

- 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

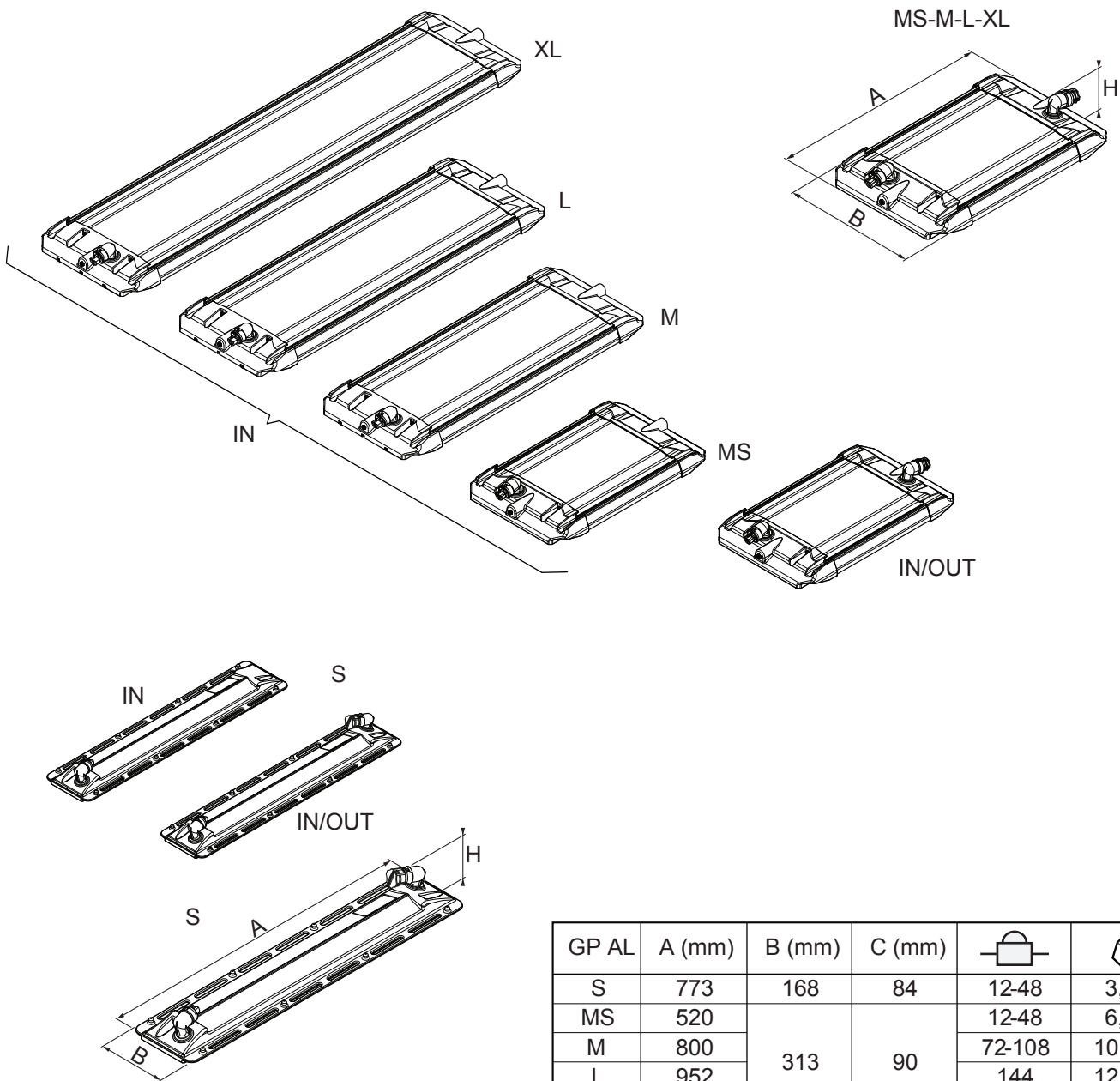


The luminaire should be positioned so that prolonged staring into the luminaire at a distance <2m is not expected



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



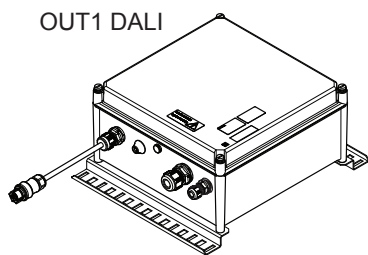
CE IK08 IP66

TYPE : GP PB

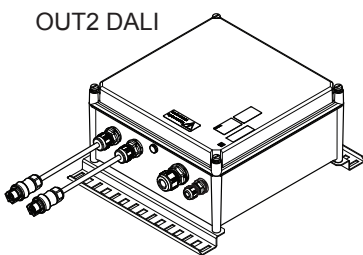
Caution, risk of electric shock
Danger, risque de chocs électriques



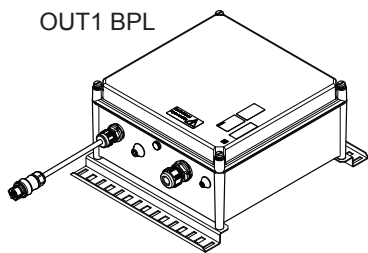
OUT1 DALI



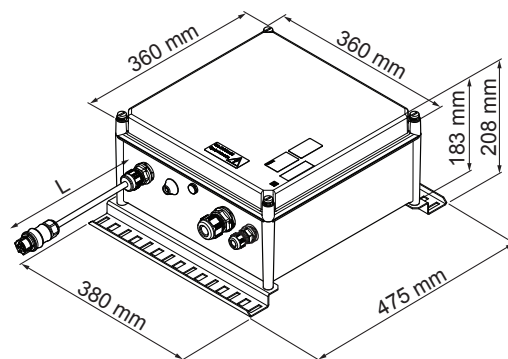
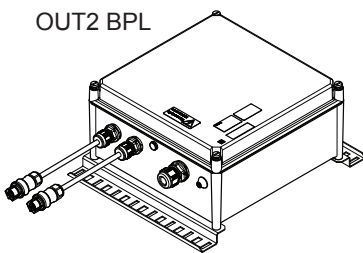
OUT2 DALI



OUT1 BPL



OUT2 BPL



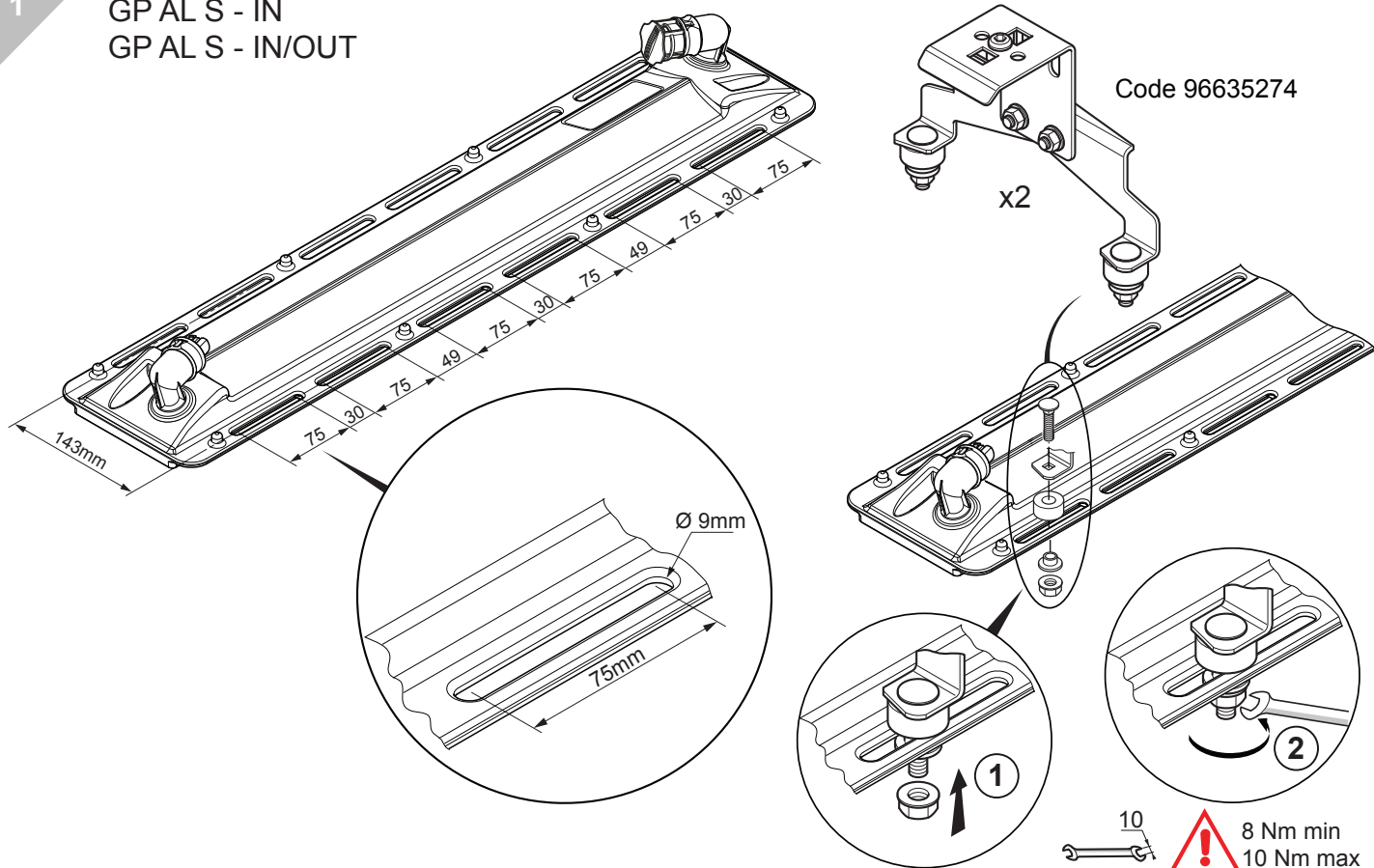
GP PB		L(m)	
1x200W	OUT1	1,5 <-> 8	6,6 <-> 7,6kg
2x135W	OUT1	1,5 <-> 8	7,6 <-> 9,1kg
2x200W	OUT1	1,5 <-> 8	8,1 <-> 9,6kg
2x135W	OUT2	1,5 <-> 8	7,8 <-> 9,7kg
2x200W	OUT2	1,5 <-> 8	8,2 <-> 10,1kg
3x200W	OUT1	1,5 <-> 8	9,5 <-> 11,7kg
4x135W	OUT2	1,5 <-> 8	10,1 <-> 13,1kg
4x200W	OUT2	1,5 <-> 8	11 <-> 14kg



CLASS I CLASS II

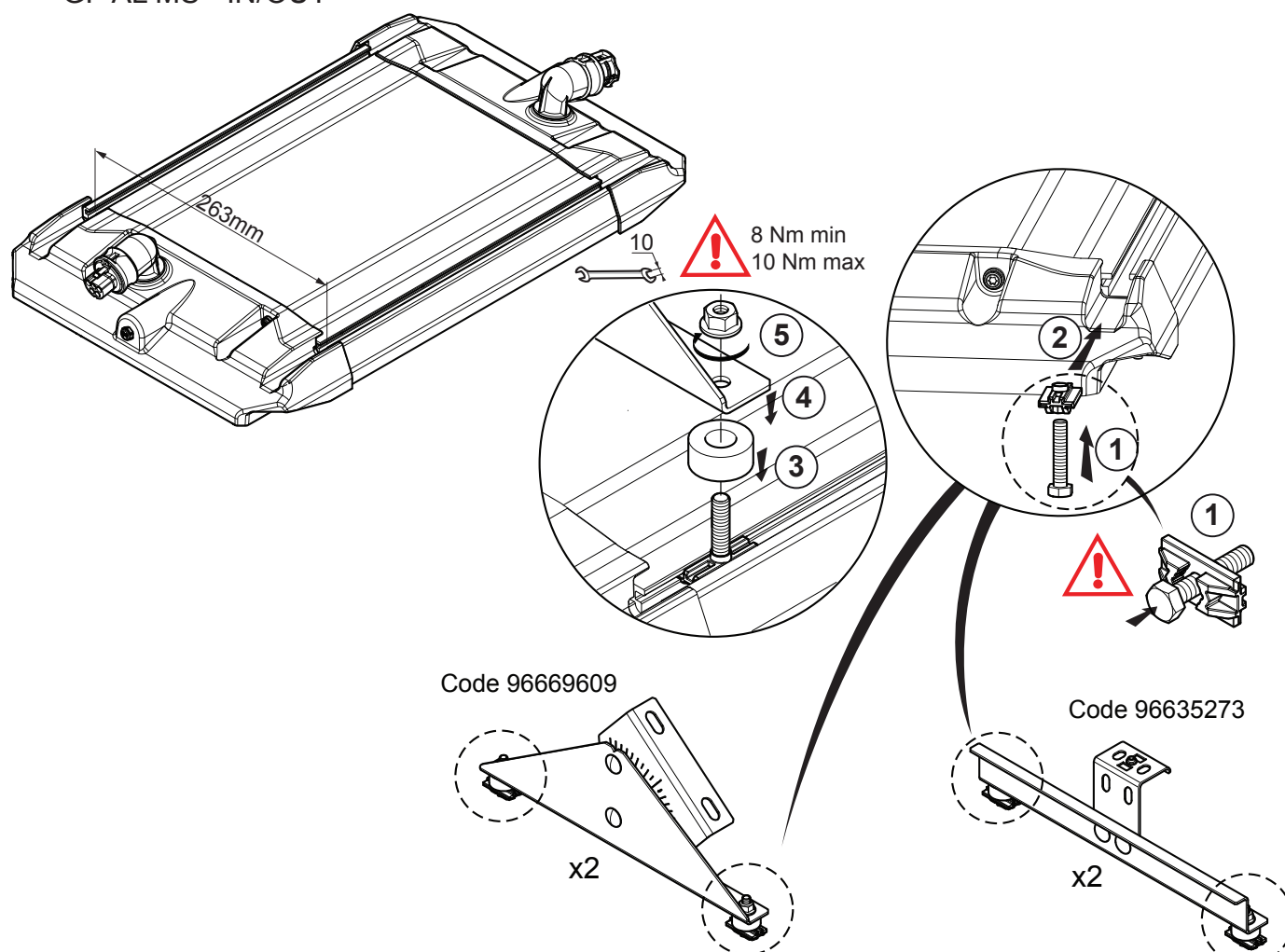
1

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



2

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

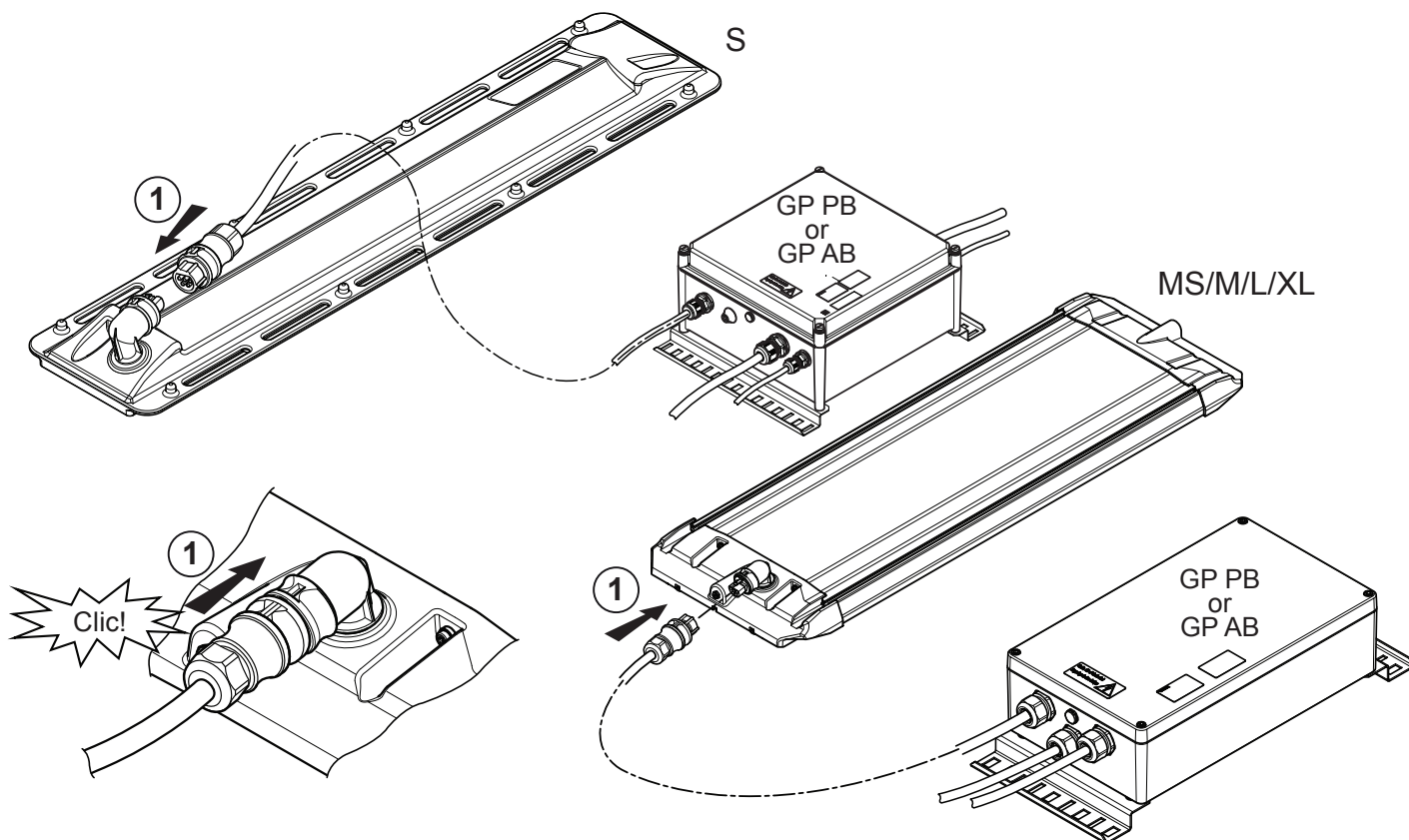




SWITCH OFF POWER BEFORE
CONNECTING LUMINAIRE

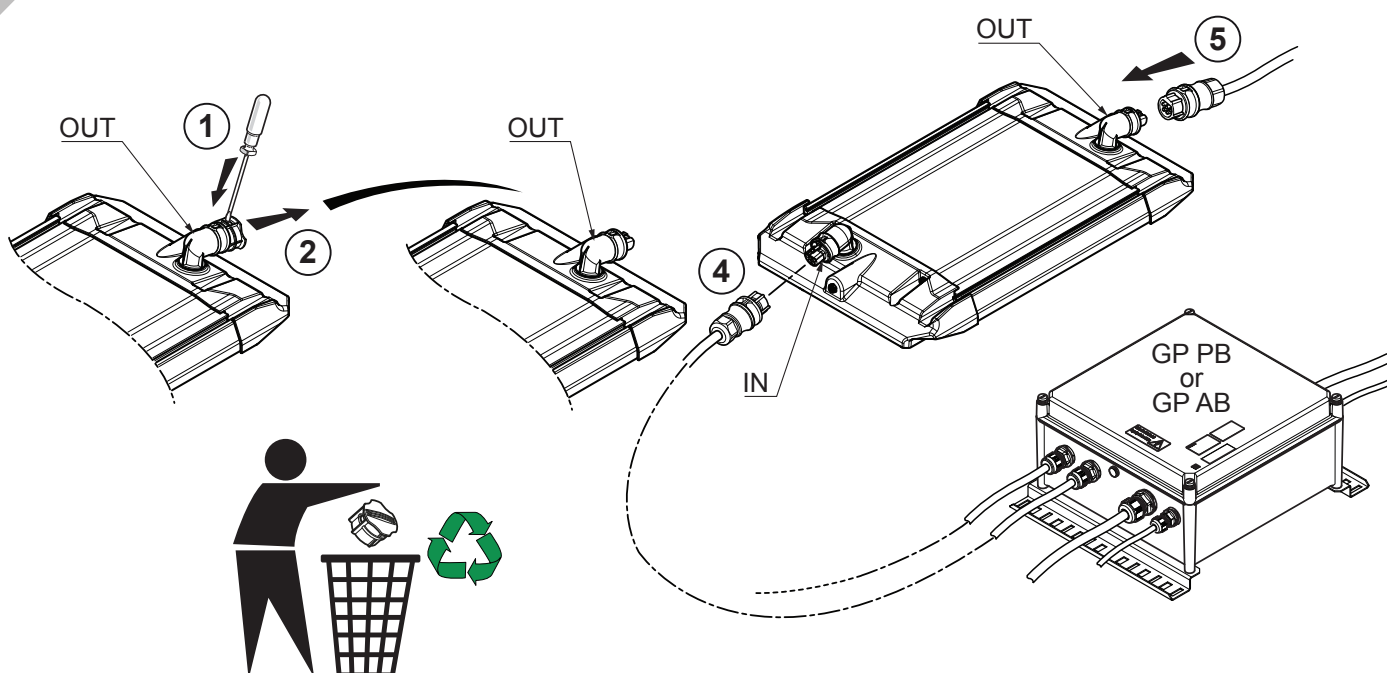
3

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



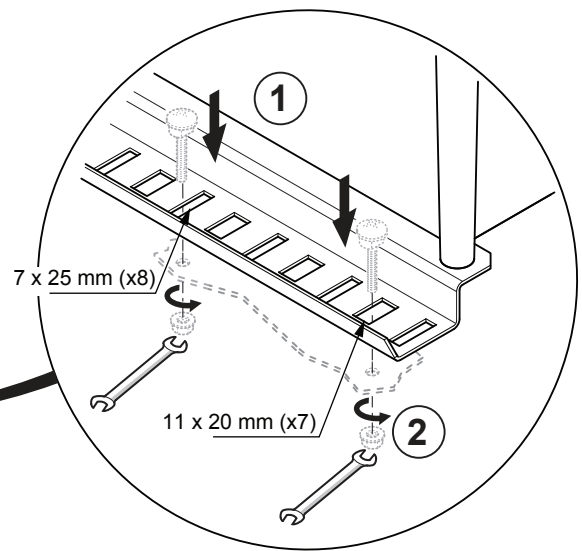
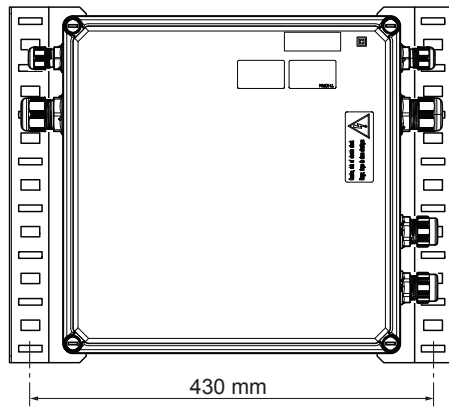
4

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

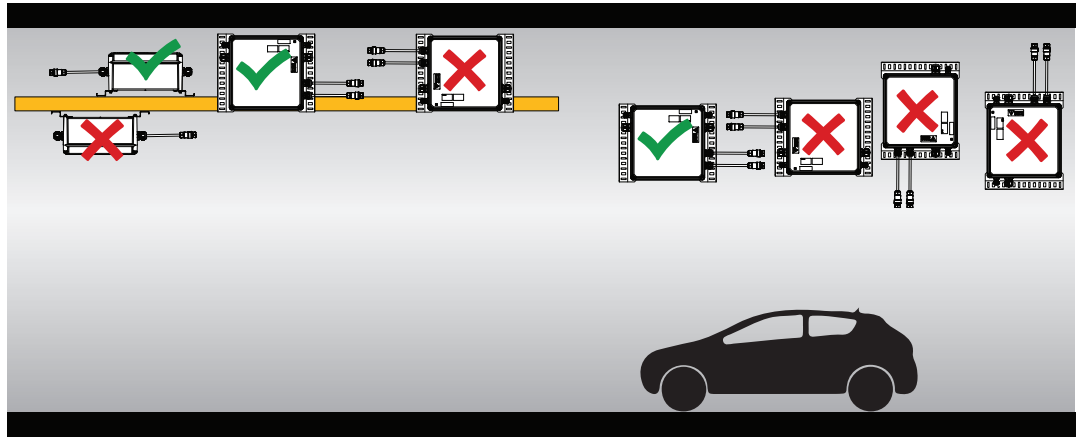
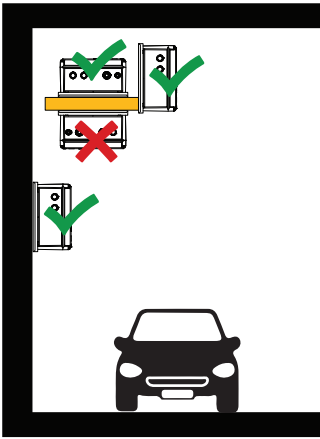


5

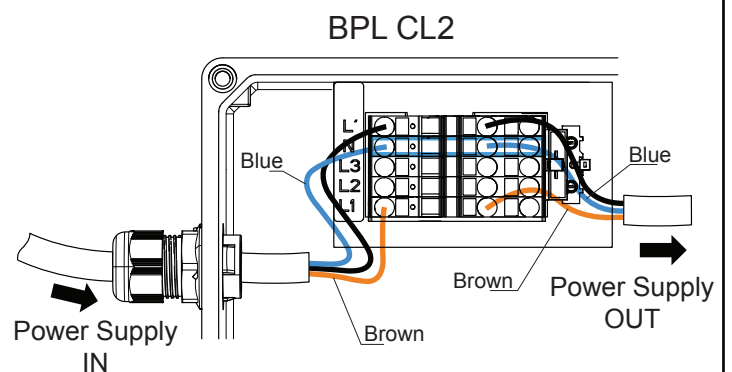
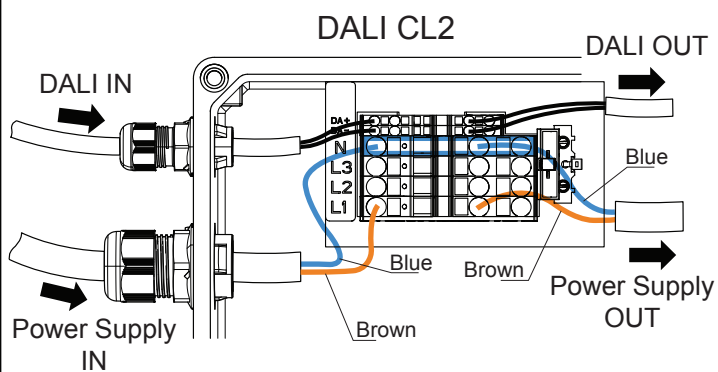
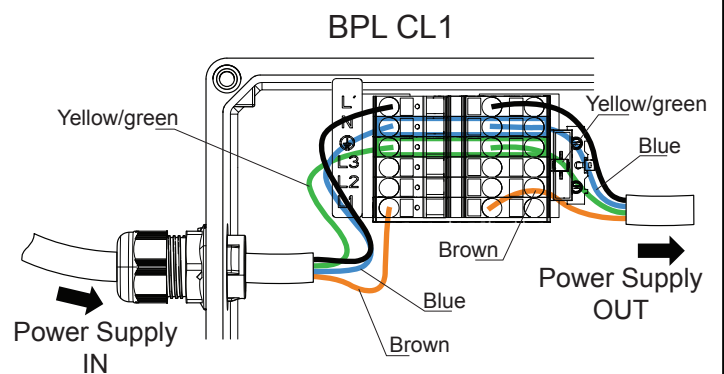
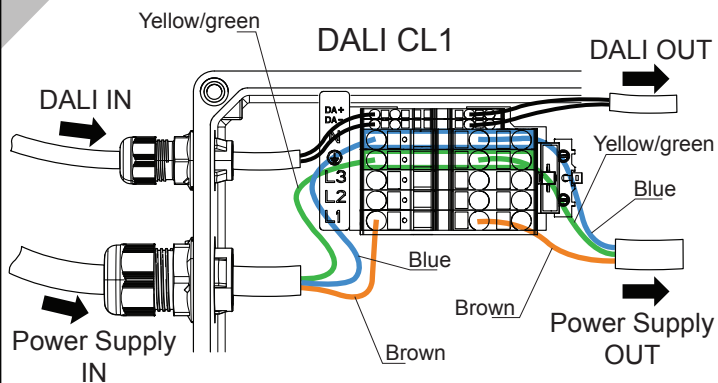
GP PB



6



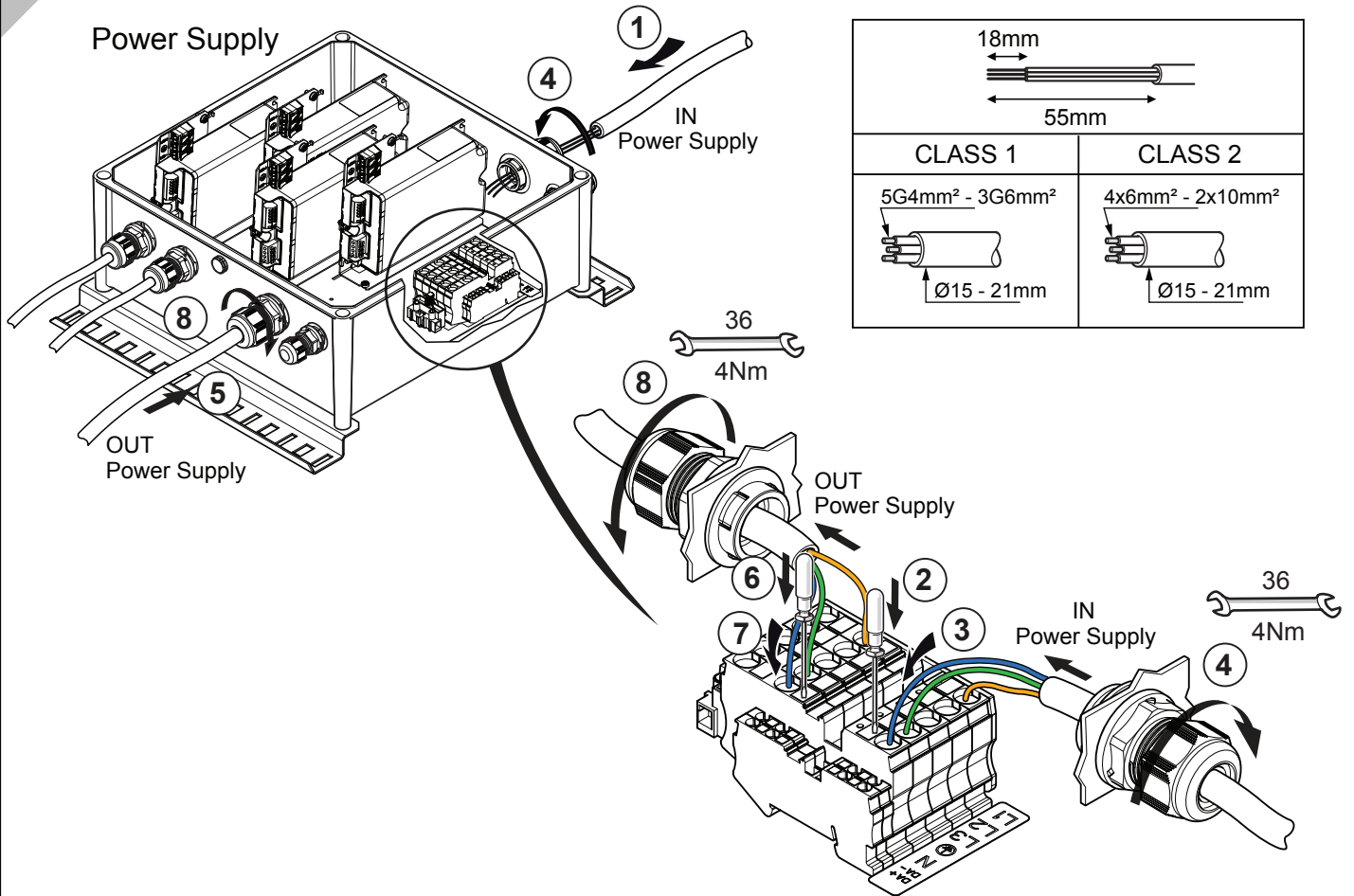
7



8

GP PB

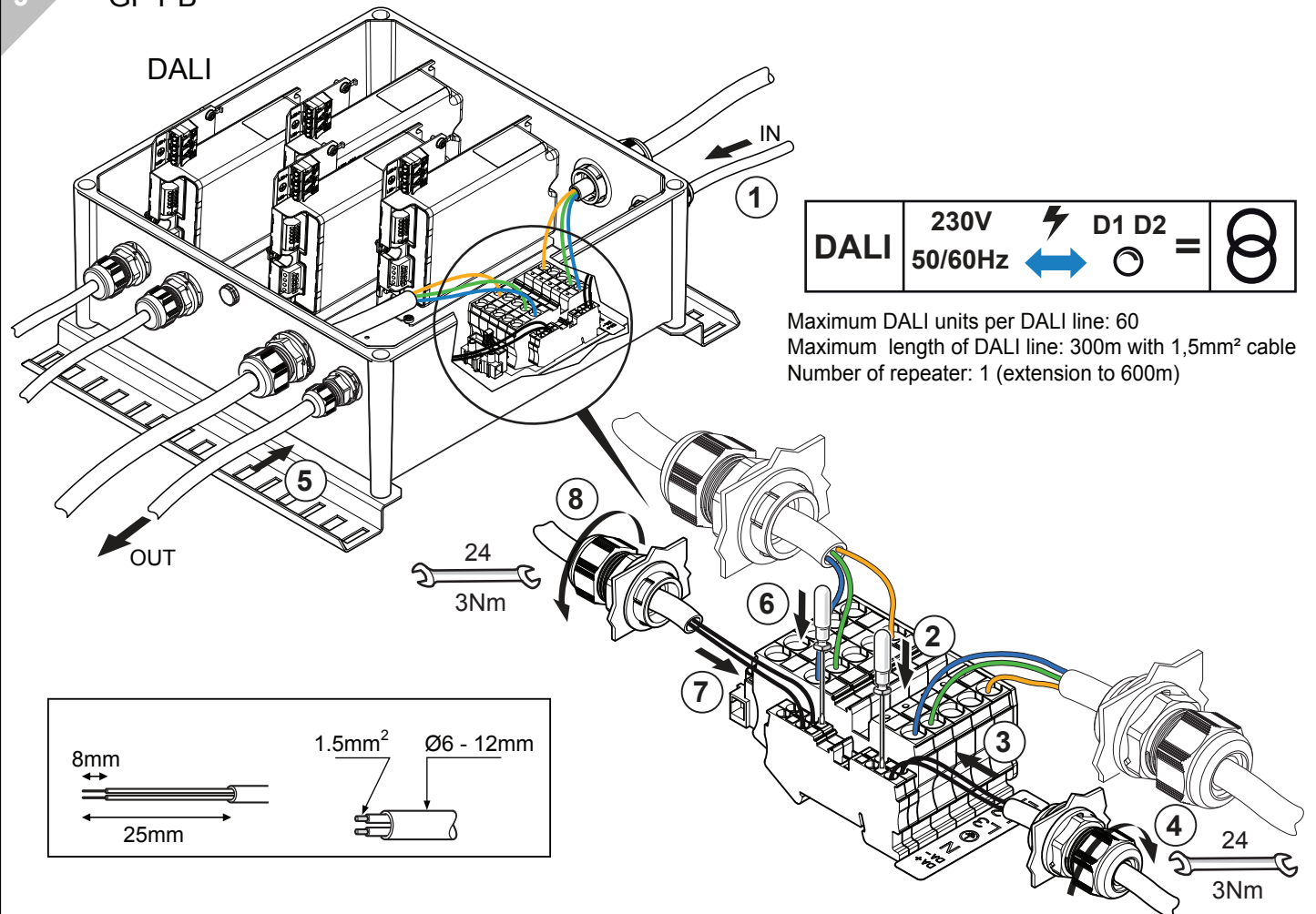
Power Supply

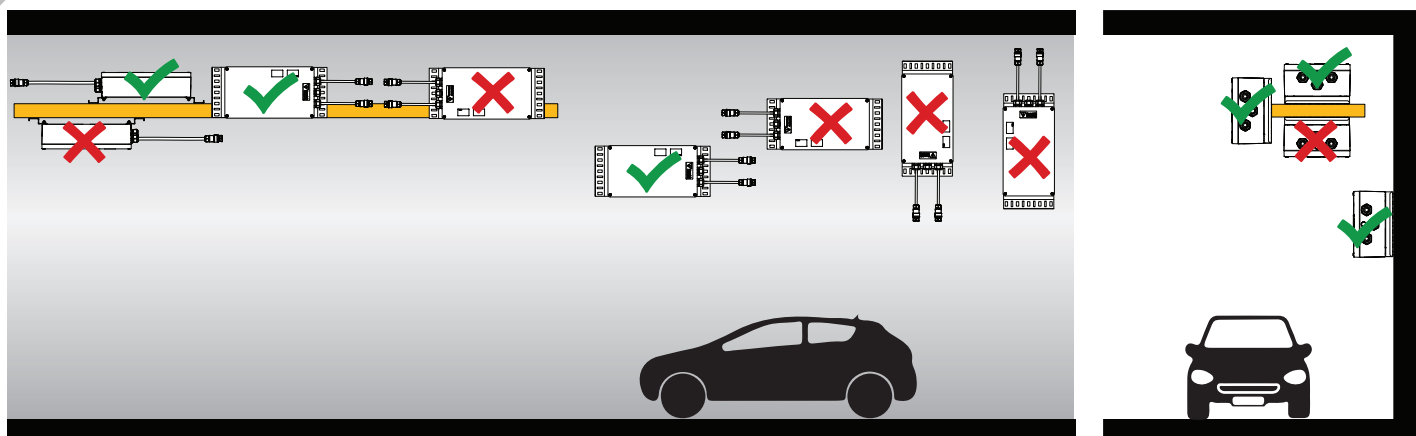
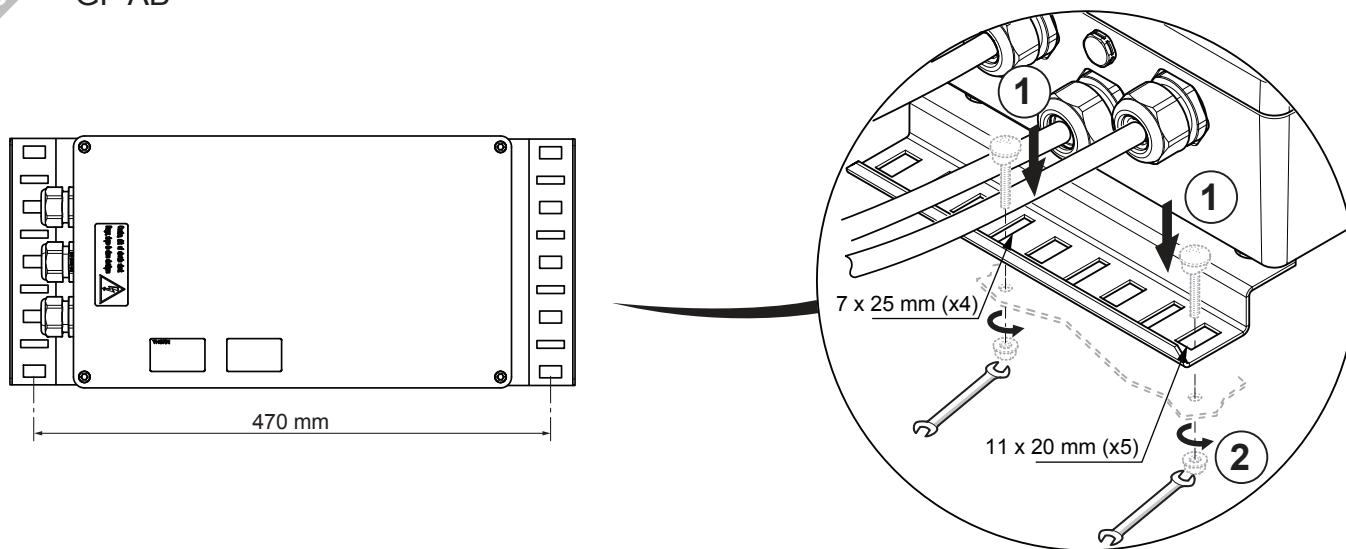
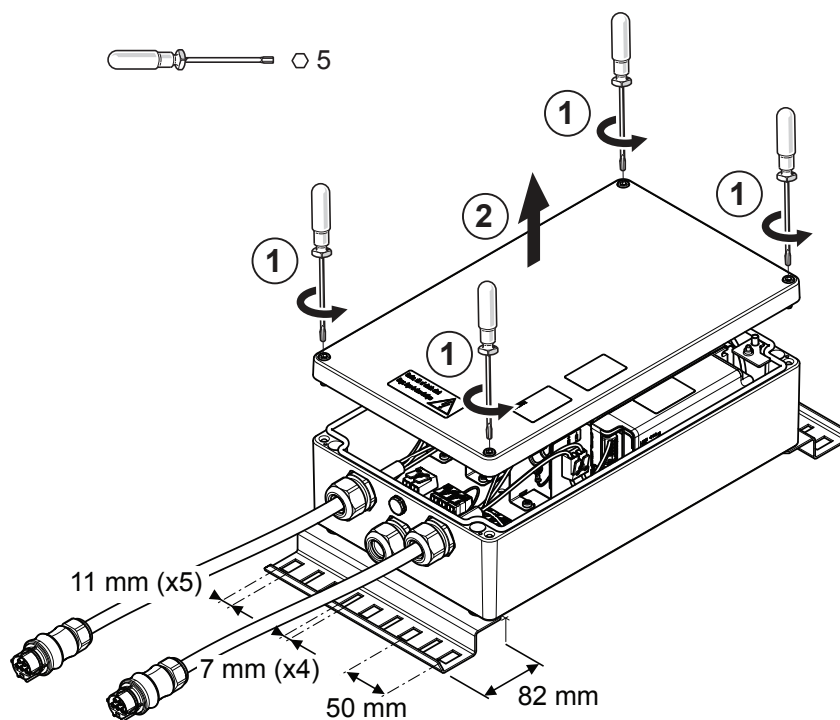


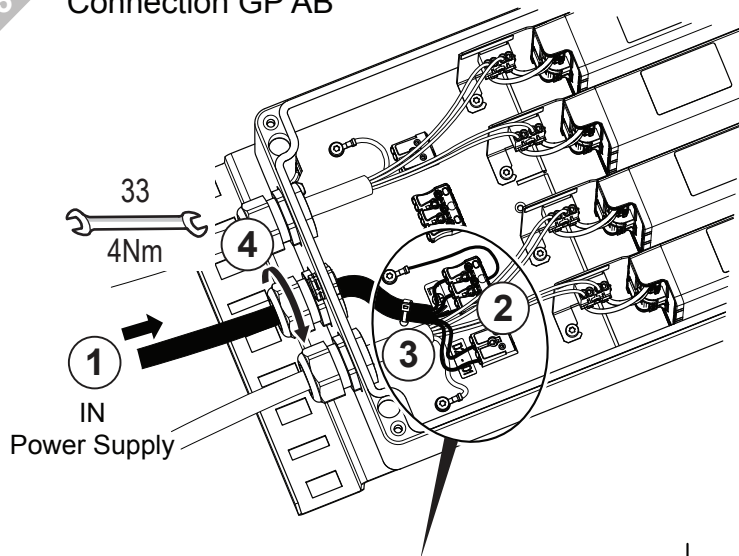
9

GP PB

DALI







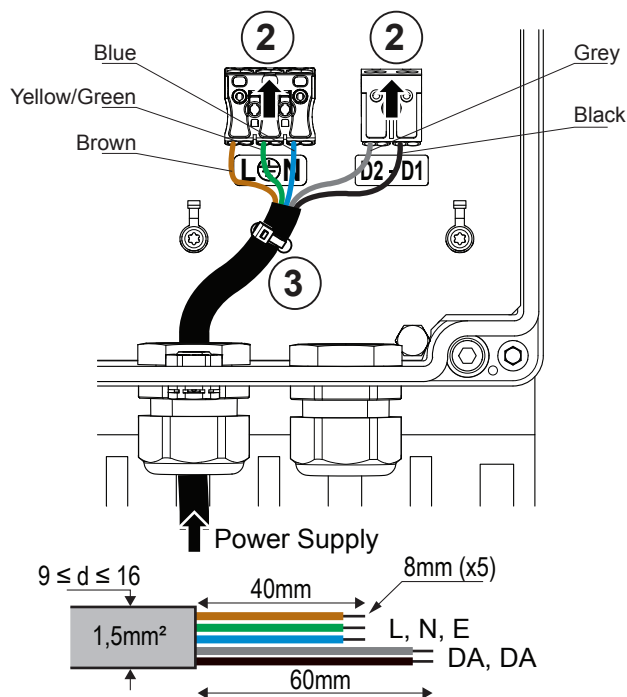
DALI	230V	⚡	D1 D2	=	8
	50/60Hz				

Maximum DALI units per DALI line: 60

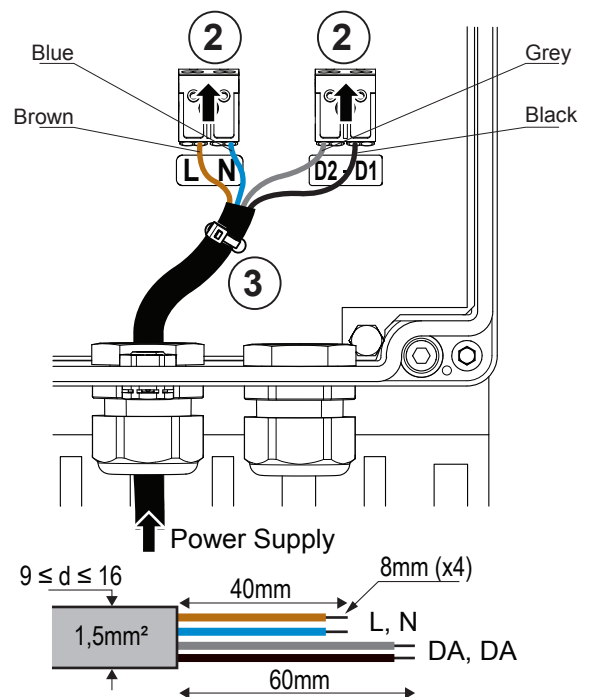
Maximum length of DALI line: 300m with 1,5mm² cable

Number of repeater: 1 (extension to 600m)

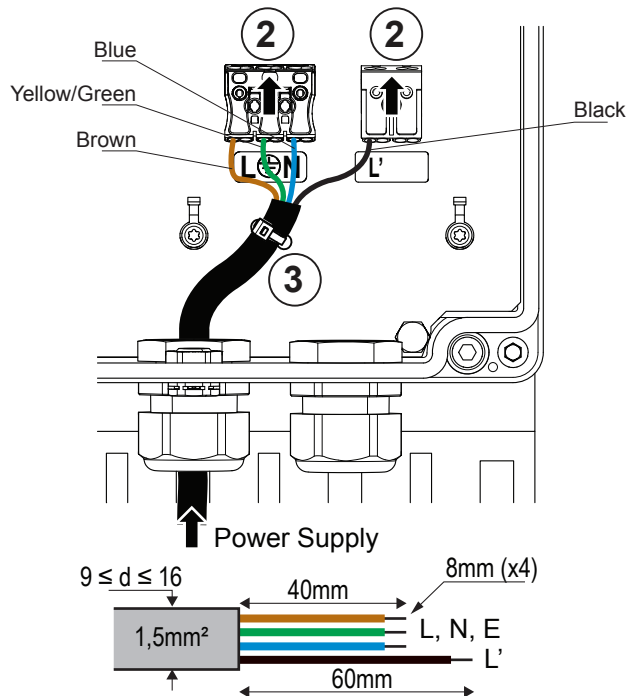
DALI CL1



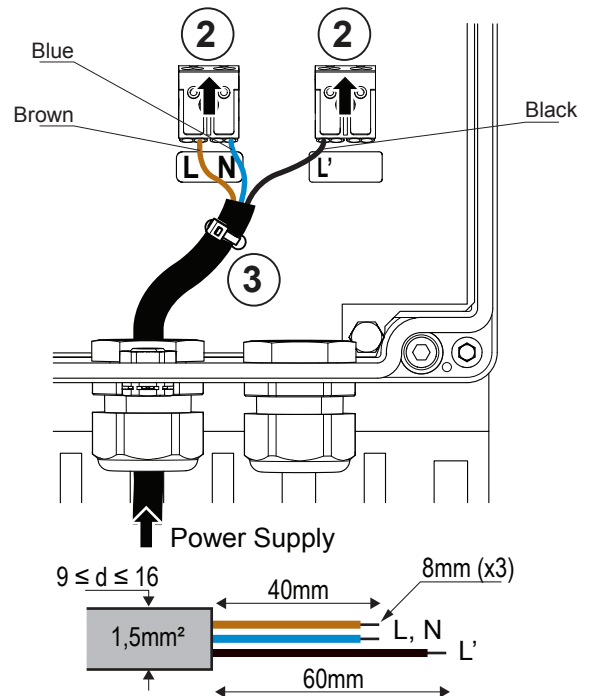
DALI CL2

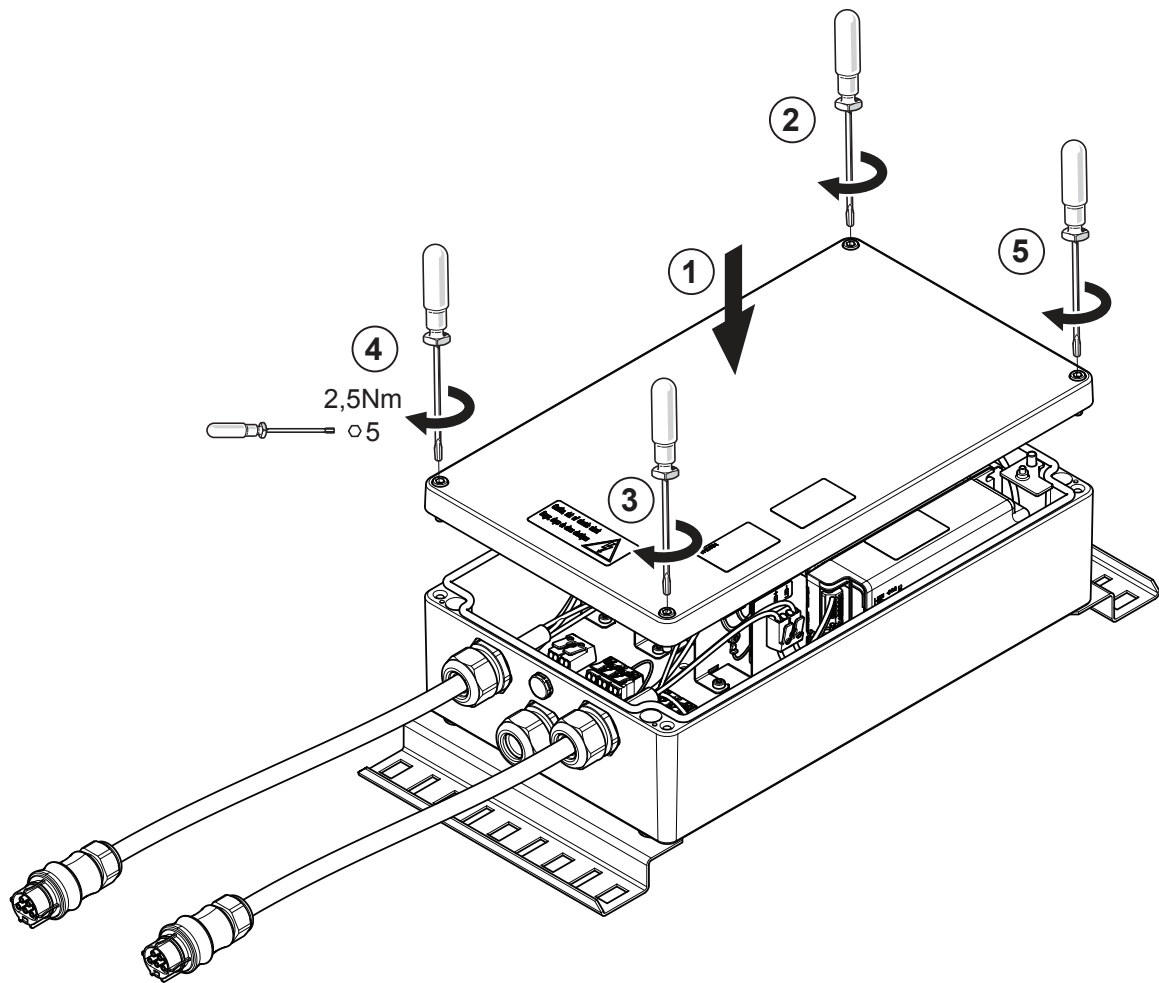


BPL CL1



BPL CL2



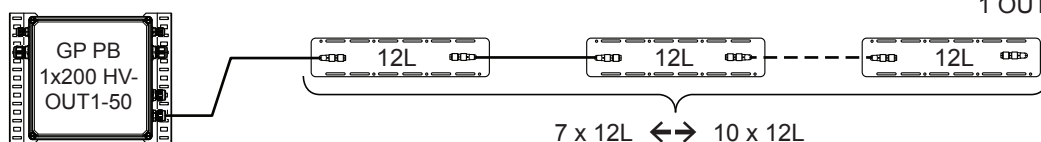


Designation	12L	24L	36L	48L	72L ≤850mA	72L 1050mA	108L	144L	216L ≤500mA	216L ≥700mA
GP ... 1x200 LV-OUT1-105	4 - 5	2		1						
GP ... 1x200 LV-OUT1-100	4 - 5	2		1						
GP ... 1x200 LV-OUT1-85	4 - 5	2		1						
GP ... 1x200 HV-OUT1-85	6	3	2		1					
GP ... 1x200 LV-OUT1-70	4 - 5	2		1						
GP ... 1x200 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

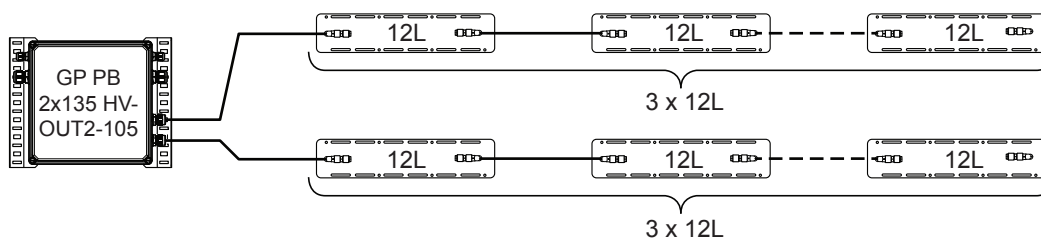
	12L
GP PB 1x200 HV-OUT1-50	7 - 8 - 9 - 10

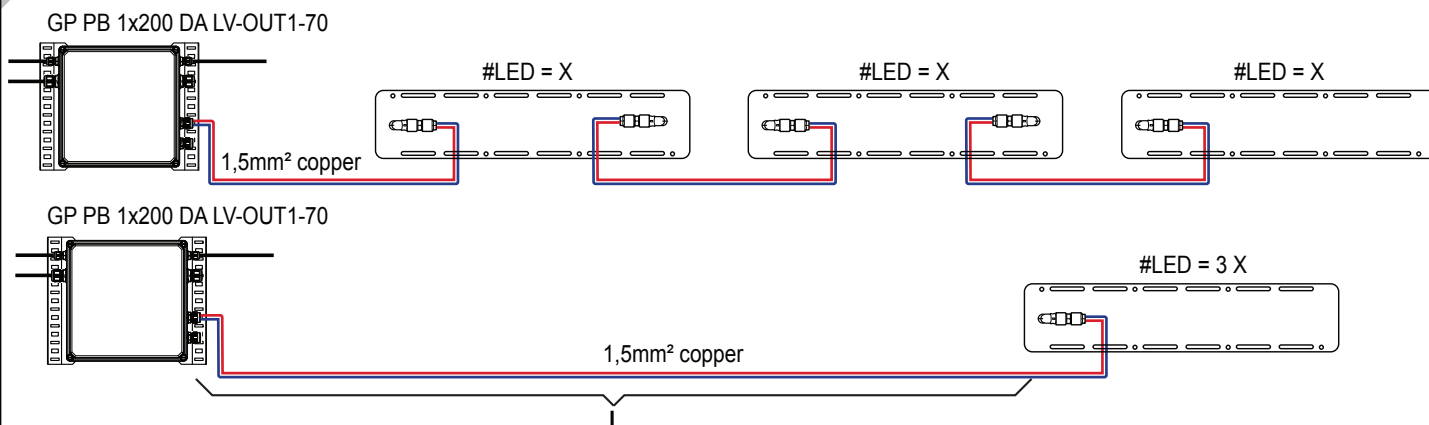
1 OUTPUT of 7 luminaires 12L
to
1 OUTPUT of 10 luminaires 12L



	12L
GP PB 2x135 HV-OUT2-105	2x3

2 OUTPUTS of 3 luminaires 12L



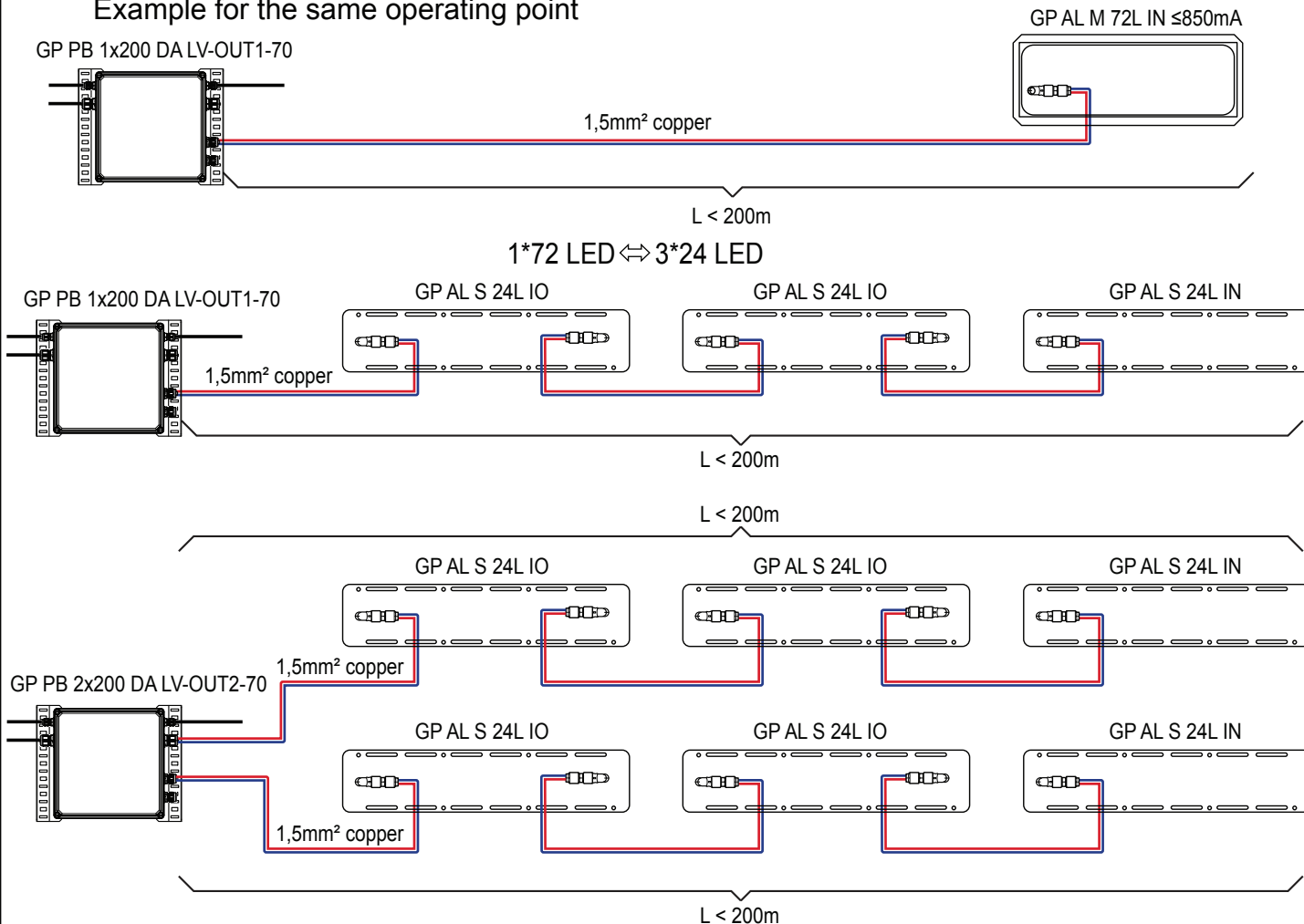


Maximum cable voltage loss: 2% of total led output voltage (typ. @25°C)

Cable 1,5mm² copper (0,023ohm.mm²/m)

Type of luminaire	S 12L MS 12L	S 12/24L MS 12/24L	S 12/24/36L MS 12/24/ 6L M 72L 1050mA	S 12/24/48L MS 12/24/48L	M 108L	S 12L MS 12L	S 12/24/36L MS 12/24/36L M 72L ≤850mA L 144L XL 216L ≥700mA	S 12L MS 12L	S 12/24/48L MS 12/24/48L	S 12/36L MS 12/36L XL 216L ≤500mA	S 12L MS 12L
Current (mA)	Total LEDs per driver										
	12L	24L	36L	48L	54L	60L	72L	84L	96L	108L	120L
	L= Maximum cable distance (meter)										
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



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

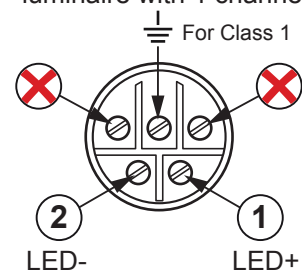
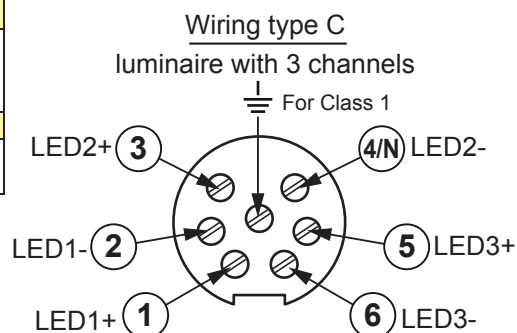
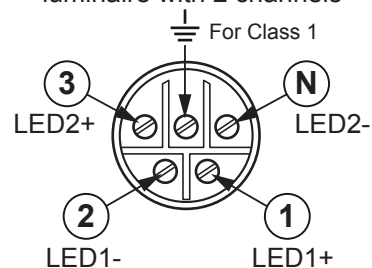
Automatic circuit breaker type	C10	C13	C16	C20	B10	B13	B16	B20	Inrush current	
Installation Ø	1.5mm ²	1.5mm ²	2.5mm ²	4mm ²	1.5mm ²	1.5mm ²	2.5mm ²	4mm ²	I _{max}	time
LCO 200/200-1050/355 o4a NF C EXC3	6	10	13	16	4	6	8	10	80A	225ms

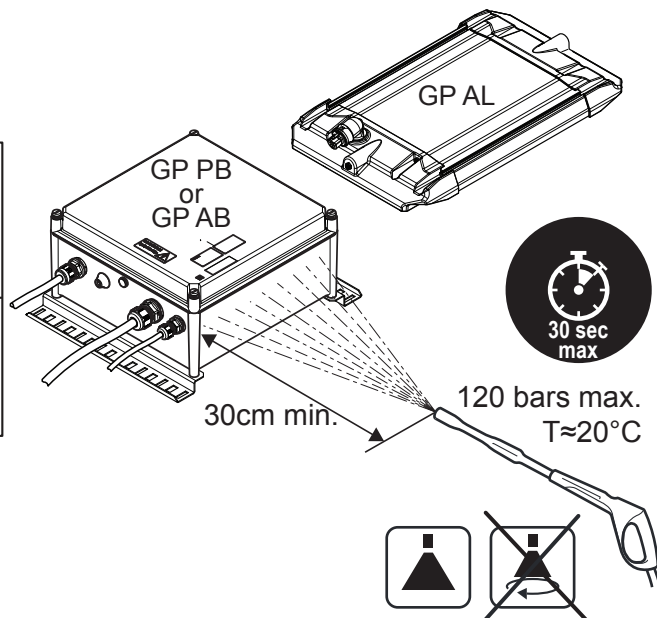
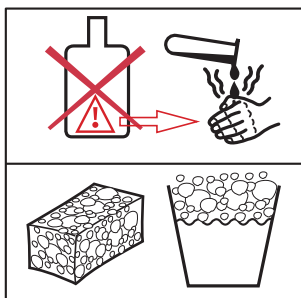
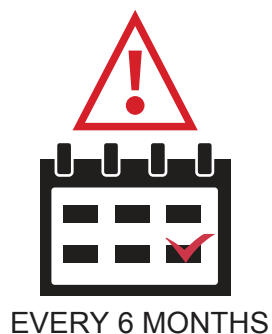
Calculation uses typical values from ABB series S200 as a reference.

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 ...	GP AL MS 12L ...	500	40	400	A
		700			
		850			
		1000			
		1050			
GP AL S 24L ...	GP AL MS 24L ...	500	75	400	A
		700			
		850			
		1000			
		1050			
GP AL S 36L ...	GP AL MS 36L ...	500	110	400	A
		700			
		850			
		1000			
		1050			
GP AL S 48L ...	GP AL MS 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 channelWiring type B
luminaire with 2 channels

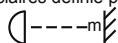


FRANCAIS

- 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.

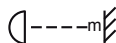


SVERIGE

- Ersätta alla spräckta skyddsplåtar.
- Klass II armaturer måste installeras så att nakna 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.

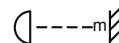


ITALIANO

- 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.

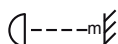


ENGLISH

- 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.

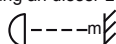


DEUTSCH

- 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.

