

UK Installation instructions

FI Asennusohje

LV Instalācijas instrukcija

DE Montageanleitung

FR Notice de montage

NO Monteringsanvisning

CZ Montážní návod

HU Szerelési útmutató

PL Instrukcja montażu

DK Monteringsvejledning

IT Istruzioni di montaggio

SE Installationsanvisning

EE Paigaldusjuhend

LT Montavimo Instrukcijos

RU ИНСТРУКЦИЯ ПО МОНТАЖУ

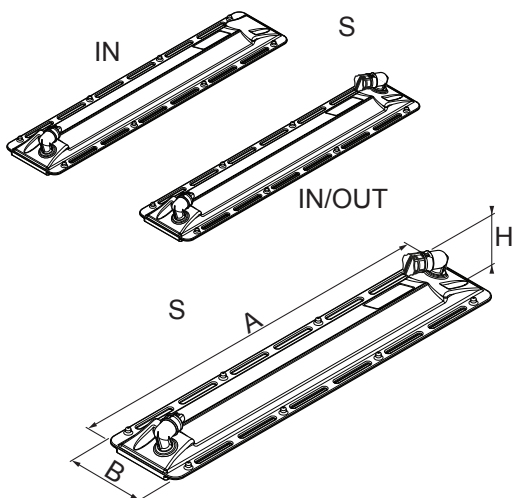
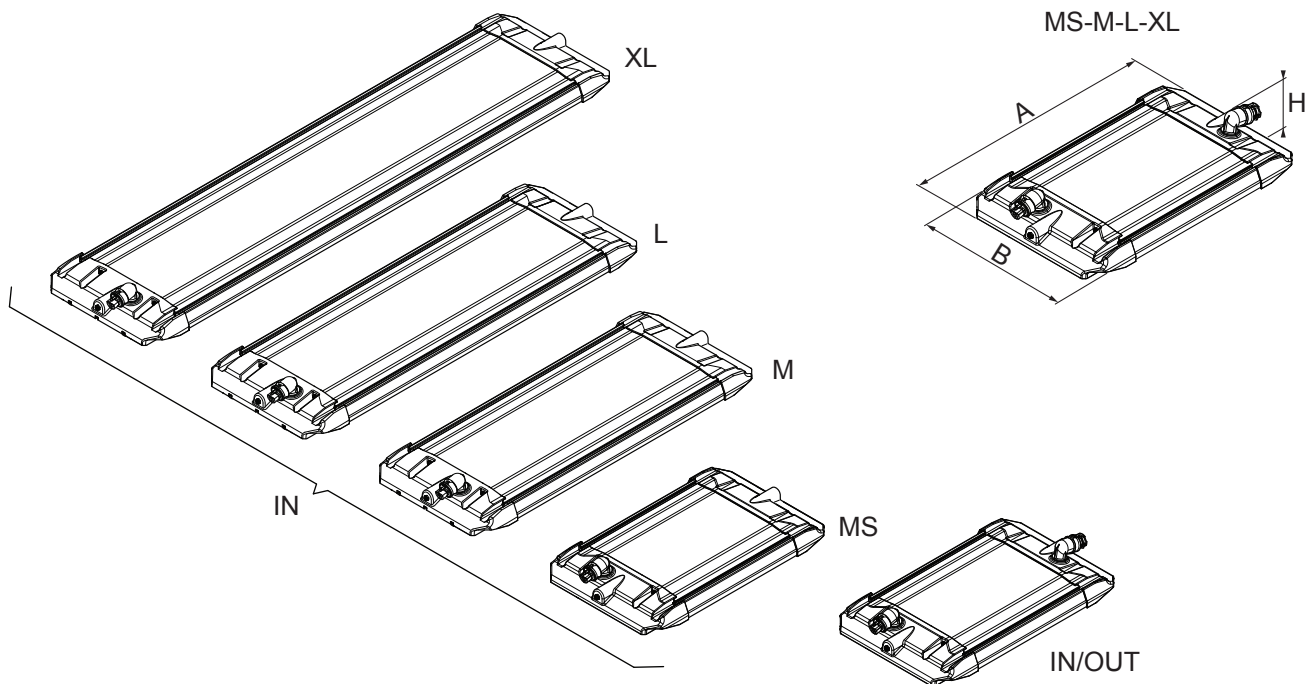


The luminaire should be positioned so that prolonged staring into the luminaire at a distance <2m is not expected



WARNING :
Warranty is void if housing has been opened


TYPE : GP AL



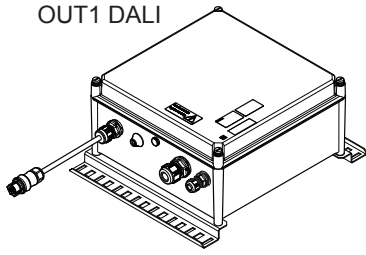
GP AL	A (mm)	B (mm)	C (mm)		
S	773	168	84	12-48	3,4 kg
MS	520	313	90	12-48	6,5 kg
M	800			72-108	10,3 kg
L	952			144	12,4 kg
XL	1320			216	17,5 kg

LED CLASS I CLASS II CE IK08 IP66

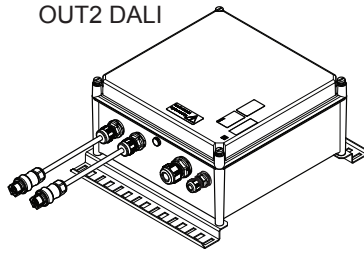
TYPE : GP PB

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

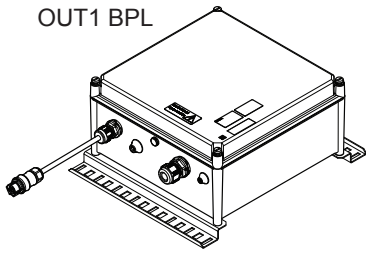
OUT1 DALI



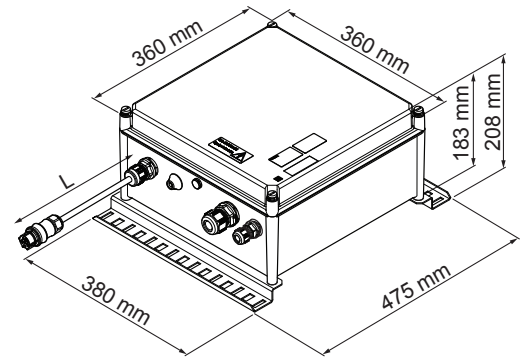
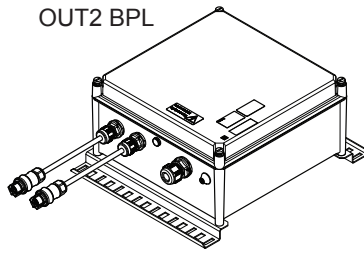
OUT2 DALI




OUT1 BPL



OUT2 BPL




GP PB		L(m)	
1x200W	OUT1	1,5 ↔ 8	6,6 ↔ 7,6kg
2x135W	OUT1	1,5 ↔ 8	7,6 ↔ 9,1kg
2x200W	OUT1	1,5 ↔ 8	8,1 ↔ 9,6kg
2x135W	OUT2	1,5 ↔ 8	7,8 ↔ 9,7kg
2x200W	OUT2	1,5 ↔ 8	8,2 ↔ 10,1kg
3x200W	OUT1	1,5 ↔ 8	9,5 ↔ 11,7kg
4x135W	OUT2	1,5 ↔ 8	10,1 ↔ 13,1kg
4x200W	OUT2	1,5 ↔ 8	11 ↔ 14kg

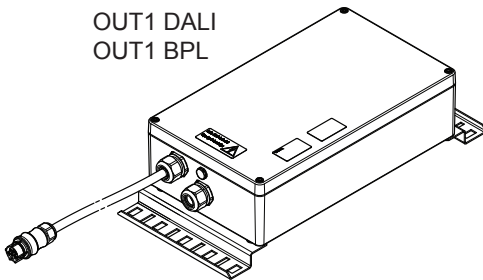


CLASS I  CLASS II   CE IK08 IP66

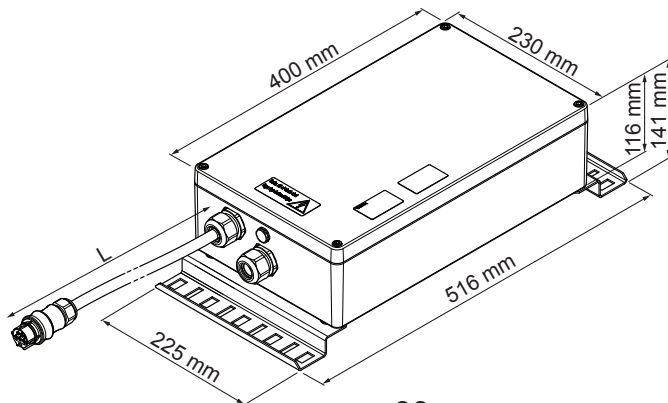
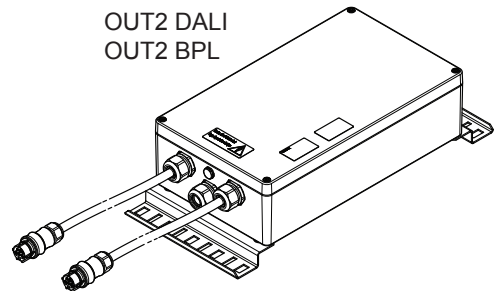
TYPE : GP AB


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

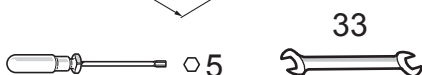
OUT1 DALI
 OUT1 BPL



OUT2 DALI
 OUT2 BPL



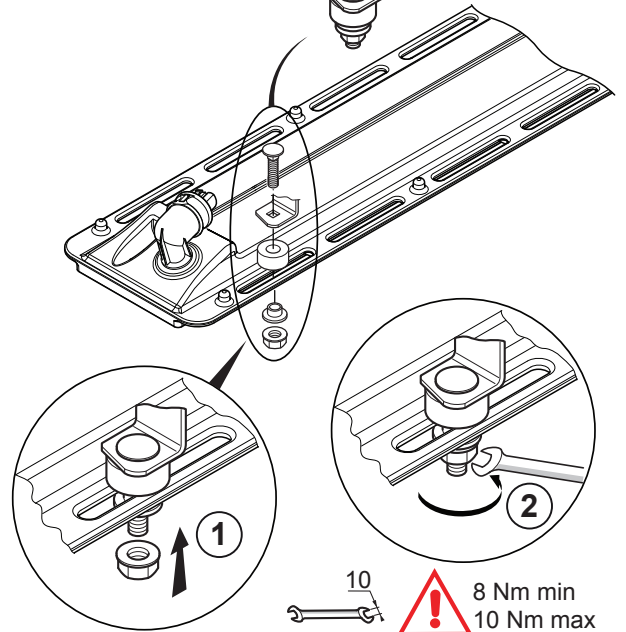
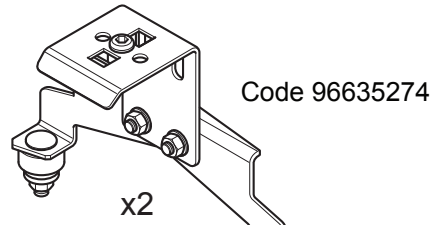
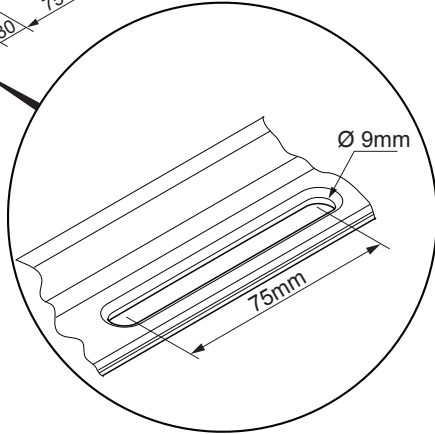
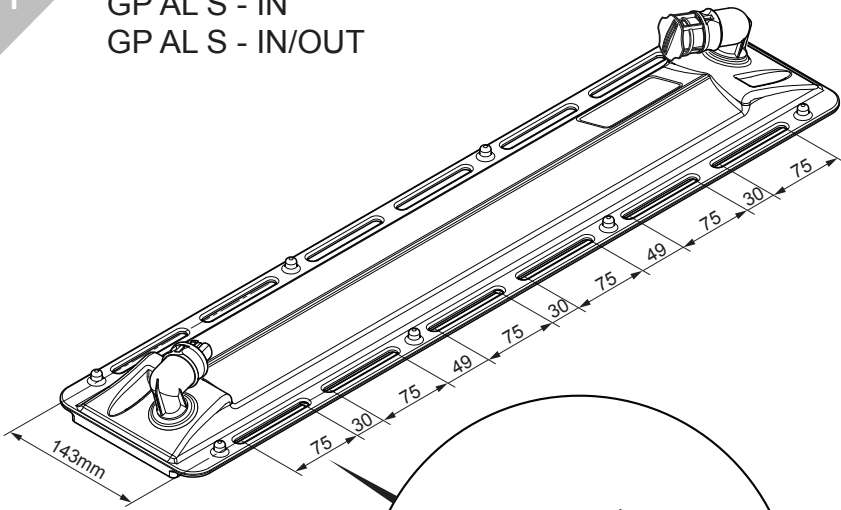
GP AB		L(m)	
1x200W	OUT1	1,5 ↔ 8	6,9 ↔ 7,9kg
2x135W	OUT1	1,5 ↔ 8	7,8 ↔ 9,2 kg
2x200W	OUT1	1,5 ↔ 8	8,2 ↔ 9,7kg
2x135W	OUT2	1,5 ↔ 8	8 ↔ 9,8 kg
2x200W	OUT2	1,5 ↔ 8	8,4 ↔ 10,3 kg
3x200W	OUT1	1,5 ↔ 8	9,6 ↔ 11,7 kg
4x135W	OUT2	1,5 ↔ 8	10,1 ↔ 13 kg
4x200W	OUT2	1,5 ↔ 8	11 ↔ 13,9 kg



CLASS I  CLASS II   CE IK10 IP66

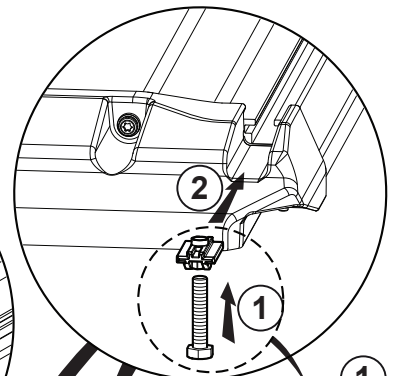
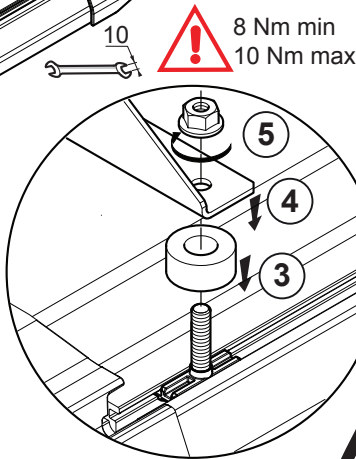
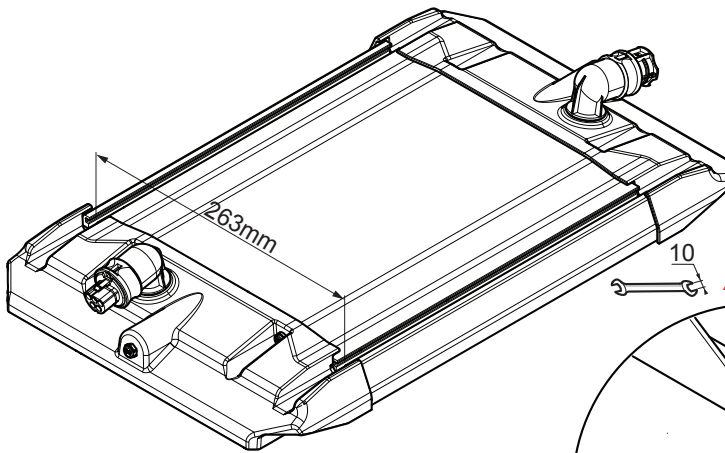
1

GP AL S - IN
GP AL S - IN/OUT

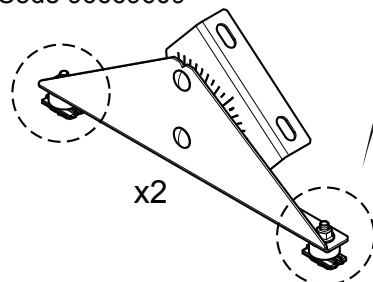


2

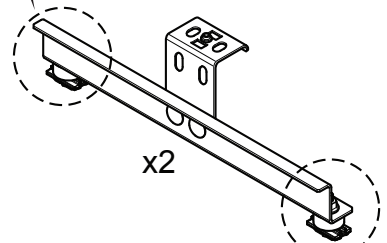
GP AL MS/M/L/XL - IN
GP AL MS - IN/OUT



Code 96669609



Code 96635273

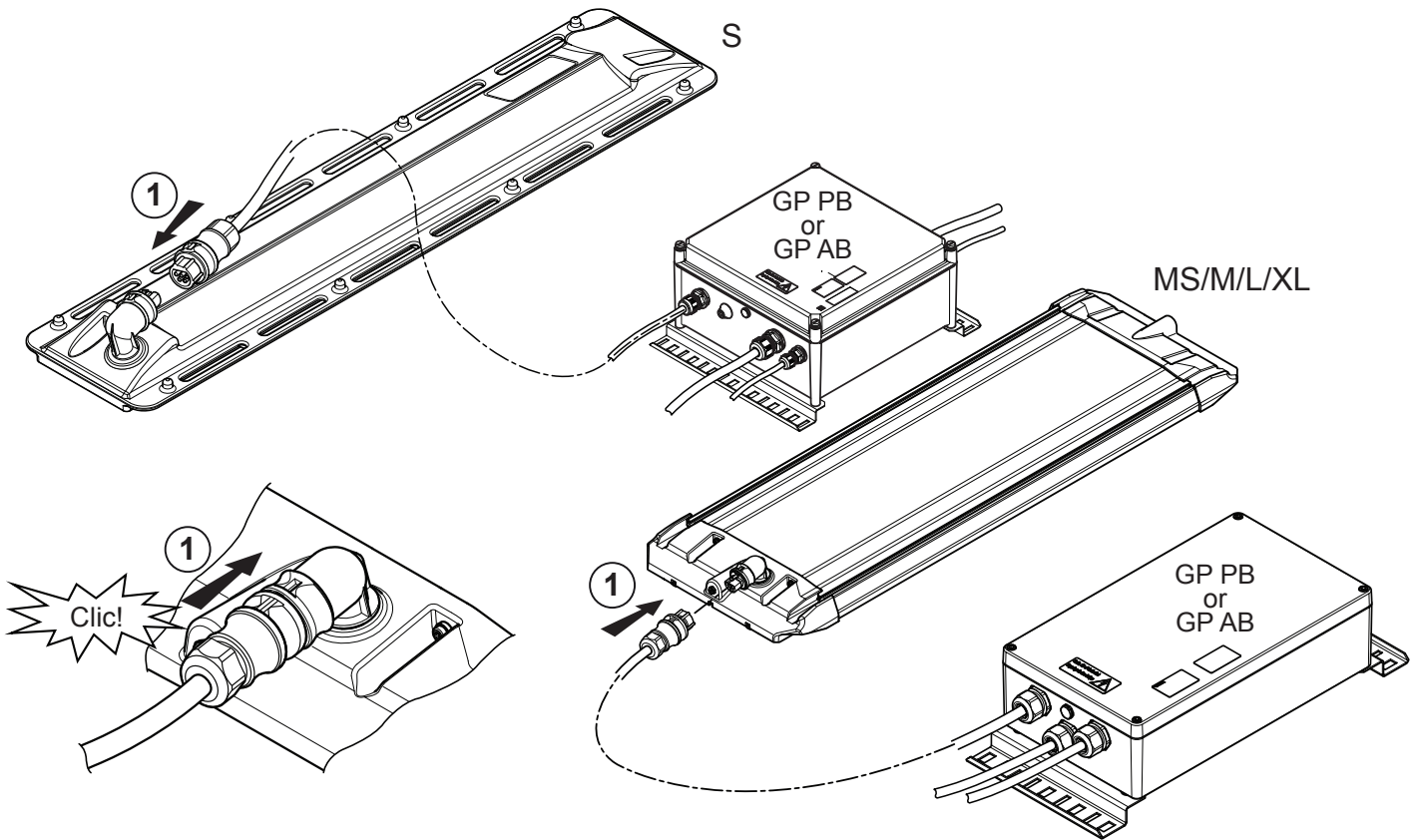




SWITCH OFF POWER BEFORE
CONNECTING LUMINAIRE

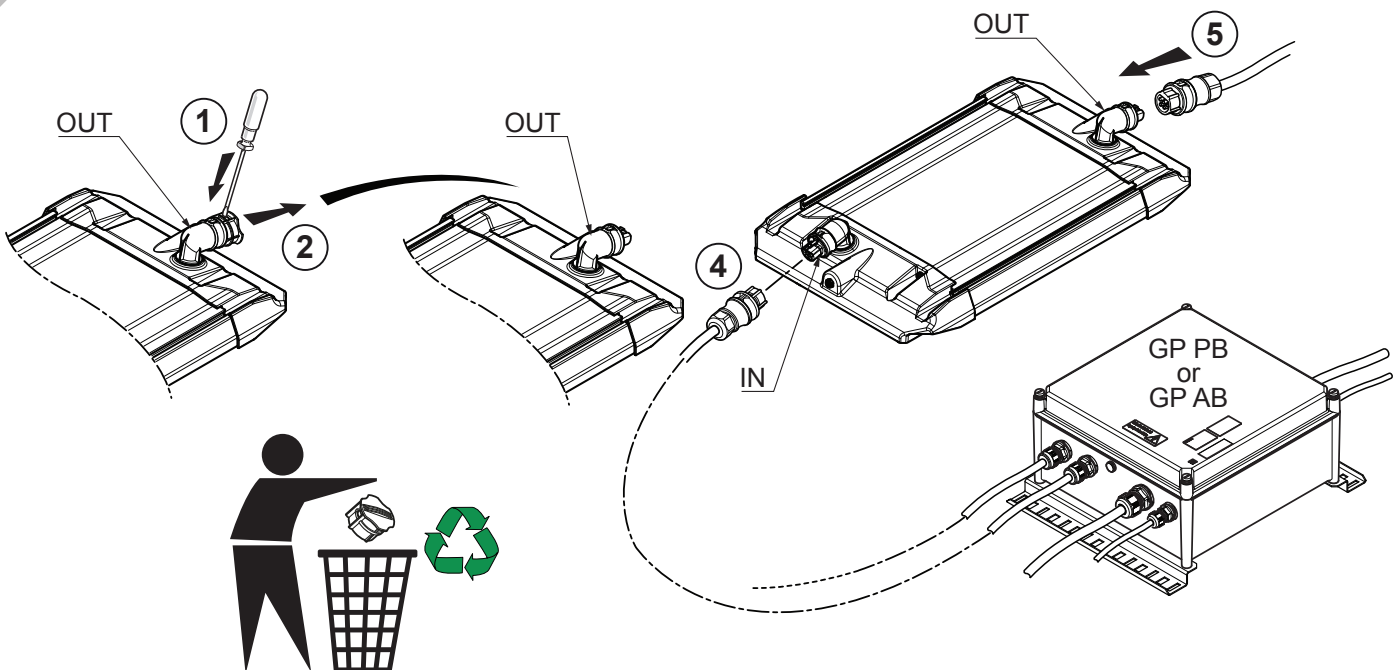
3

GP AL S - IN
GP AL MS/M/L/XL - IN

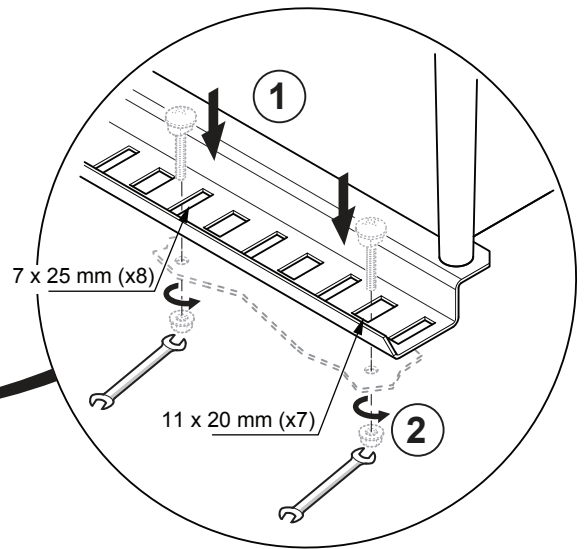
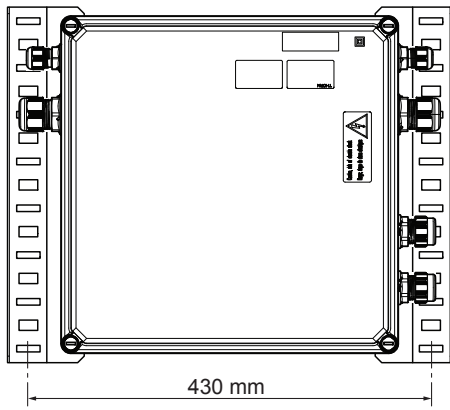


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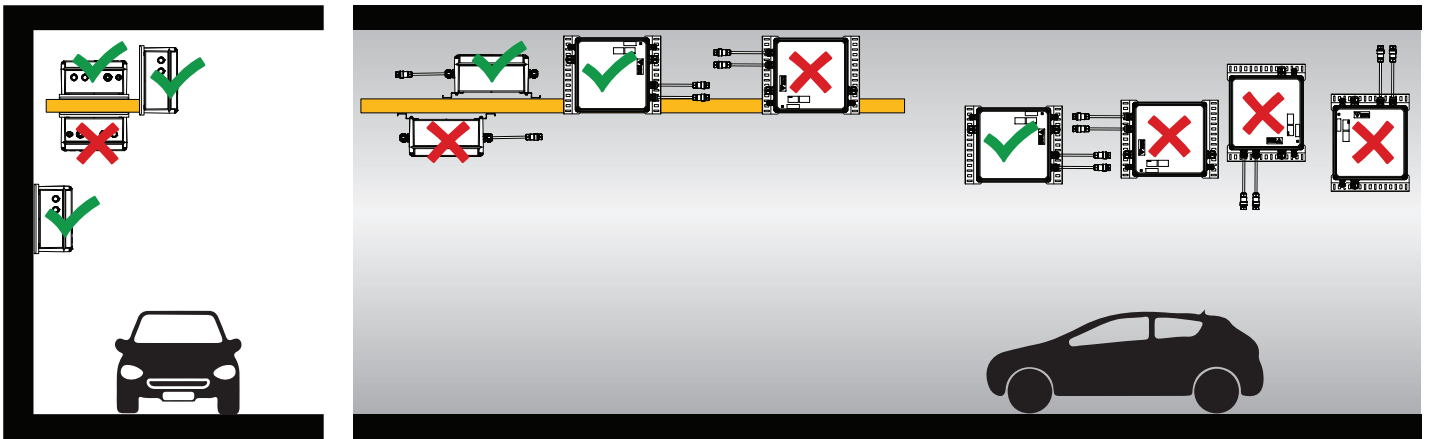
GP AL S - IN/OUT
GP AL MS - IN/OUT



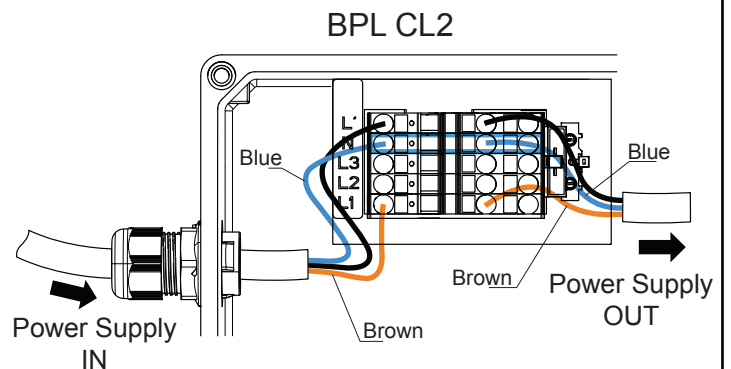
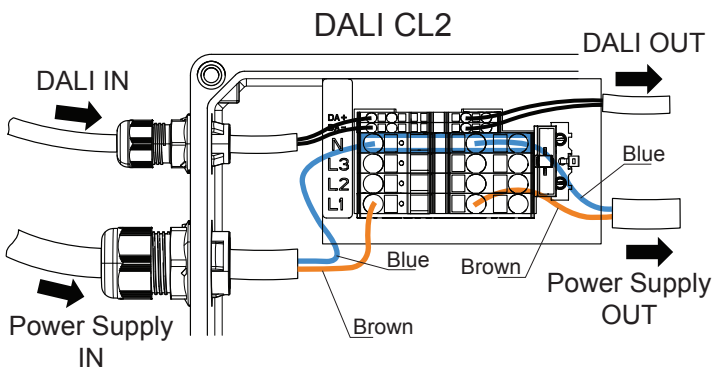
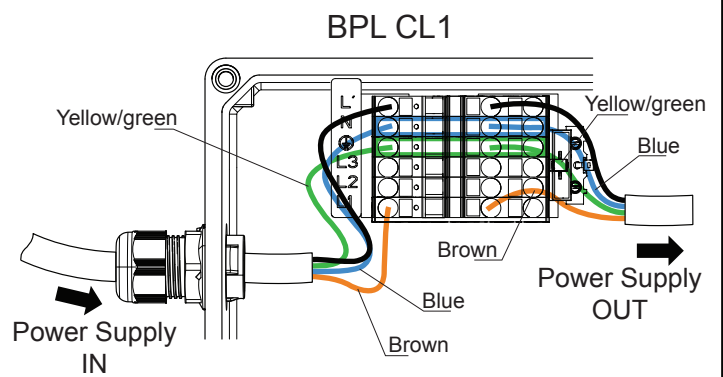
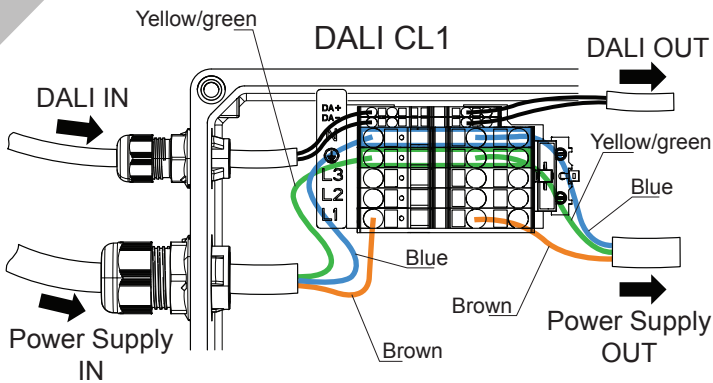
5 GP PB



6



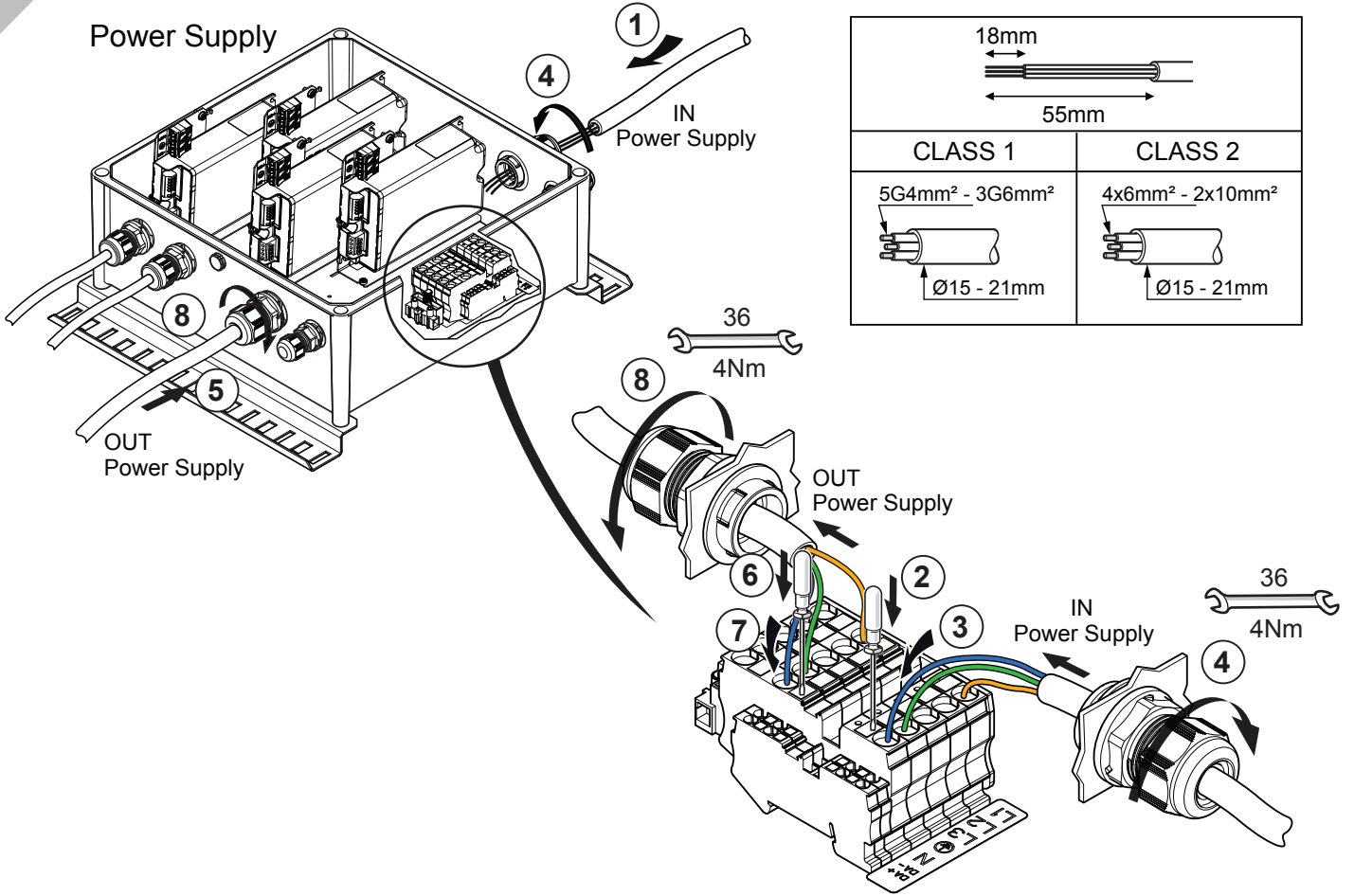
7



8

GP PB

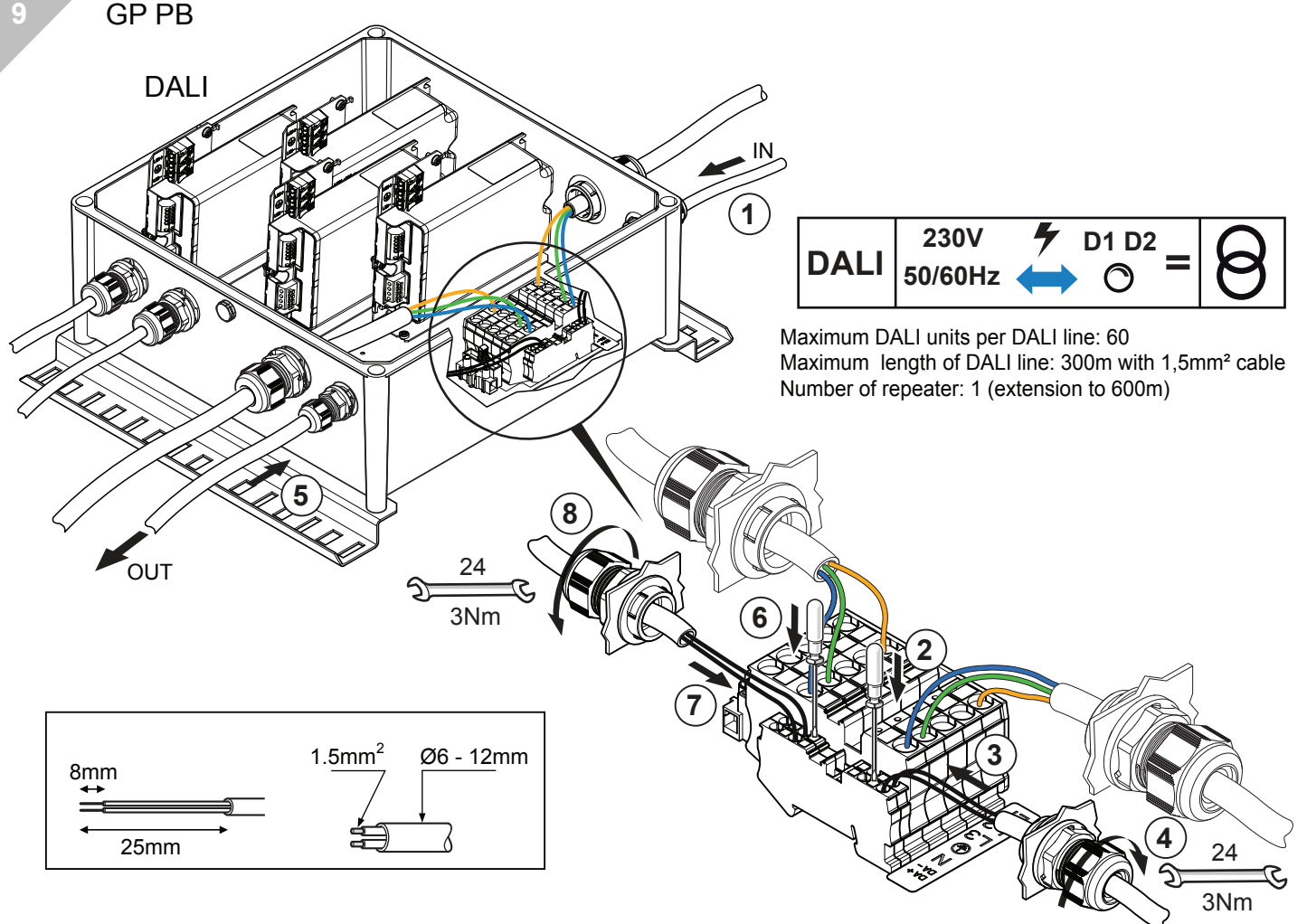
Power Supply

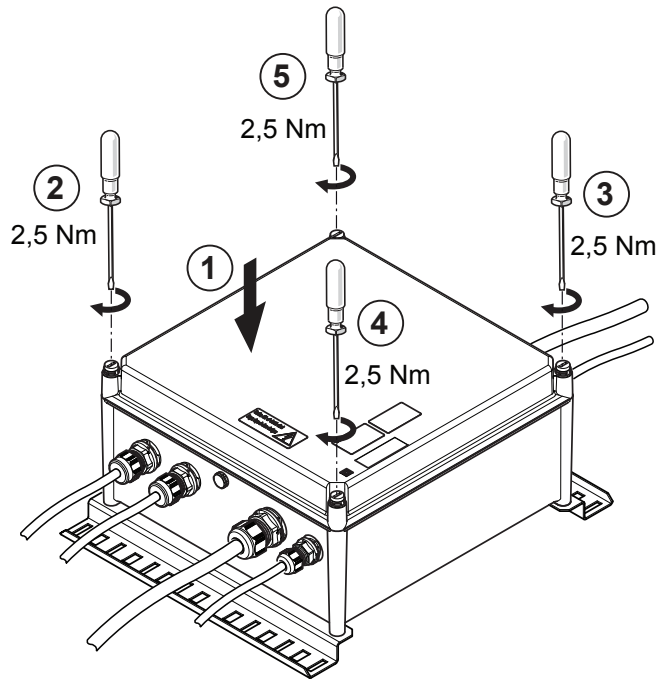


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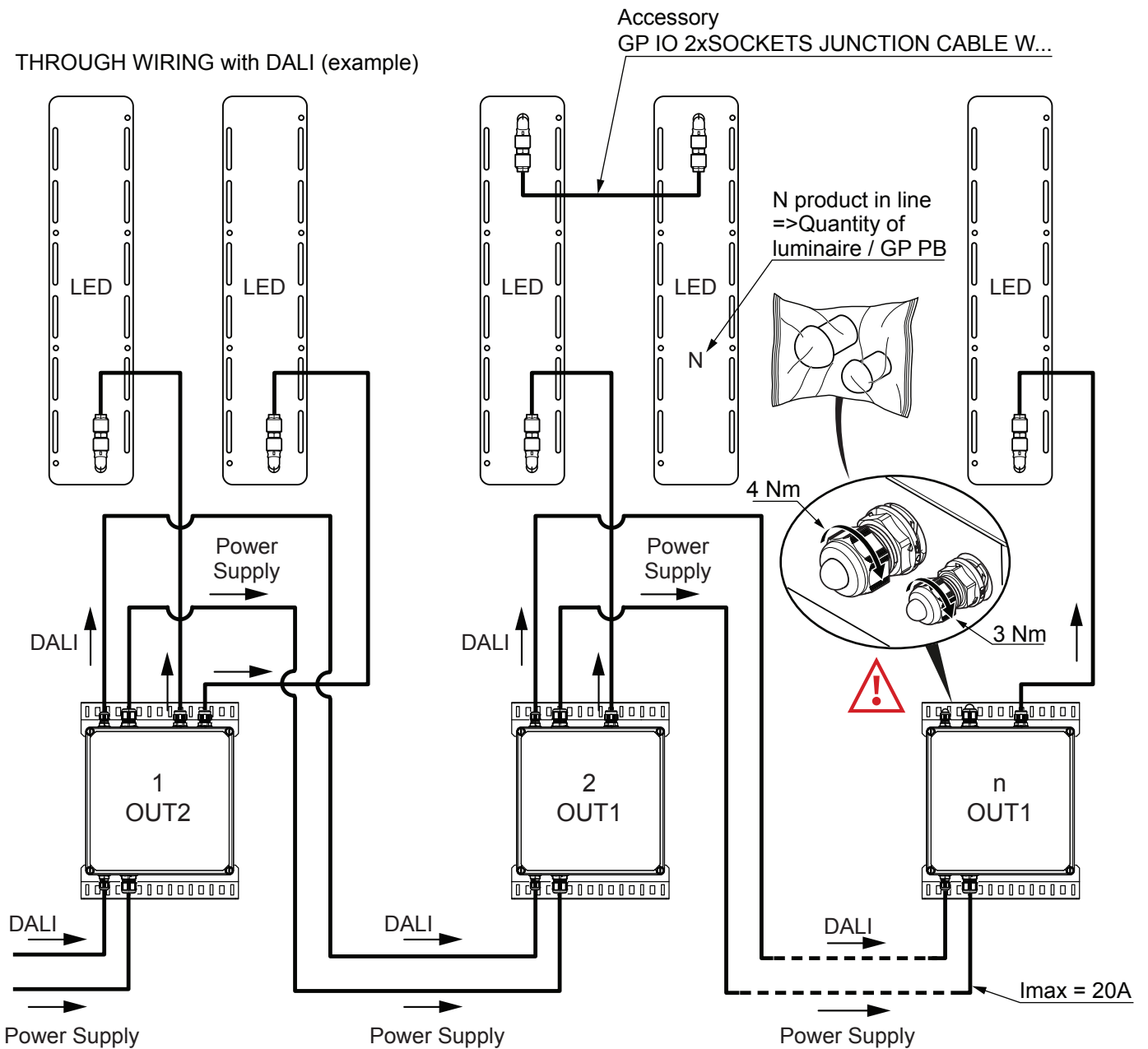
GP PB

DALI



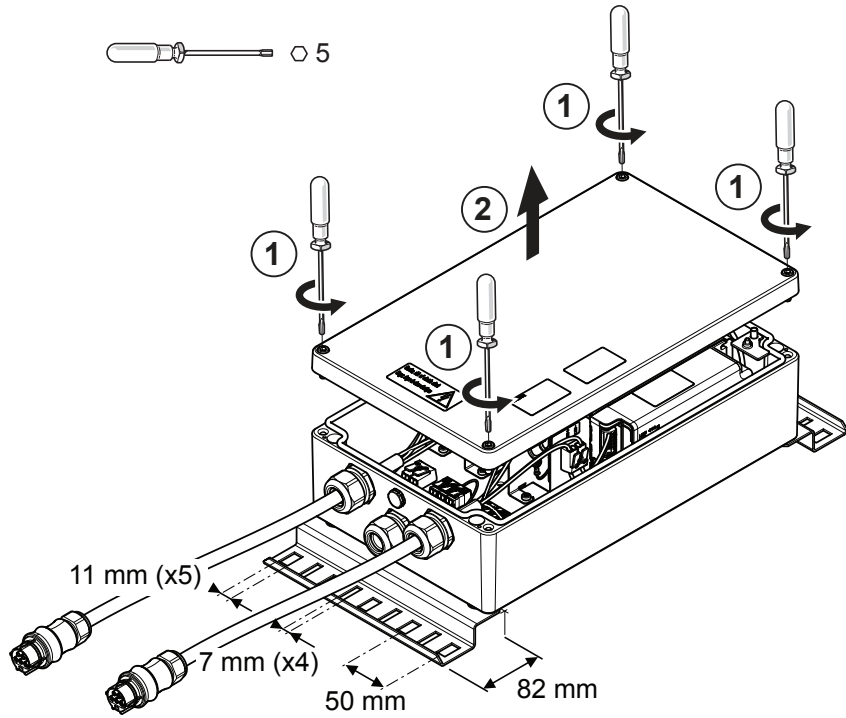


THROUGH WIRING with DALI (example)



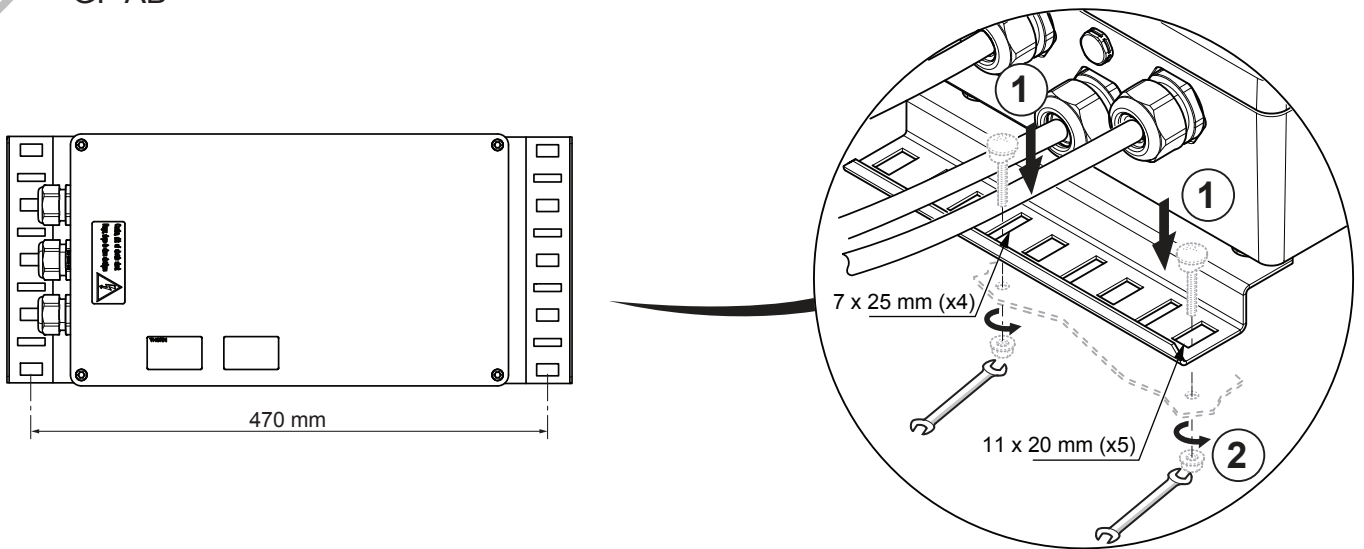
12

GP AB



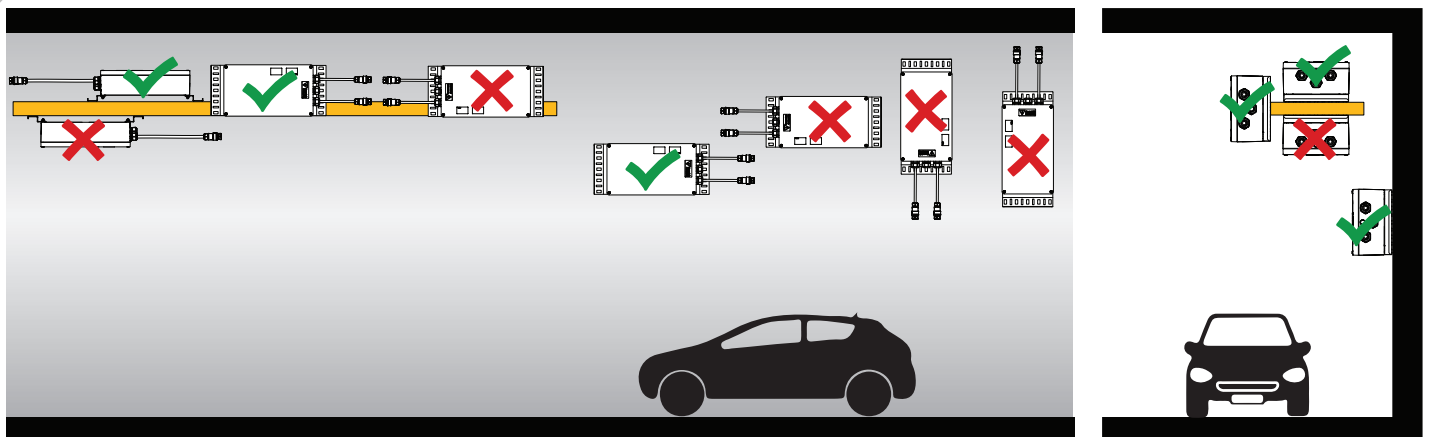
13

GP AB

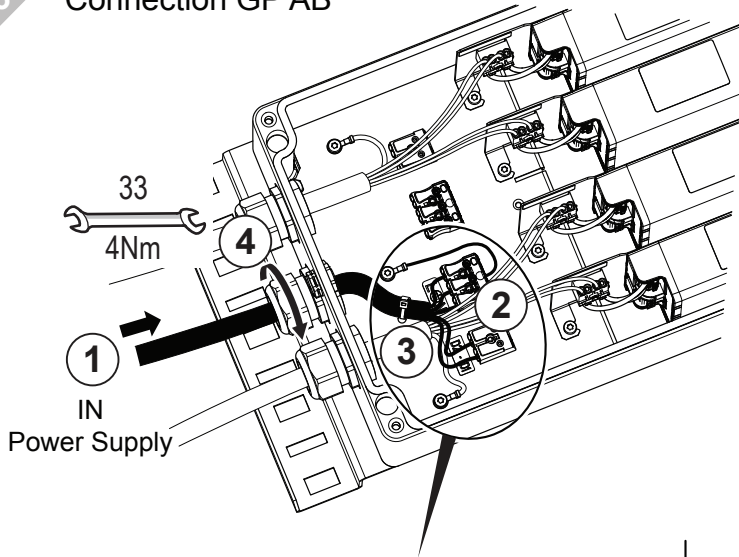


14

Installation GP AB

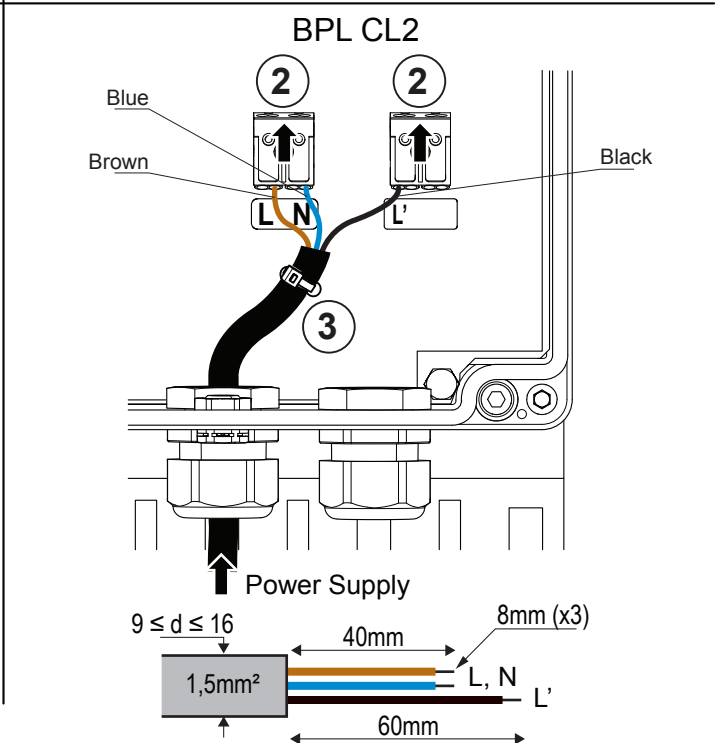
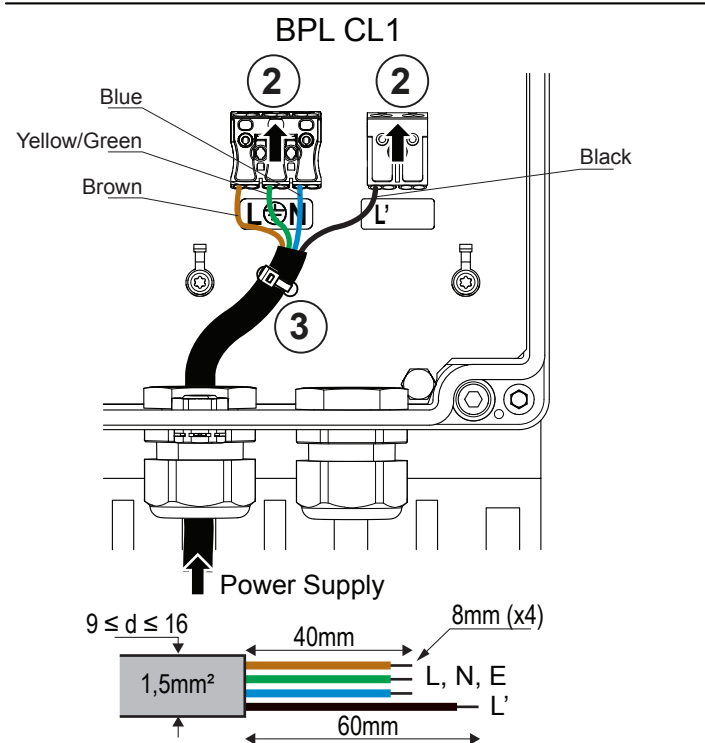
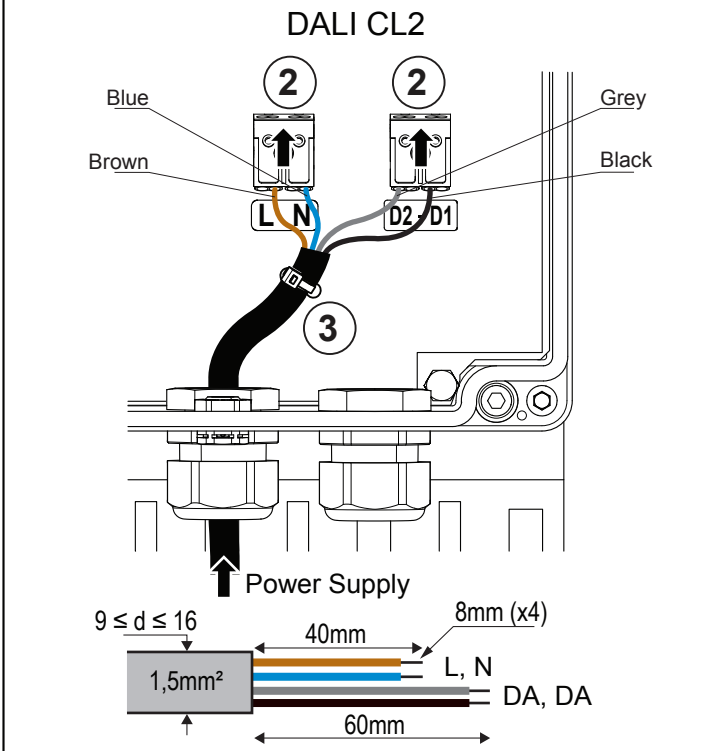
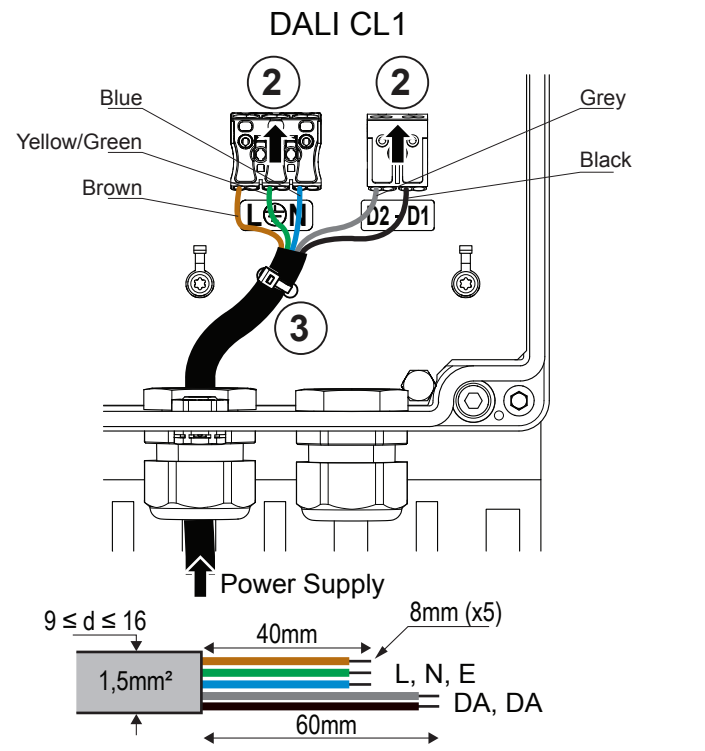


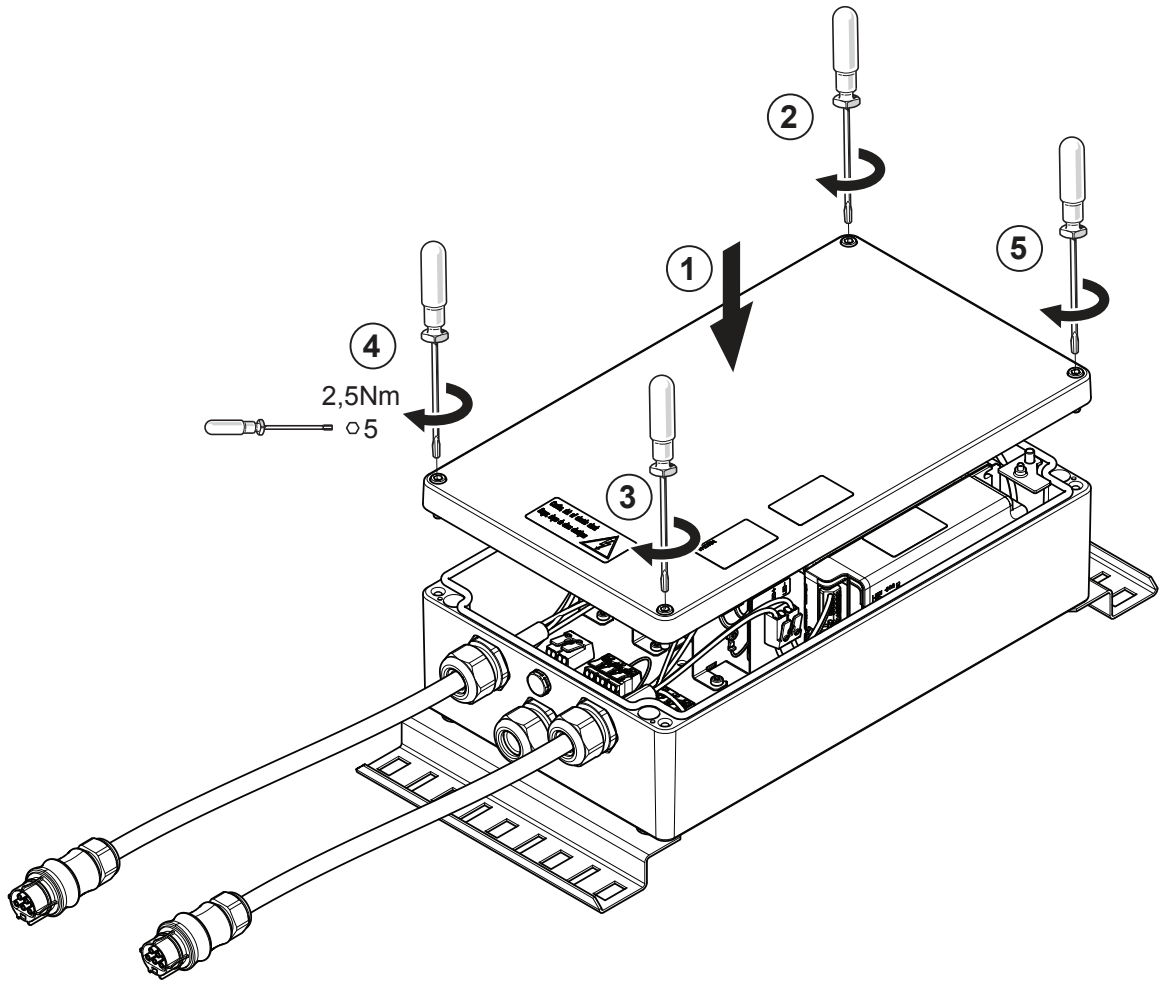
Connection GP AB



DALI	230V	⚡	D1 D2	=	⊗
	50/60Hz				

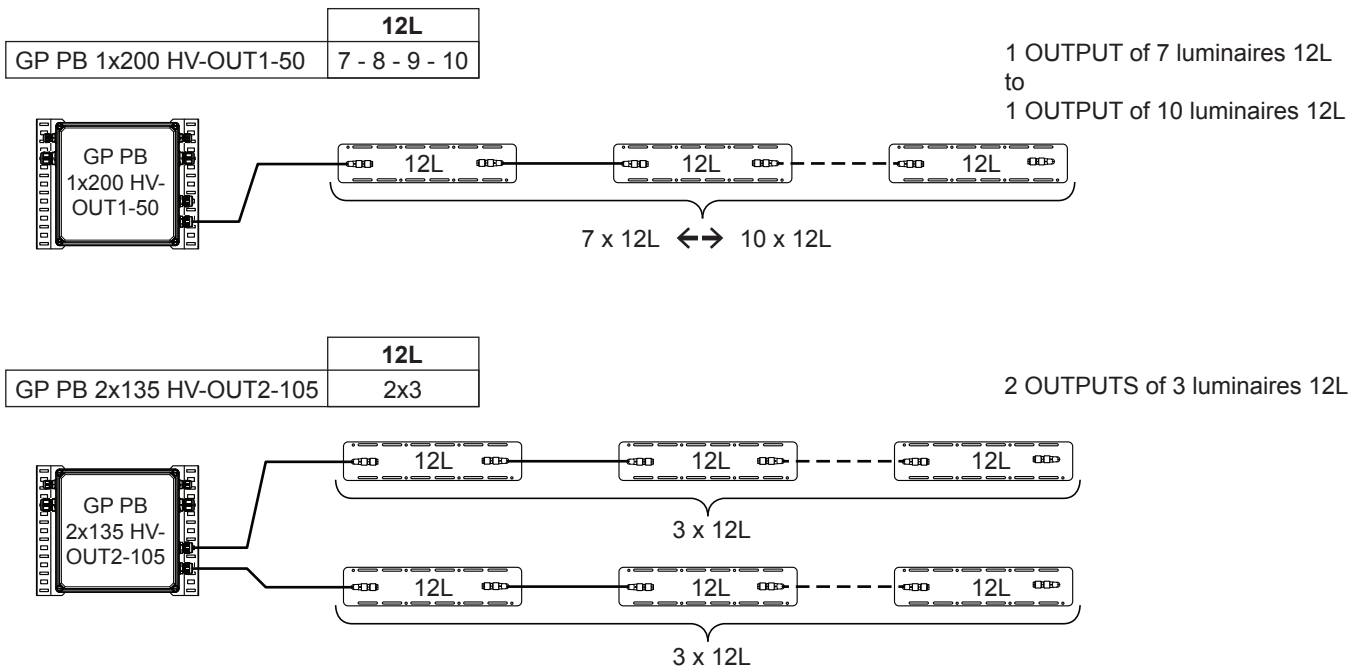
Maximum DALI units per DALI line: 60
 Maximum length of DALI line: 300m with 1,5mm² cable
 Number of repeater: 1 (extension to 600m)





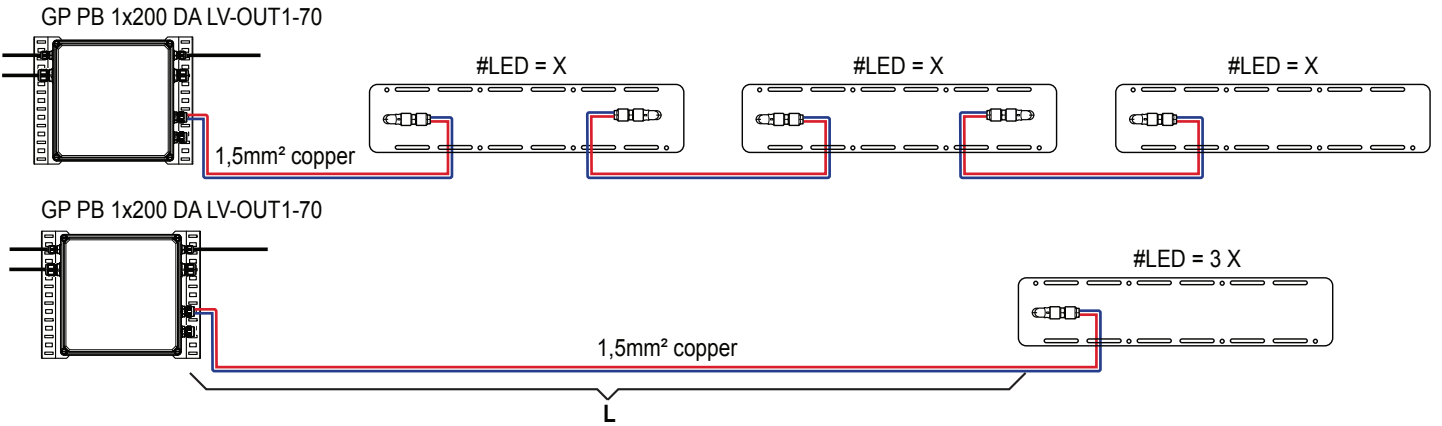
Designation	12L	24L	36L	48L	72L ≤850mA	72L 1050mA	108L	144L	216L ≤500mA	216L ≥700mA
GP ... 1x200 LV-OUT1-105	4 - 5	2		1						
GP ... 1x200 LV-OUT1-100	4 - 5	2		1						
GP ... 1x200 LV-OUT1-85	4 - 5	2		1						
GP ... 1x200 HV-OUT1-85	6	3	2		1					
GP ... 1x200 LV-OUT1-70	4 - 5	2		1						
GP ... 1x200 HV-OUT1-70	6 - 7 - 8	3 - 4	2	2	1					
GP ... 1x200 LV-OUT1-50	4 - 5 - 6	2		1						
GP ... 1x200 HV-OUT1-50	7 - 8 - 9 - 10	3 - 4	2 - 3	2	1					
GP ... 2x135 LV-OUT2-105	2x3		2x1							
GP ... 2x135 LV-OUT2-100	2x3		2x1							
GP ... 2x135 HV-OUT2-70	2x5									
GP ... 2x135 HV-OUT2-50	2x6	2x3	2x2		2x1					
GP ... 2x200 LV-OUT2-105	2x4 - 2x5	2x2		2x1						
GP ... 2x200 LV-OUT2-100	2x4 - 2x5	2x2		2x1						
GP ... 2x200 LV-OUT2-85	2x4 - 2x5	2x2		2x1						
GP ... 2x200 HV-OUT2-85	2x6	2x3	2x2		2x1					
GP ... 2x200 HV-OUT2-70	2x6 - 2x7 - 2x8	2x3 - 2x4	2x2	2x2	2x1					
GP ... 2x200 HV-OUT2-50	2x7 - 2x8 - 2x9 - 2x10	2x4 - 2x5	2x3	2x2						
GP ... 2x135 LV-OUT1-105						1				
GP ... 2x135 HV-OUT1-70							1			
GP ... 2x135 HV-OUT1-50							1	1		
GP ... 2x200 LV-OUT1-85							1			
GP ... 2x200 HV-OUT1-85								1		
GP ... 2x200 HV-OUT1-70								1		
GP ... 2x200 HV-OUT1-50									1	
GP ... 3x200 HV-OUT1-85										1
GP ... 3x200 HV-OUT1-70										1
GP ... 4x135 LV-OUT2-105						2x1				
GP ... 4x135 HV-OUT2-70							2x1			
GP ... 4x135 HV-OUT2-50							2x1	2x1		
GP ... 4x200 HV-OUT2-70								2x1		

Example



INSTALLATION

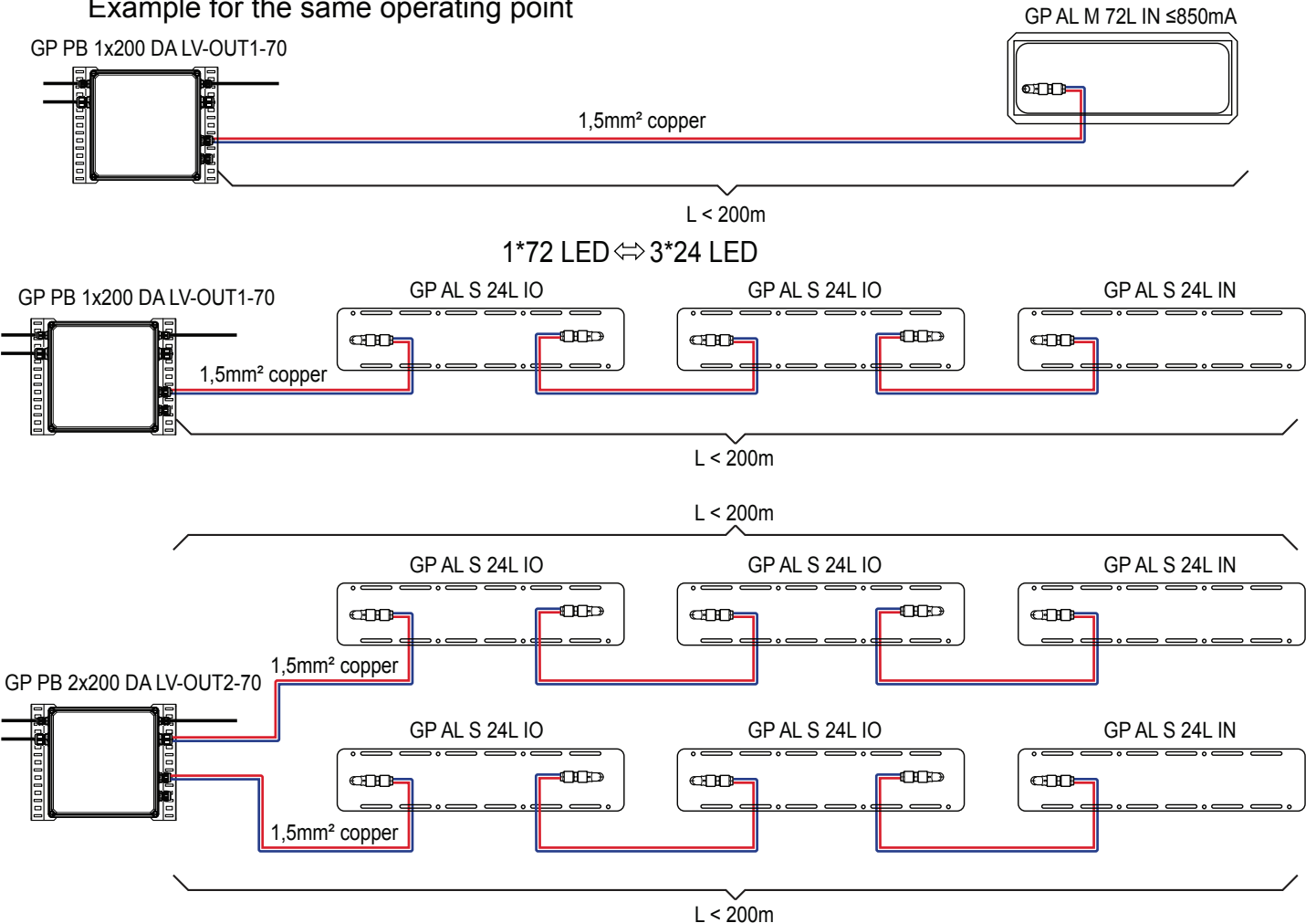
Maximum cable distance



Maximum cable voltage loss: 2% of total led output voltage (typ. @25°C)
 Cable 1,5mm² copper (0,023ohm.mm²/m)

Type of luminaire	Total LEDs per driver											
	12L	24L	36L	48L	54L	60L	72L	84L	96L	108L	120L	
1050	23	45	68	91	102	114	194	200	200	200	200	
1000	24	48	72	95	100	112	200	200	200	200	200	
850	28	56	84	112	118	131	200	200	200	200	200	
700	32	64	95	127	143	159	200	200	200	200	200	
500	44	87	131	175	200	200	200	200	200	200	200	

Example for the same operating point



Maximum Circuit Breaker 135W & 200W

135W

Maximum loading of automatic circuit breaker

Automatic circuit breaker type	C10	C13	C16	C20	B10	B13	B16	B20	Inrush current
Installation Ø	1.5mm ²	1.5mm ²	2.5mm ²	4mm ²	1.5mm ²	1.5mm ²	2.5mm ²	4mm ²	I _{max} time
LCO 135/200-1050/220 o4a NF C EXC3	5	7	8	10	3	4	5	6	65A 268ms

Calculation uses typical values from ABB series S200 as a reference.

Actual values may differ due to used circuit breaker types and installation environment.

200W

Maximum loading of automatic circuit breaker

Automatic circuit breaker type	C10	C13	C16	C20	B10	B13	B16	B20	Inrush current
Installation Ø	1.5mm ²	1.5mm ²	2.5mm ²	4mm ²	1.5mm ²	1.5mm ²	2.5mm ²	4mm ²	I _{max} time
LCO 200/200-1050/355 o4a NF C EXC3	6	10	13	16	4	6	8	10	80A 225ms

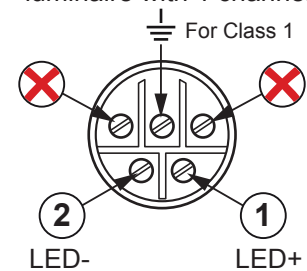
Calculation uses typical values from ABB series S200 as a reference.

Actual values may differ due to used circuit breaker types and installation environment.

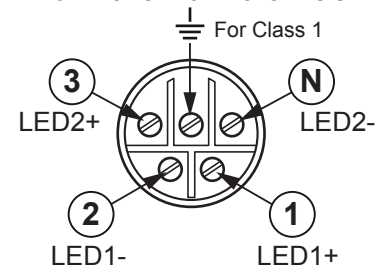
Luminaire functional data

Voltage min and max to power the luminaire for L = 100 m @ Ta 25°C				
Type of luminaire	Current (mA)	U min (Vdc) per channel	U MAX (Vdc) per channel	Wiring type
GP AL S 12L ...	500	40	400	A
	700			
	850			
	1000			
	1050			
GP AL S 24L ...	500	75	400	A
	700			
	850			
	1000			
	1050			
GP AL S 36L ...	500	110	400	A
	700			
	850			
	1000			
	1050			
GP AL S 48L ...	500	150	400	A
	700			
	850			
	1000			
	1050			
GP AL M 72L ... ≤850mA	500	220	400	A
	700			
	850			
GP AL M 72L ... 1050mA	1050	110	400	B
GP AL M 108L ...	500	165	400	B
	700			
	850			
GP AL L 144L ...	500	220	400	B
	700			
	850			
GP AL M 216L ... ≤500mA	500	330	400	B
GP AL M 216L ... ≥700mA	700	220	400	C
	850			

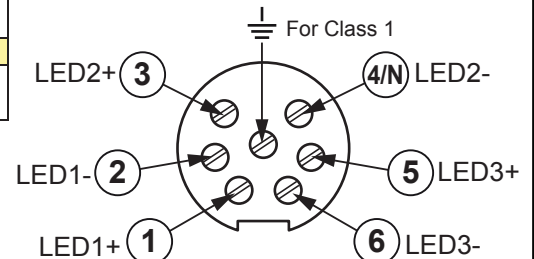
Wiring type A
luminaire with 1 channel

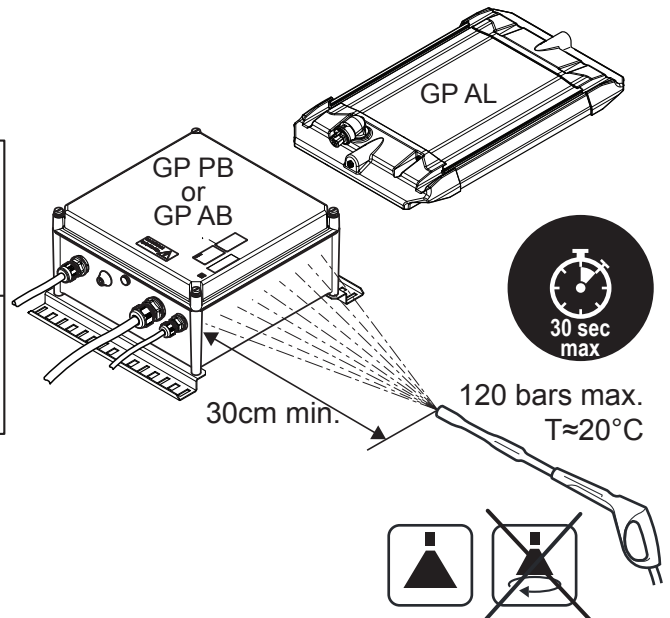
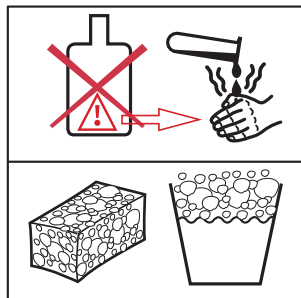
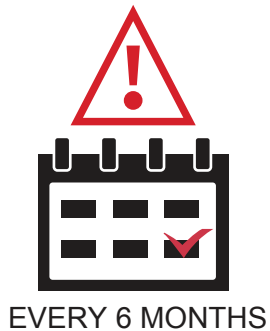


Wiring type B
luminaire with 2 channels



Wiring type C
luminaire with 3 channels



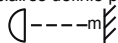


FRANCAIS

- 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.

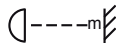


SVERIGE

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

WARNING: Klass I armaturer måste vara jordade.

- Denna armatur fungerar med högspänning som måste vara frånslagen före ingripande i driftdonen.
- Alla ändringar i denna armatur är förbjuden.

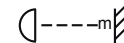


ITALIANO

- 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.

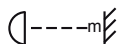


ENGLISH

- 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.

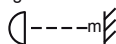


DEUTSCH

- 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.

- Verkköjännite on kytkettävä pois ennen valaisimen huoltotoimenpiteitä.
- Valaisimen rakennetta ei saa muuttaa.

