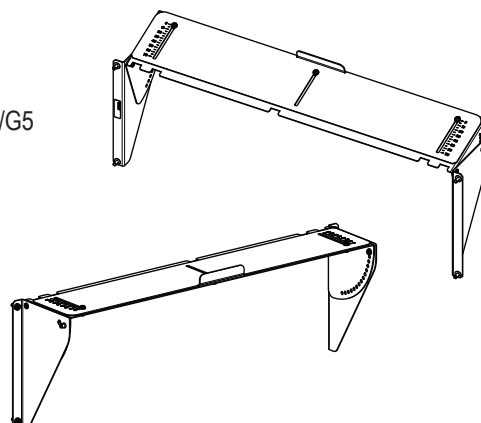
UK	Installation instructions	FI	Asennusohje	LV	Instalācijas instrukcija
DE	Montageanleitung	FR	Notice de montage	NO	Monteringsveiledning
CZ	Montážní návod	HU	Szerelési útmutató	PL	Instrukcja montażu
DK	Montagevejledning	IT	Istruzioni di montaggio	SE	Installationsanvisning
EE	Päripäsuphend	LT	Montavimo instrukcija	RU	ИНСТРУКЦИЯ ПО МОНТАЖУ

TYPE: ALTIS G4/G5 ACCESSORIES



96671498 ALTIS G5 1 BRICK AJ VISOR

Visor G4/G5



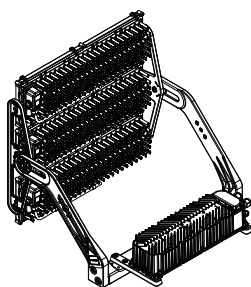
Power supply support

THORN

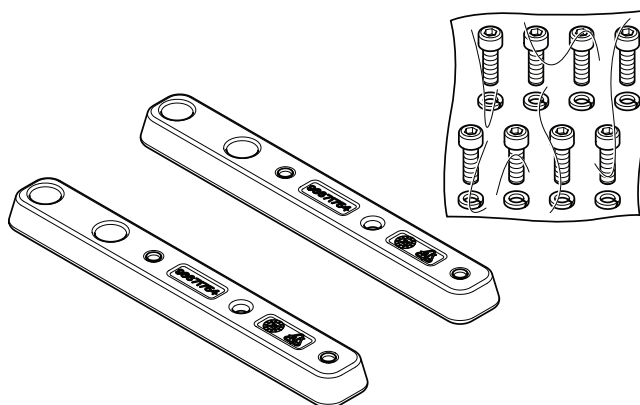
ALTIS LED

UK	Installation instructions	FI	Asennusohje	LV	Instalācijas instrukcija
DE	Montageanleitung	FR	Notice de montage	NO	Monteringsveiledning
CZ	Montážní návod	HU	Szerelési útmutató	PL	Instrukcja montażu
DK	Montagevejledning	IT	Istruzioni di montaggio	SE	Installationsanvisning
EE	Päripäsuphend	LT	Montavimo instrukcija	RU	ИНСТРУКЦИЯ ПО МОНТАЖУ

TYPE: ALTIS G4/G5 ACCESSORIES



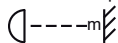
96671490 ALTIS G5 GB BRACKET 3 BRICK STIRRUP



FRANCAIS

- Remplacer toute protection fissurée.
- Les luminaires classe II doivent être installés de façon à ce que la partie métallique ne soit pas en contact avec l'installation électrique connectée à la terre.

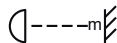
ATTENTION: Les luminaires classe I doivent être reliés à la terre.
-Ce luminaire fonctionne à une tension nominale qui doit être coupée avant toute intervention sur l'appareillage.
-Toute modification de cet appareil est interdite.
-Respecter la distance minimale par rapport aux objets éclairés définie par ce sigle.



SVERIGE

- Ersätta alla spräckta skyddsplåtar.
- Klass II armaturer måste installeras så att nakna metalldelar i armaturen inte är i kontakt med någon elektrisk installation, kopplad till en skyddledare.

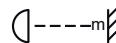
VARNING: Klass I armaturer måste vara jordade.
-Denna armatur fungerar med högspänning som måste vara fränslagen före ingripande i driftdonen.
-Alla ändringar i denna armatur är förbjuden.



ITALIANO

- Sostituire sempre tutte le protezioni danneggiate.
- Gli apparecchi in classe II devono essere installati in modo che le parti metalliche non siano in contatto con apparati elettrici collegati a terra.

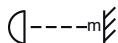
ATTENZIONE: Gli apparecchi in class I devono essere collegati a terra.
-Questo apparecchio funziona a tensione nominale, questa deve essere interrotta prima di ogni intervento sul gruppo di alimentazione.
-Ogni modifica dell' apparecchio è proibita.



ENGLISH

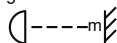
- Replace any cracked protective shield.
- Class II luminaires must be installed so that exposed metal work of the luminaire is not in contact with any part of the electrical installation connected to a protective conductor.

WARNING: Class I luminaires must be earthed.
-This luminaire operates at mains voltage which must be switched off before intervention in control gear.
-Any modification to this luminaire is forbidden.
-Lighted objects nearer than the minimal distance in the is forbidden.



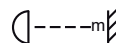
DEUTSCH

- Ersetze jede gebrochene Schutzscheibe.
 - Schutzklasse II Leuchten müssen so installiert werden, daß berührbare Metallteile nicht mit einem, an dem Schutzleiter angeschlossenen Teil der elektrischen Installation in Kontakt kommen können.
- ACHTUNG:** Schutzklasse I Leuchten müssen geerdet sein.
-Diese Leuchte wird mit Netzspannung betrieben. Bevor Eingriffe am Vorschaltgerät vorgenommen werden sowie vor Wartung und Installation, ist die Versorgungsspannung abzuschalten.
-Jede Änderung an dieser Leuchte ist verboten.



SUOMI

- Rikkoontunut suojalasi vaihdettava välittömästi uutsen vastaavaan.
 - Asennettaessa suojausluokan II valaisinta on peruseristetyin johdon ja kosketeltavien metalliosien välinen kosketus tehokkaasti eristettävä.
- VAROITUS:** Suojausluokan I valaisin täytyy maadoittaa.
-Verkkojännite on kytkettävä pois ennen valaisimen huoltotoimenpiteitä.
-Valaisimen rakennetta ei saa muuttaa.



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- To ensure maintaining the best system performances, we advice to switch on the system "At least one night hour per month".
- corrosion environment from C1 to C5 according to standard ISO9223 except gear Box ALG4 GB LE 432L corrosion environment from C1 to C3