

# PHILIPS

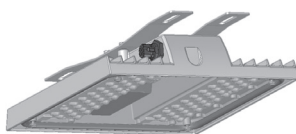
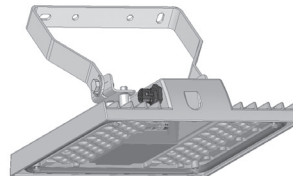
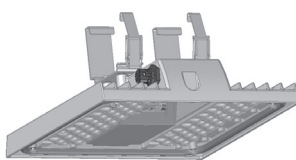
## Tubepoint

BGP221/231

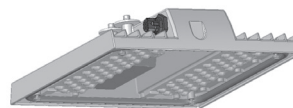


BGP221/231 MBQ-S/M/L

BGP221/231 MBA



BGP221/231 MB



BGP221/231 BA

220V  
240V

50Hz  
60Hz



IEC  
EN60598

LEDs

IP66

IK08

LEDs



Ta  
35 °C

Ta  
Min.  
-30°C



Photobiological Risk  
Inrush Current (230VAC) (Apk/μs)  
Luminaire Surge Protection  
Luminaire Surge Protection with SPD \* Optional

RG1  
42/280  
6KV  
10KV



LEDs

W  
+/- 10%

Drivers

lumen



m²

kg

CORE (BGP221)

840	LED30	36	24	1	3000	✓	✓	0,024	6kg
840	LED50	36	41	1	5000	✓	✓	0,024	6kg
840	LED90	72	73	1	9000	✓	✓	0,024	6kg
840	LED100	72	81	1	10000	✓	✓	0,024	6kg

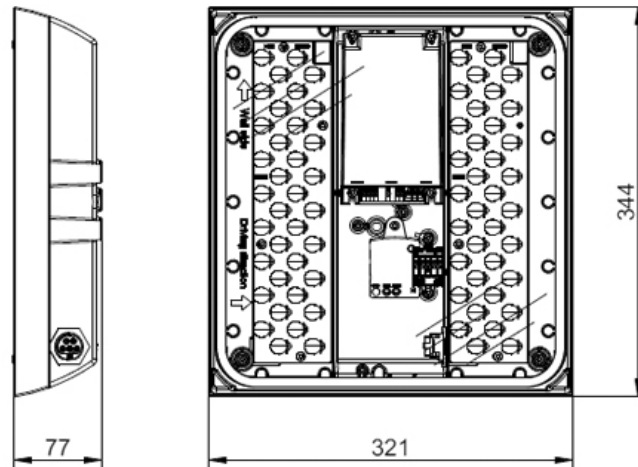
PERFORMER (BGP231)

840	LED30	36	24	1	3000	✓	✓	0,024	6kg
840	LED50	36	41	1	5000	✓	✓	0,024	6kg
840	LED90	72	73	1	9000	✓	✓	0,024	6kg

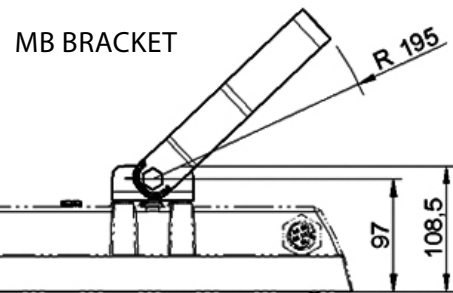
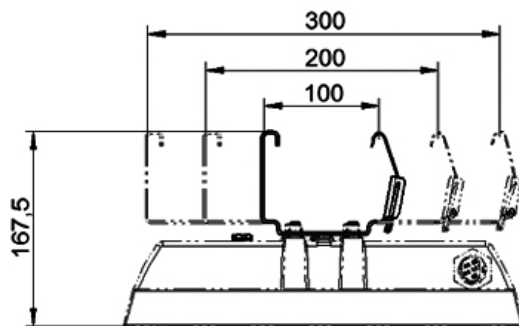
### Temperature protection:

Driver has a temperature protection.

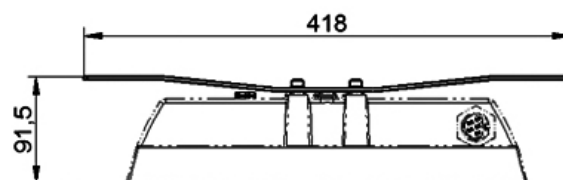
If the driver is too warm it switches off. Power will return automatically when the temperature has dropped again.



MBQ-S/M/L



MB



BA



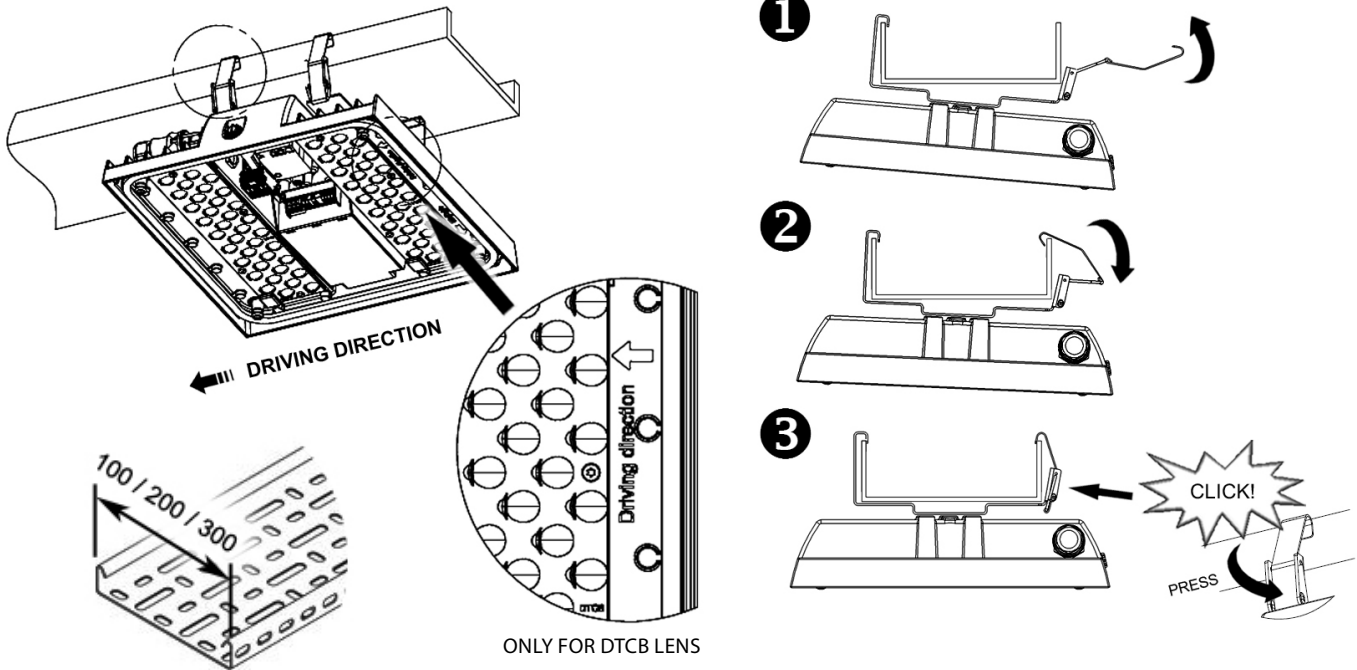
This luminaire must be installed only by qualified personnel



Disconnect before servicing

## MOUNTING DEVICES

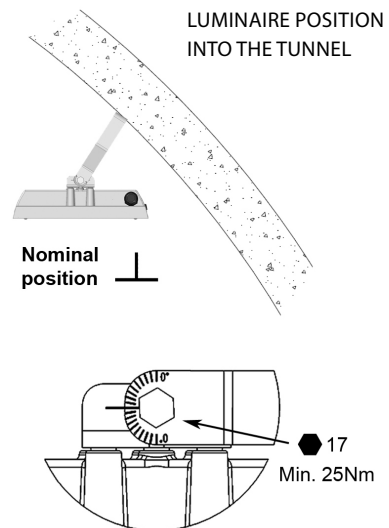
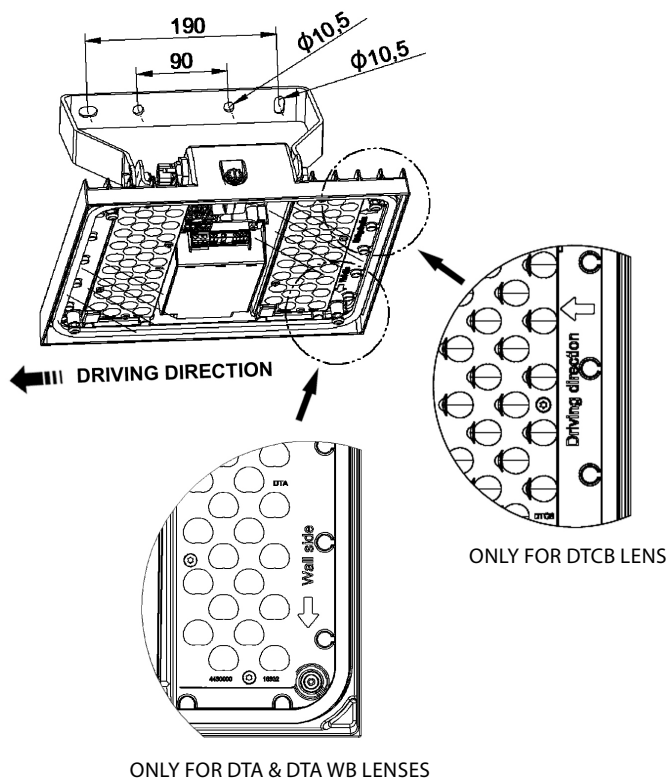
### MBQ-S/M/L



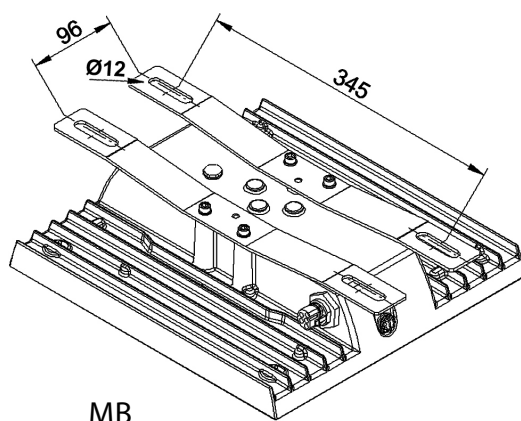
The rails should be in stainless steel (AISI-304) or better.  
Are specified in IEC EN 61537

1

### MBA

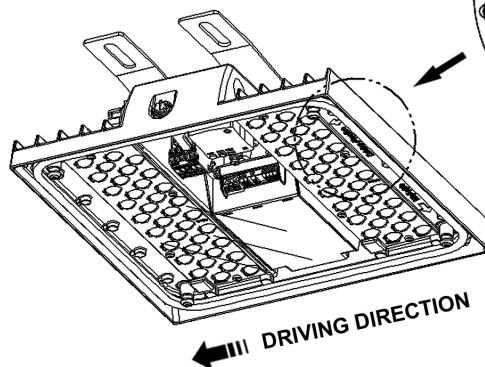
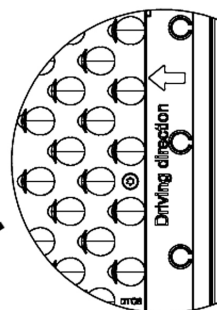


2

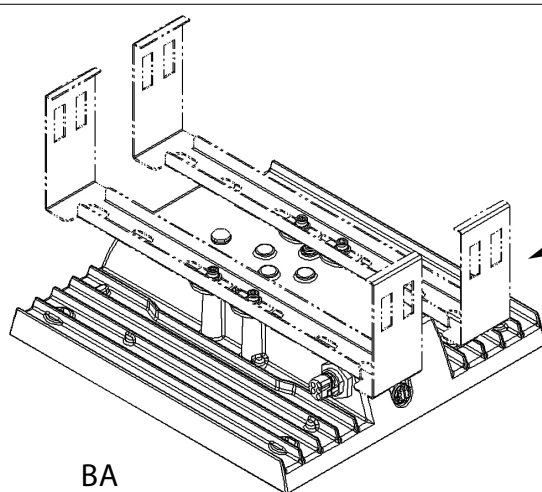


MB

ONLY FOR DTCB LENS



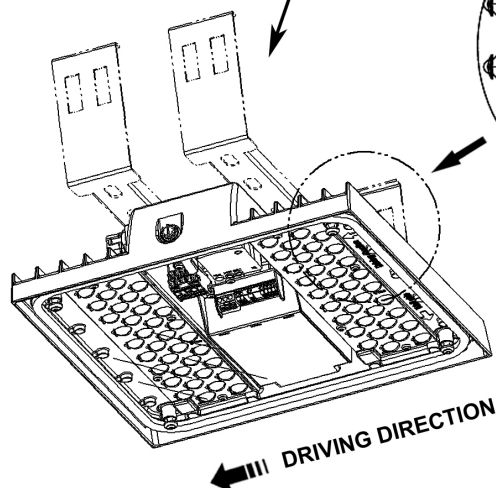
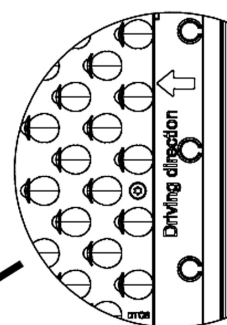
3



BA

OPTIONAL BRACKET  
(not supplied by PHILIPS)

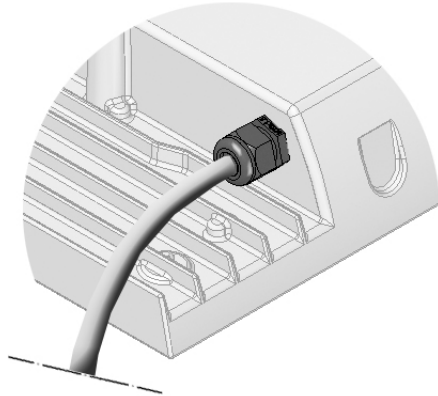
ONLY FOR DTCB LENS



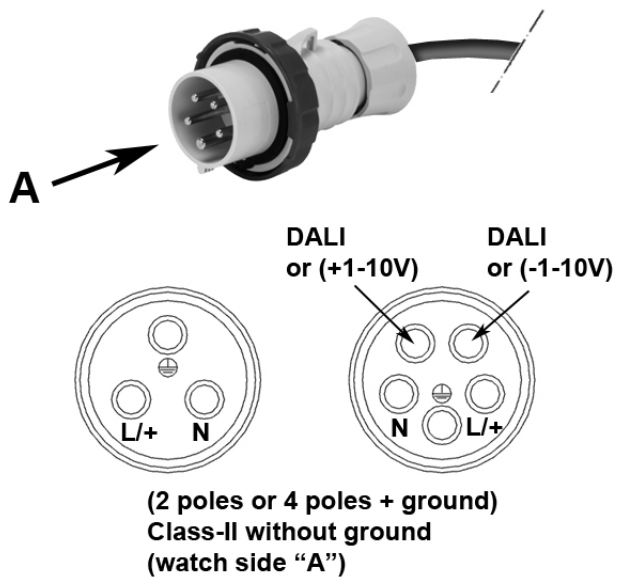
4

## TYPES OF MAIN CONNECTORS

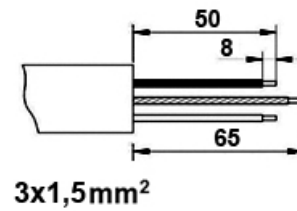
CFW (included supply cable)



GEWISS connector (C1K5CE)

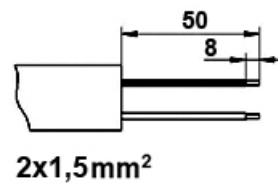


### Power connection Class-I



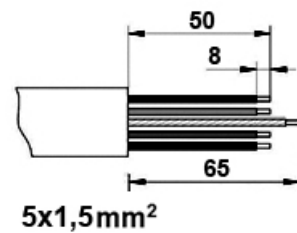
L	LINE (Brown)
	GROUND (Yellow & Green)
N	NEUTRAL (Blue)
1	-
2	-

### Power connection Class-II



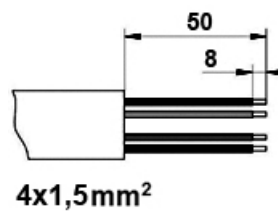
L	LINE (Brown)
N	NEUTRAL (Blue)
1	-
2	-

### Power & Control Line connection Class-I

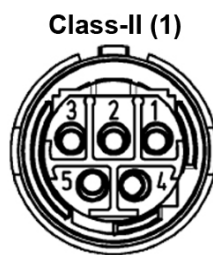
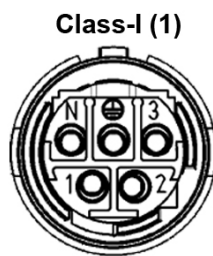
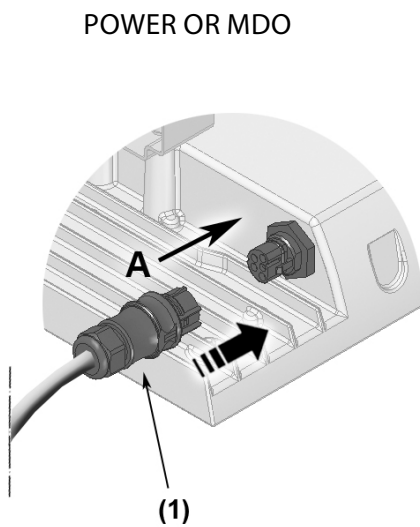


L	LINE (Brown)
	GROUND (Yellow & Green)
N	NEUTRAL (Blue)
1	(+1-10v) or DALI
2	(-1-10v) or DALI

### Power & Control Line connection Class-II

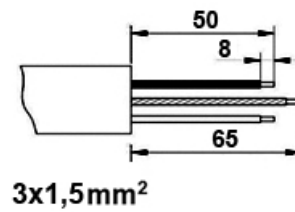


L	LINE (Brown)
N	NEUTRAL (Blue)
1	(+1-10v) or DALI
2	(-1-10v) or DALI



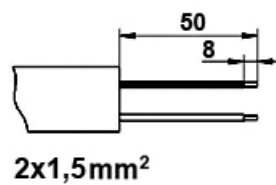
(watch side "A")

#### Power connection Class-I



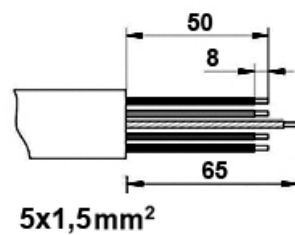
3	LINE (Brown)
	GROUND (Yellow & Green)
N	NEUTRAL (Blue)
1	-
2	-

#### Power connection Class-II



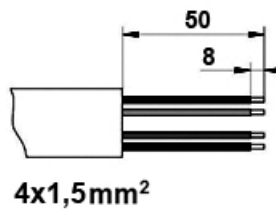
1	LINE (Brown)
2	-
3	NEUTRAL (Blue)
4	-
5	-

#### Power & Control Line connection Class-I



3	LINE (Brown)
	GROUND (Yellow & Green)
N	NEUTRAL (Blue)
1	(+1-10v) or DALI
2	(-1-10v) or DALI

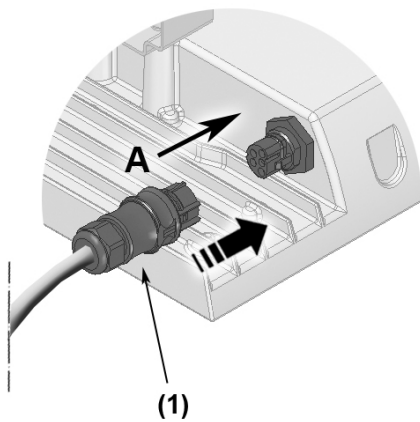
#### Power & Control Line connection Class-II



1	LINE (Brown)
2	-
3	NEUTRAL (Blue)
4	(-1-10v) or DALI
5	(+1-10v) or DALI

## MDD CONNECTION

(IN POWER)



Class-I (1)

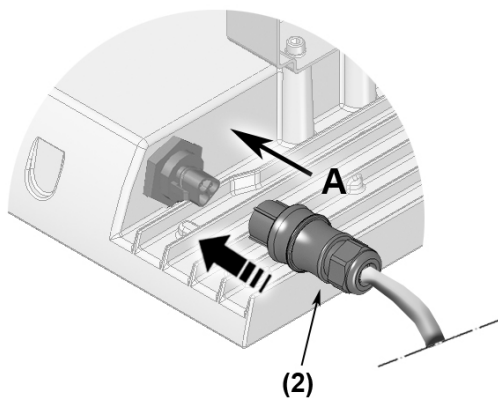


Class-II (1)



(watch side "A")

(IN CONTROL)

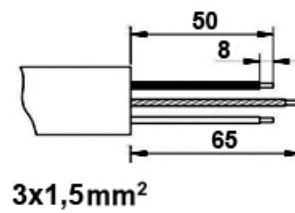


Control (2)



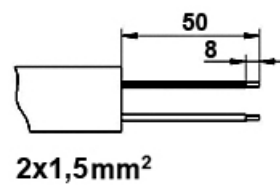
(watch side "A")

## Power connection Class-I



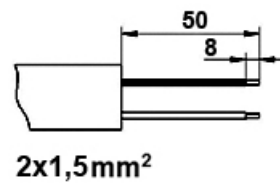
3	LINE (Brown)
	GROUND (Yellow & Green)
N	NEUTRAL (Blue)
1	-
2	-

## Power connection Class-II



1	LINE (Brown)
2	-
3	NEUTRAL (Blue)
4	-
5	-

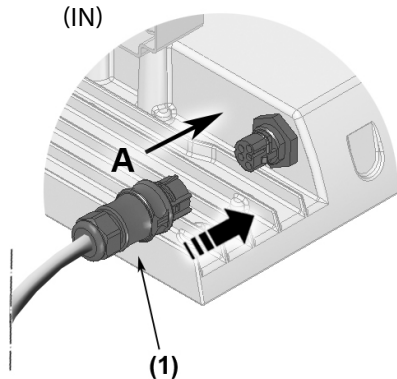
## Control Line



1	(+1-10v) or DALI
2	(-1-10v) or DALI

## TC OR TC5 CONNECTION

(IN)



### Class-I (1)

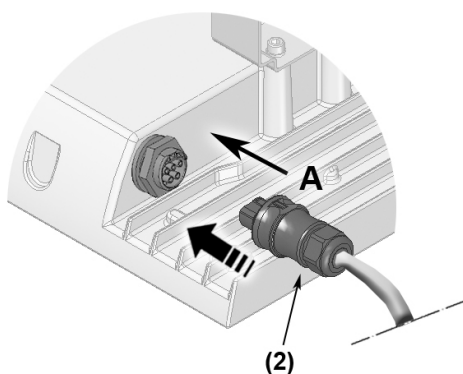


### Class-II (1)



(watch side "A")

(OUT)



### Class-I (2)

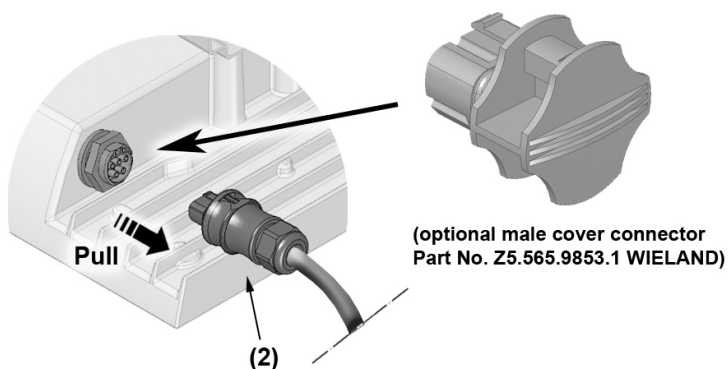


### Class-II (2)

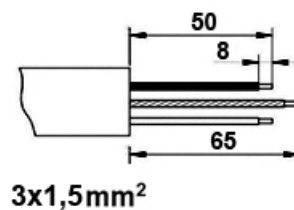


(watch side "A")

(Unlocking and separating)



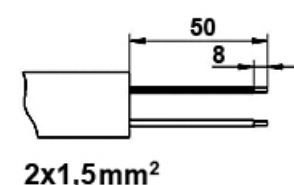
## Power connection Class-I



3x1,5mm<sup>2</sup>

3	LINE (Brown)
	GROUND (Yellow & Green)
N	NEUTRAL (Blue)
1	-
2	-

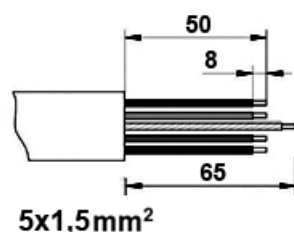
## Power connection Class-II



2x1,5mm<sup>2</sup>

1	LINE (Brown)
2	-
3	NEUTRAL (Blue)
4	-
5	-

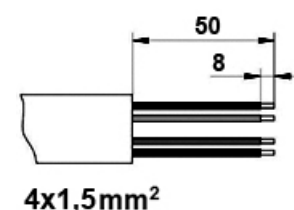
## Power & Control Line connection Class-I



5x1,5mm<sup>2</sup>

3	LINE (Brown)
	GROUND (Yellow & Green)
N	NEUTRAL (Blue)
1	(+1-10v) or DALI
2	(-1-10v) or DALI

## Power & Control Line connection Class-II

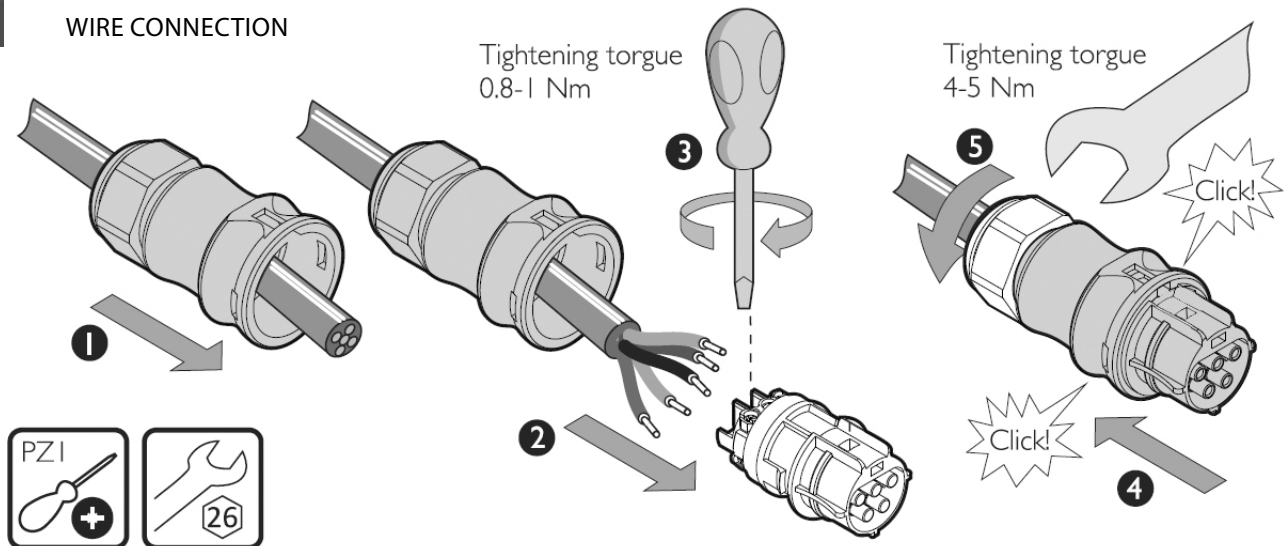


4x1,5mm<sup>2</sup>

1	LINE (Brown)
2	-
3	NEUTRAL (Blue)
4	(-1-10v) or DALI
5	(+1-10v) or DALI



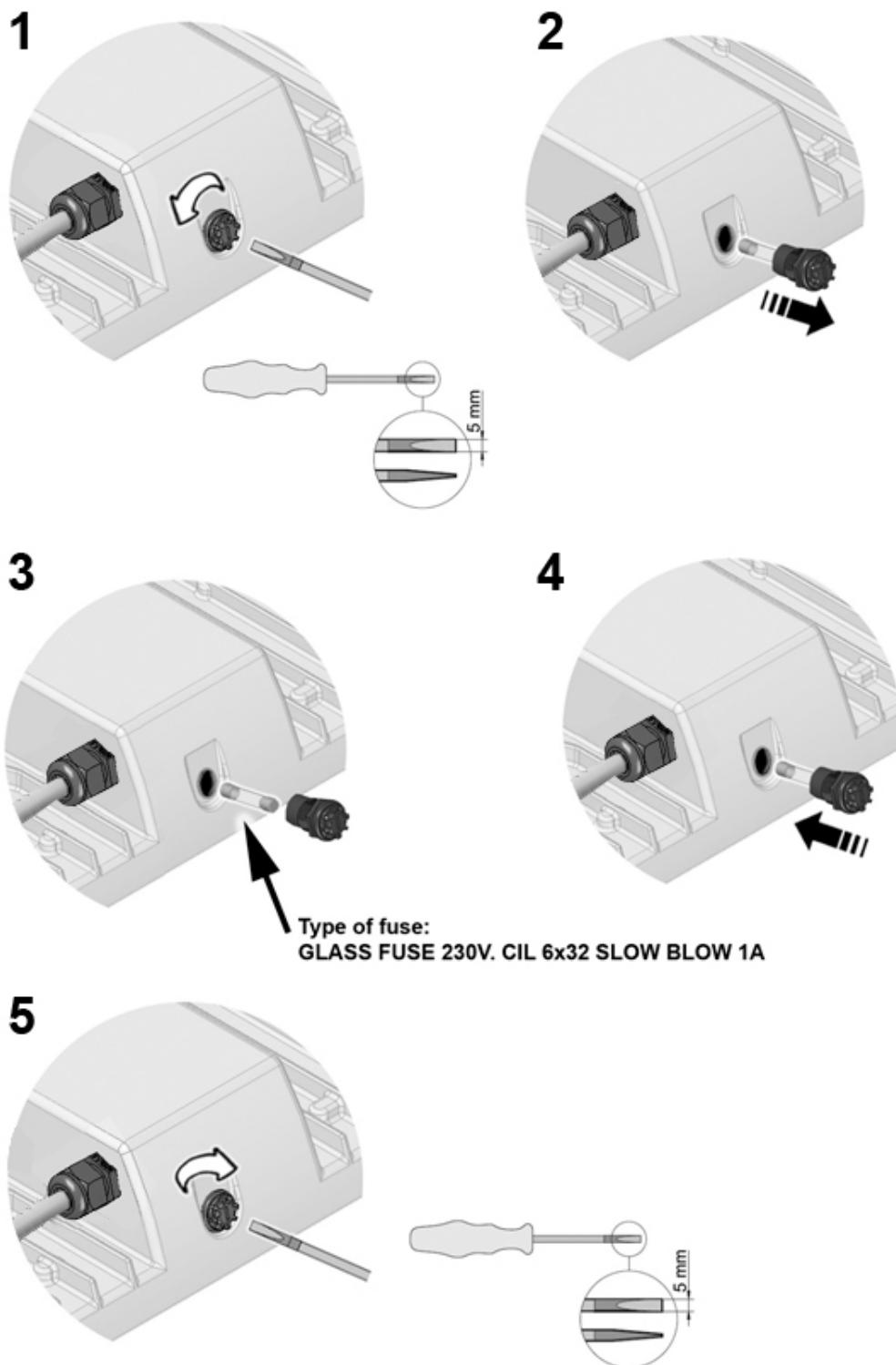
## WIRE CONNECTION



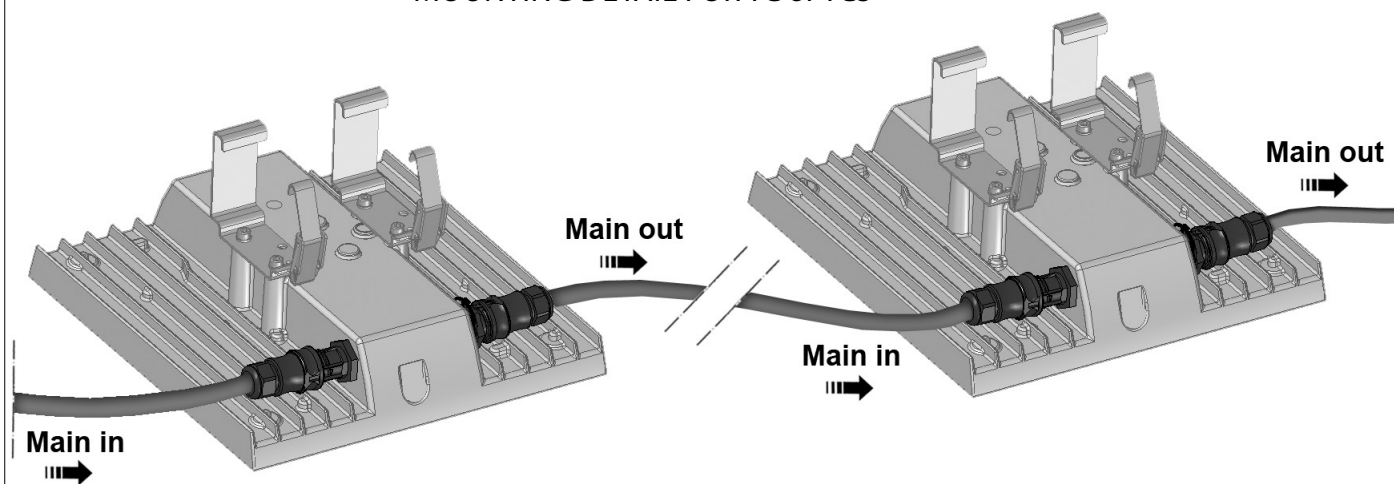
**The connectors are not for current interrupting.  
Never connect or disconnect under load.**



## FUSE REPLACEMENT

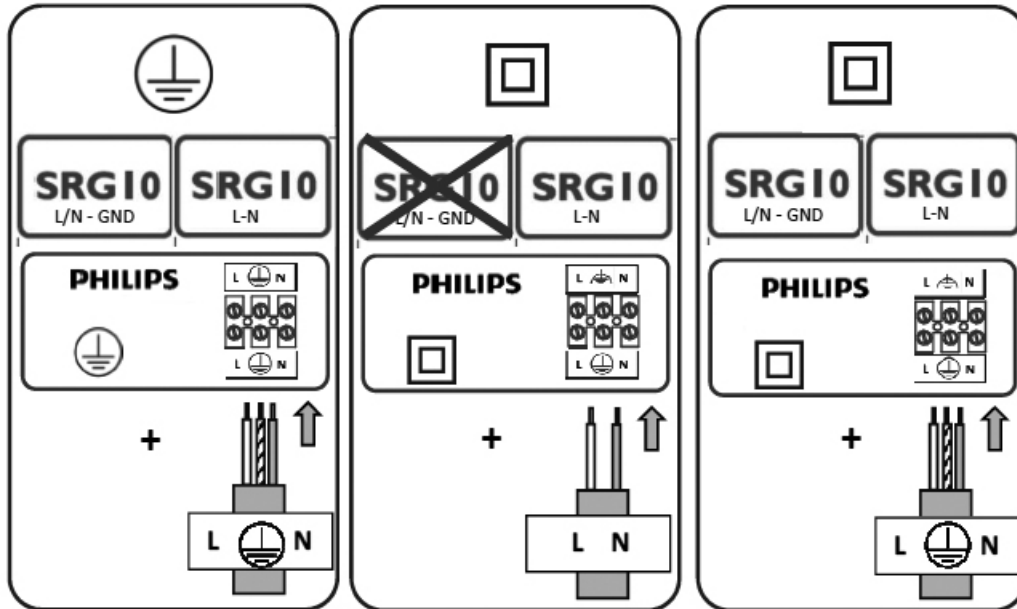
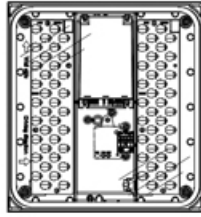


## MOUNTING DETAIL FOR TC or TC5



The maximum number of luminaires to connect depend on the driver power and electrical protect type in version TC/TC5

Driver Power (W)	Maximum number of luminaires to install	Type of electrical protection installation
40	20	MCB 16A B
40	34	MCB 16A C
110	11	MCB 16A B
110	18	MCB 16A C











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