

Philips GearUnits ECB330/ECP330

Mounting instructions

Instructions de montage

Montageanleitung

Montage instruktic

Instruzioni di montaggio

Instrucciones de montaje

Instruções de montagem

Monteringsinstruktioner

Monteringsvejledning

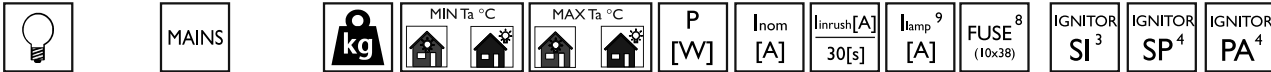
Kokoonpano- ja kiinnitysohjeet

Montaj yönergəsi

Szerelési utasítások

Instrukcja montażu

Návod k montáži



ECB330	2xHPI-TP 400W	230/240V 50Hz	12	-30	n/a <sup>1</sup>	45	n/a <sup>1</sup>	986 <sup>2</sup>	4,3 <sup>2</sup>	7,8 <sup>2</sup>	3,8	2 x gG8A	-	-	x <sup>6</sup>
	2xSON-T 400W	230/240V 50Hz	12	-30	n/a <sup>1</sup>	45	n/a <sup>1</sup>	878 <sup>2</sup>	4,4 <sup>2</sup>	7,2 <sup>2</sup>	4,5	2 x gG8A	x	x <sup>5</sup>	-
	2xSON-T 600W	230/240V 50Hz	13	-30	n/a <sup>1</sup>	45	n/a <sup>1</sup>	1284 <sup>2</sup>	6,2 <sup>2</sup>	9,8 <sup>2</sup>	5,8	2 x gG16A	x	-	-
	2xSON-T 600W	230V 50Hz	13	-30	n/a <sup>1</sup>	45	n/a <sup>1</sup>	1284 <sup>2</sup>	6,2 <sup>2</sup>	9,8 <sup>2</sup>	5,8	2 x gG16A	-	x <sup>5</sup>	-
	2xSON-T 600W	240V 50Hz	13	-30	n/a <sup>1</sup>	45	n/a <sup>1</sup>	1284 <sup>2</sup>	6,2 <sup>2</sup>	9,8 <sup>2</sup>	5,8	2 x gG16A	-	x <sup>5</sup>	-
	HPI-T 1000W	230/240V 50Hz	15	-30	n/a <sup>1</sup>	45	n/a <sup>1</sup>	1051	5,3	8,7	8,25	gG16A	-	-	x <sup>6</sup>
	HPI-T 2000W	380/400/415V 50Hz	19,5	-30	n/a <sup>1</sup>	45	n/a <sup>1</sup>	2059	6,0	10,9	9,1	gG16A	-	-	x <sup>6</sup>
	MHN-FC 1000W	230/240V 50Hz	16	-30	n/a <sup>1</sup>	45	n/a <sup>1</sup>	1110	6,0	8,0	8,9	gG16A	x	-	-
	MHN-FC 2000W	360/380/400/415V 50Hz	20,5	-30	n/a <sup>1</sup>	45	n/a <sup>1</sup>	2158	5,3	8,2	9,6	gG16A	x	-	-
	MHN-LA 1000W	230/240V 50Hz	16	-30	n/a <sup>1</sup>	45	n/a <sup>1</sup>	1110	6,0	8,0	9,3	gG16A	x <sup>7</sup>	-	-
	MHN-LA 2000W	360/380/400/415V 50Hz	20,5	-30	n/a <sup>1</sup>	45	n/a <sup>1</sup>	2166	5,3	8,2	9,6	gG16A	x	-	-
	MHN-SE 2000W	380/400/415/430V 50Hz	22	-30	n/a <sup>1</sup>	45	n/a <sup>1</sup>	2120	5,9	8,0	11,6	gG16A	x <sup>7</sup>	-	-
	MHN-SA 2000W	380/400/415/430V 50Hz	22	-30	n/a <sup>1</sup>	45	n/a <sup>1</sup>	2190	5,8	8,0	11,2	gG16A	x <sup>7</sup>	-	-
ECP330	SON-T 1000W	230/240V 50Hz	16	-30	n/a <sup>1</sup>	45	n/a <sup>1</sup>	1075	5,4	7,3	10,3	gG16A	x	x <sup>5</sup>	-
	SON-T 600W	230/240V 50Hz	7,5	-30	n/a <sup>1</sup>	45	n/a <sup>1</sup>	642	3,1	4,9	5,8	gG8A	x	-	-
	SON-T 600W	230V 50Hz	7,5	-30	n/a <sup>1</sup>	45	n/a <sup>1</sup>	642	3,1	4,9	5,8	gG8A	-	x <sup>5</sup>	-
	SON-T 600W	240V 50Hz	7,5	-30	n/a <sup>1</sup>	45	n/a <sup>1</sup>	642	3,1	4,9	5,8	gG8A	-	x <sup>5</sup>	-
	2xHPI-TP 400W	230/240V 50Hz	18	-30	-30	45	55	986 <sup>2</sup>	4,3 <sup>2</sup>	7,8 <sup>2</sup>	3,8	2 x gG8A	-	-	x <sup>6</sup>
	2xSON-T 400W	230/240V 50Hz	18	-30	-30	45	55	878 <sup>2</sup>	4,4 <sup>2</sup>	7,2 <sup>2</sup>	4,5	2 x gG8A	x	x <sup>5</sup>	-
	2xSON-T 600W	230/240V 50Hz	19	-30	-30	45	55	1284 <sup>2</sup>	6,2 <sup>2</sup>	9,8 <sup>2</sup>	5,8	2 x gG16A	x	-	-
	2xSON-T 600W	230V 50Hz	19	-30	-30	45	55	1284 <sup>2</sup>	6,2 <sup>2</sup>	9,8 <sup>2</sup>	5,8	2 x gG16A	-	x <sup>5</sup>	-
	2xSON-T 600W	240V 50Hz	19	-30	-30	45	55	1284 <sup>2</sup>	6,2 <sup>2</sup>	9,8 <sup>2</sup>	5,8	2 x gG16A	-	x <sup>5</sup>	-
	HPI-T 1000W	230/240V 50Hz	19	-30	-30	45	55	1051	5,3	8,7	8,25	gG16A	-	-	x <sup>6</sup>
	HPI-T 2000W	380/400/415V 50Hz	24	-30	-30	45	55	2059	6,0	10,9	9,1	gG16A	-	-	x <sup>6</sup>
	MHN-FC 1000W	230/240V 50Hz	20,5	-30	-30	45	55	1110	6,0	8,0	8,9	gG16A	x	-	-
	MHN-FC 2000W	360/380/400/415V 50Hz	25	-30	-30	45	55	2158	5,3	8,2	9,6	gG16A	x	-	-
	MHN-LA 1000W	230/240V 50Hz	20,5	-30	-30	45	55	1110	6,0	8,0	9,3	gG16A	x <sup>7</sup>	-	-
	MHN-LA 1000W	220V 60Hz	20,5	-30	-30	45	55	1110	6,1	8,1	10,3	gG16A	x <sup>7</sup>	-	-
	MHN-LA 2000W	360/380/400/415V 50Hz	25	-30	-30	45	55	2166	5,3	8,2	9,6	gG16A	x	-	-
	MHN-SE 2000W	380/400/415/430V 50Hz	26,5	-30	-30	45	55	2120	5,9	8,0	11,6	gG16A	x <sup>7</sup>	-	-
	MHN-SE 2000W	380/400/415/430V 60Hz	26,5	-30	-30	45	55	2120	5,9	8,0	11,6	gG16A	x <sup>7</sup>	-	-
	MHN-SA 2000W	380/400/415/430V 50Hz	26,5	-30	-30	45	55	2190	5,8	8,0	11,2	gG16A	x <sup>7</sup>	-	-
	MHN-SA 2000W	380/400/415/430V 60Hz	26,5	-30	-30	45	55	2190	5,8	8,0	11,2	gG16A	x <sup>7</sup>	-	-
	SON-T 1000W	230/240V 50Hz	20,5	-30	-30	45	55	1075	5,4	7,3	10,3	gG16A	x	x <sup>5</sup>	-
	SON-T 600W	230/240V 50Hz	12	-30	-30	45	55	642	3,1	4,9	5,8	gG8A	x	-	-
	SON-T 600W	230V 50Hz	12	-30	-30	45	55	642	3,1	4,9	5,8	gG8A	-	x <sup>5</sup>	-
	SON-T 600W	240V 50Hz	12	-30	-30	45	55	642	3,1	4,9	5,8	gG8A	-	x <sup>5</sup>	-

1. Not applicable for outdoor use.
2. Value for two systems in total.
3. Ignitor on the luminaire, not on the gear unit. No limitation of distance between lamp-gear unit.
4. Ignitor on the gear unit.
5. Distance between lamp-gear unit limited to 10m for SON-T 400/600W and 26m for SON-T 1000W.
6. Distance between lamp-gear unit limited to 1500m for HPI-TP 400W, 350m for HPI-TP 1000W and 1200m for HPI-TP 2000W.
7. Gear unit suitable also for floodlights equipped with electronic hot restrike ignitor (HRE).
8. Fuse optional, applies as 1-phase protection for 230/240V versions and 2-phase protection for 360-430V versions.
9. Lamp currents are approximate data. For exact data refer to the lamp data sheet.

Disconnect before servicing

Mettre hors tension avant intervention

Offnen nur voor onderhoud

Demonteren voor onderhoud

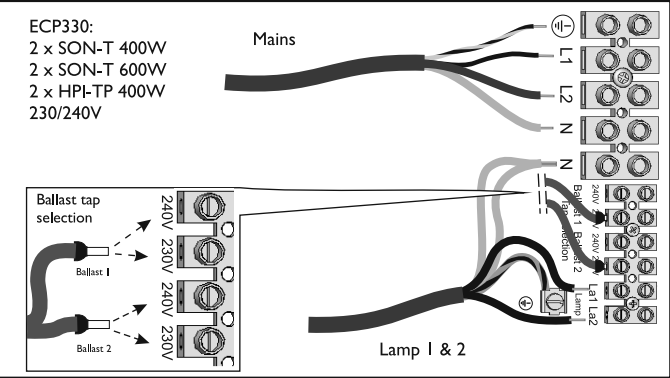
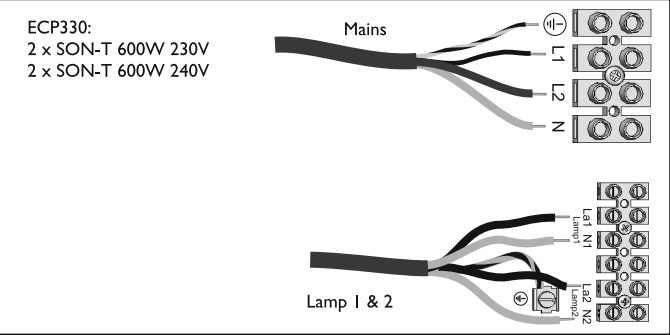
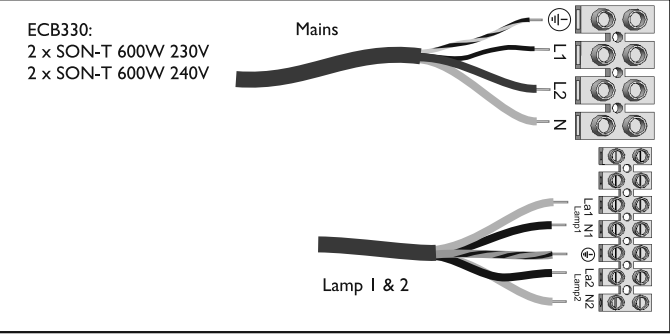
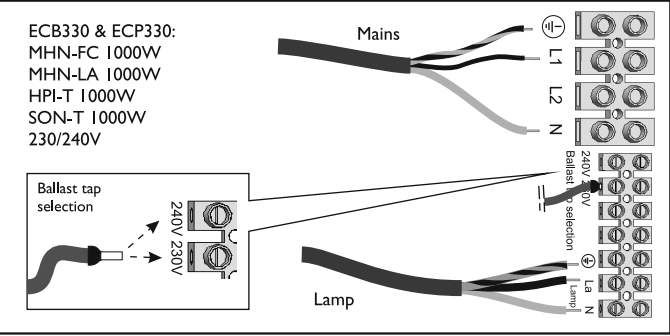
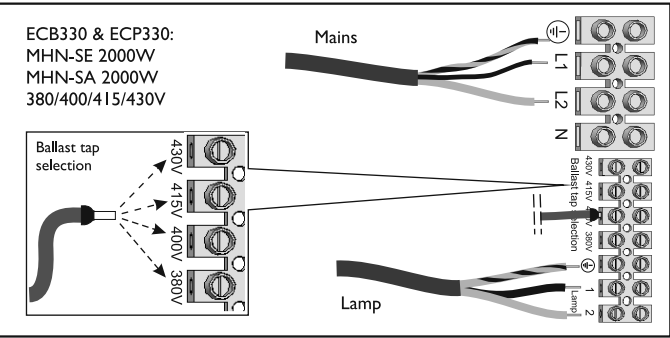
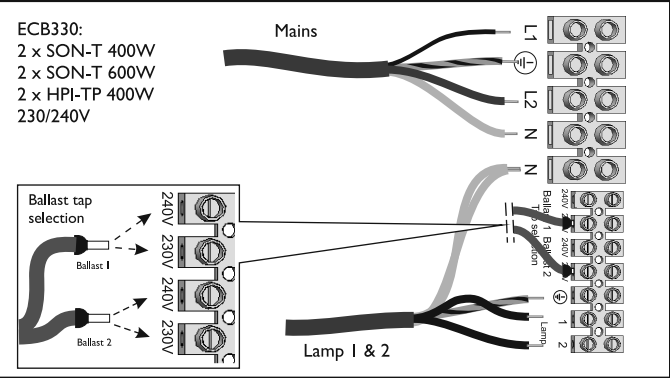
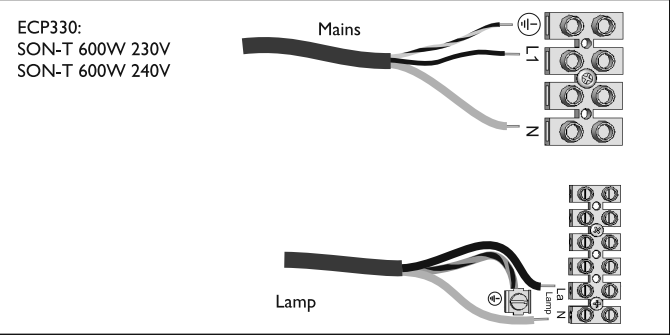
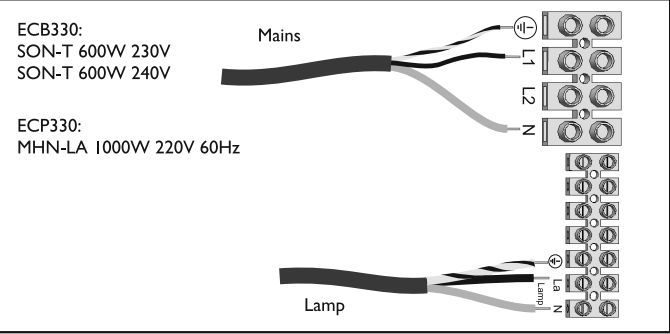
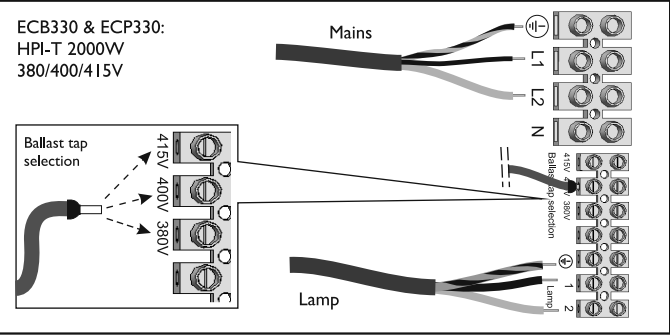
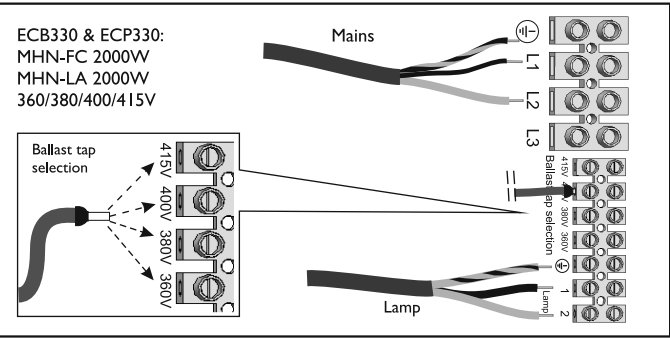
Togliere tensione prima di fare manutenzione

Desconectar antes de manipular

Bryt strömmen före lampbyte

I2NC 4427 100 66682  
Versiondate: 05/03/2013  
Data subject to change without notice  
Printed in Poland  
www.philips.com/lighting

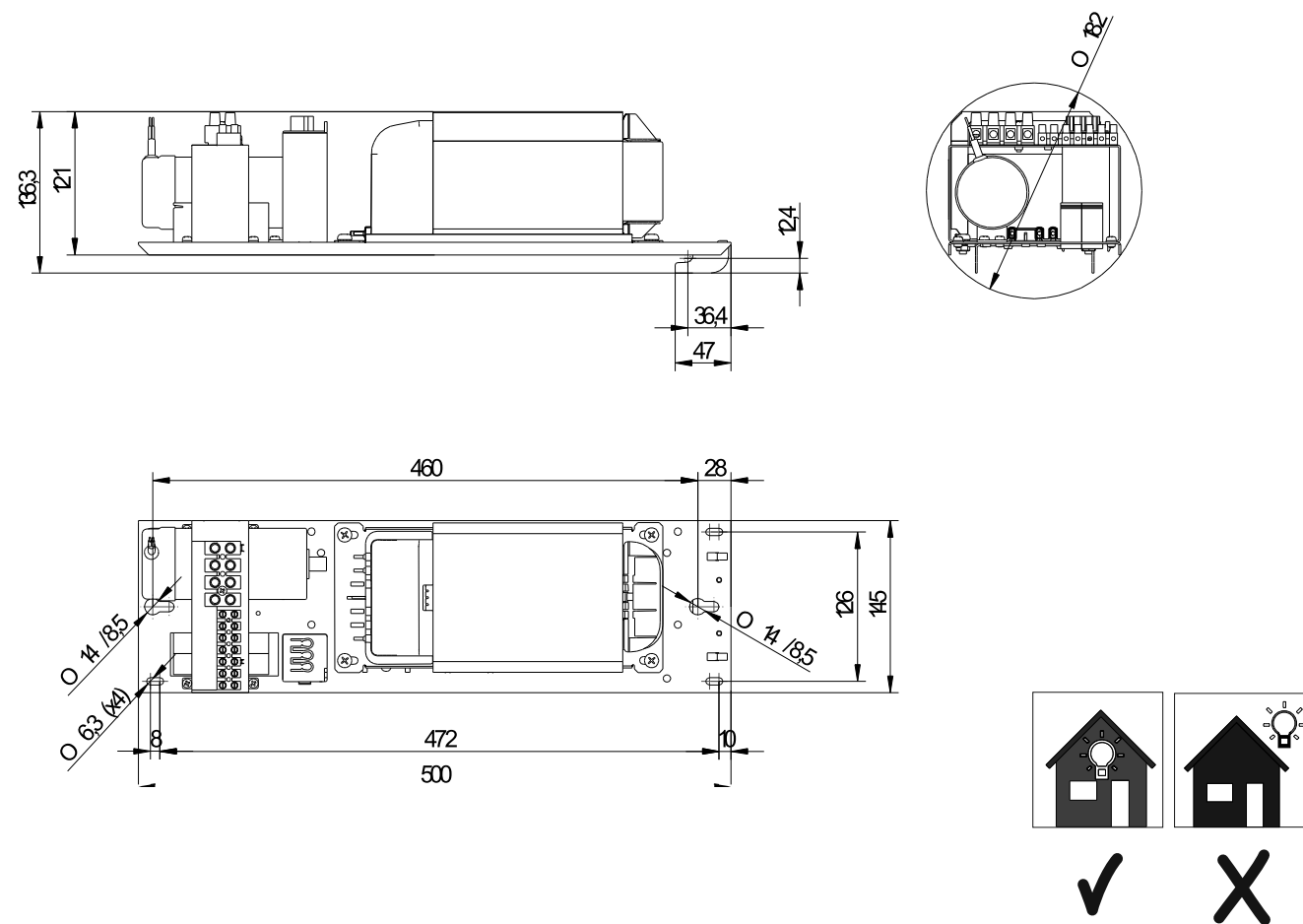
PHILIPS



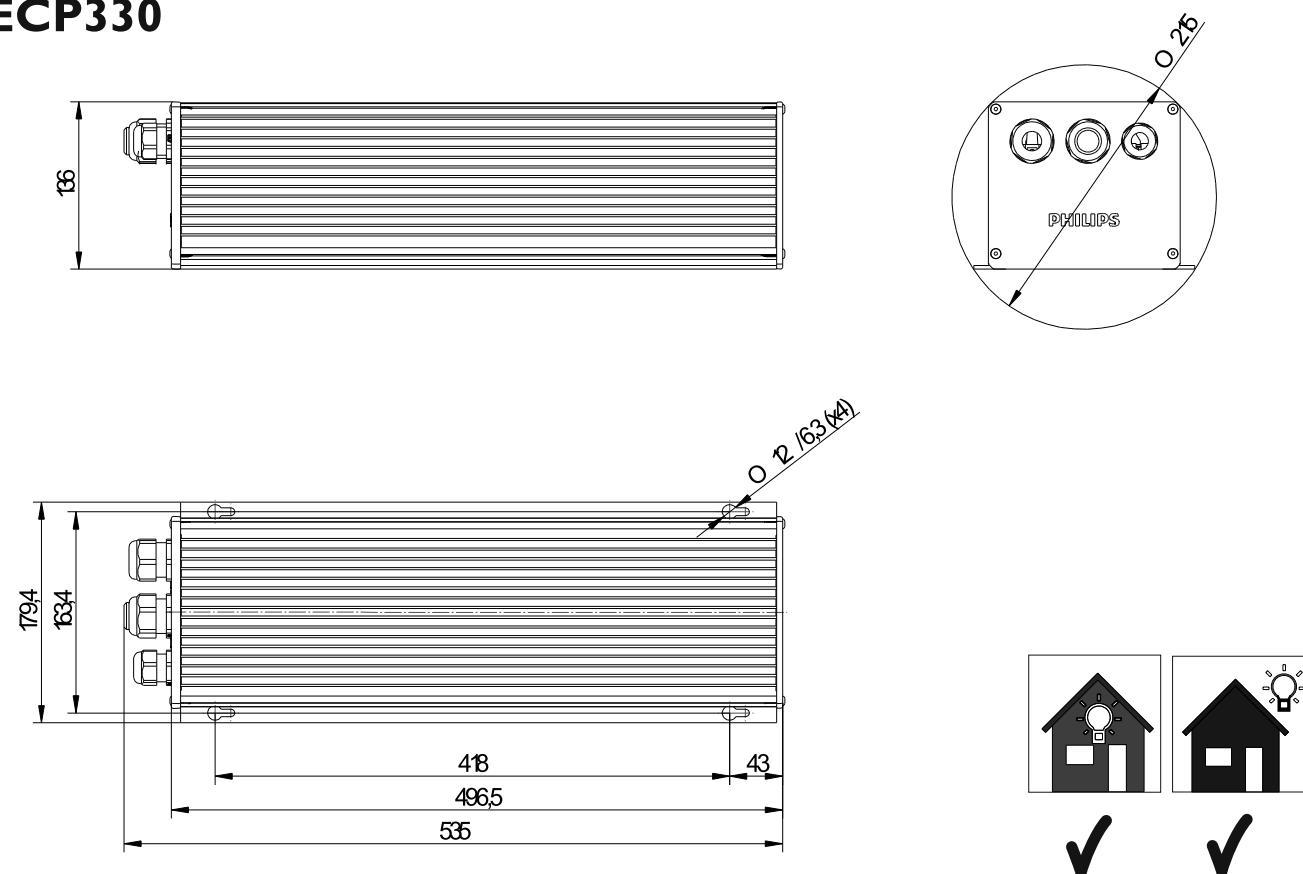
- GB
- Total light output is directly dependant on Gear Unit main voltage. Use the correct ballast tap according the actual main voltage.
- F
- Le flux lumineux de la lampe est directement dépendant de la tension d'alimentation de la platine. Sélectionner la prise ballast en fonction de la tension d'alimentation.
- D
- Der abgegebene Lichtstrom haengt von der anliegenden Netzspannung ab. Klemmenanschluss am Vorschaltgerät entsprechend der anliegenden Netzspannung.
- NL
- De totale licht opbrengst is direct afhankelijk van het voltage van de platine. Gebruik de juiste tap van de ballast afhankelijk van de net spanning.

- I
- Il flusso della lampada è direttamente legato a la tensione d'alimentazione della unità elettrica. Utilizzare il collegamento a la tensione d'alimentazione giusta.
- E
- El flujo de la lámpara depende del voltage de alimentación. Utilize la conexión correcta segun el voltage de alimentación.
- S
- Ljusstöket är beroende på reaktorns driftspänning. Anslut reaktorn för rätt nätspänning där alternat finns.

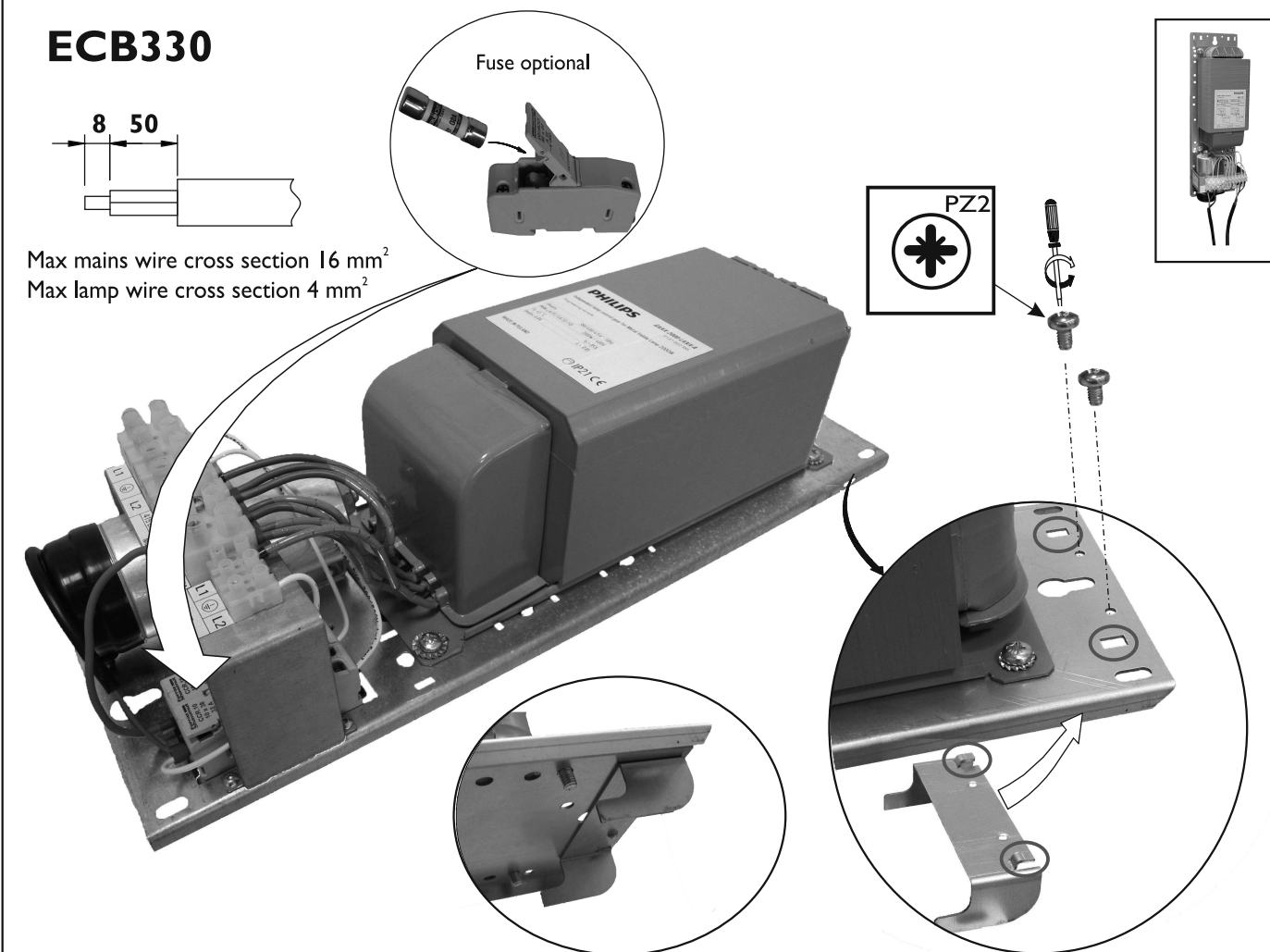
# ECB330



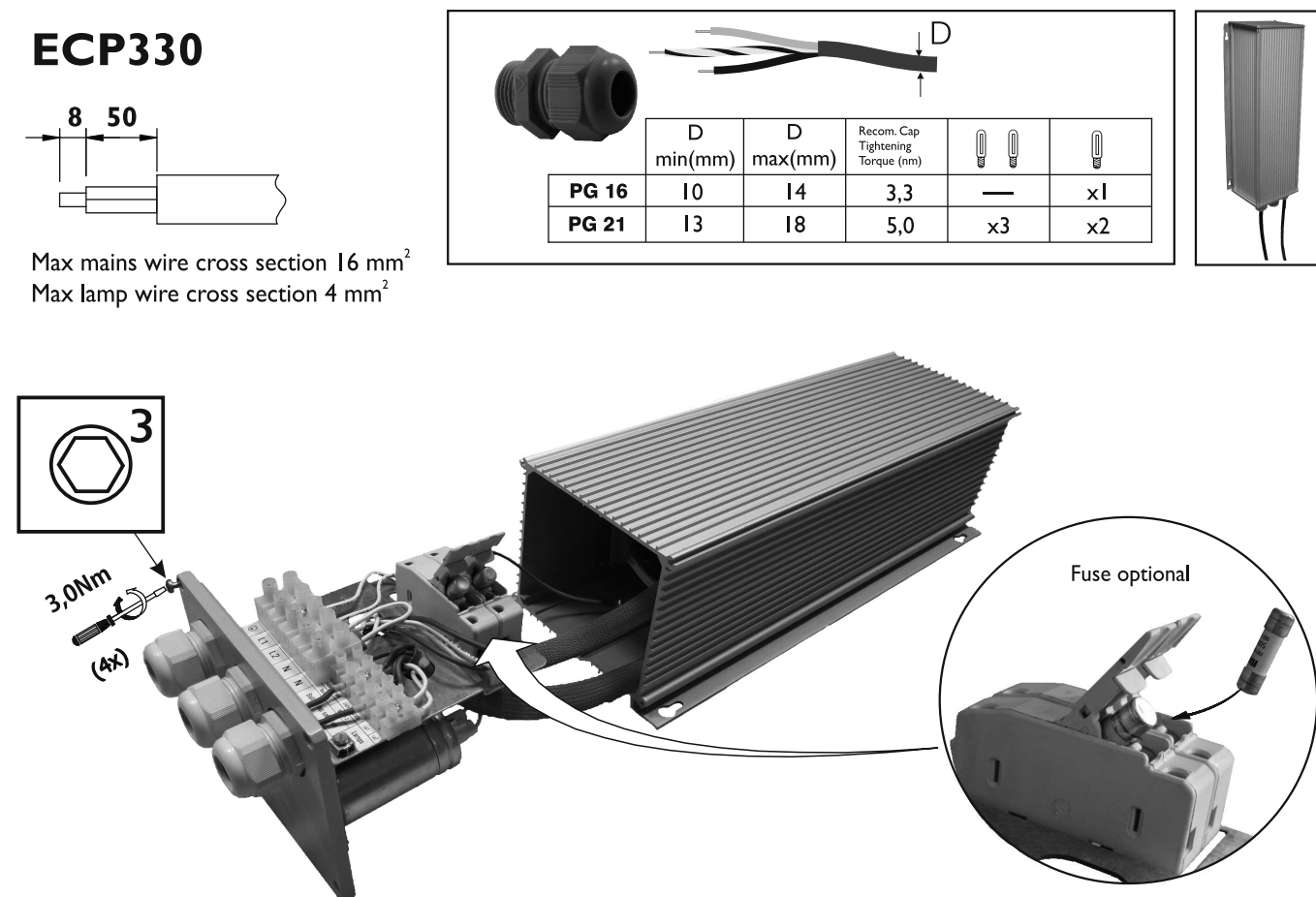
# ECP330



# ECB330



# ECP330



# Philips GearUnits ECM 330

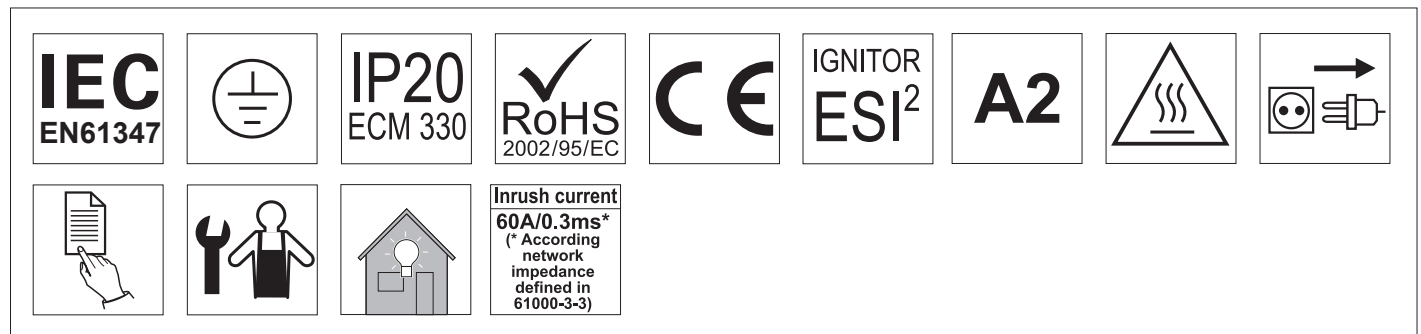
## Mounting instructions

Instructions de montage  
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Instrukcja montazu


Szerelési utasítások  
Návod k montáži  
Монтажная инструкция





ECM 330




MAINS









W

Inom  
(A)

ILamp  
(A)

ULamp  
(V)

Active  
PFC

LxWxH  
(mm)

MHN-SEH 2000W	277-480V	50-60Hz	3.4	-30°C	+55°C	2100	8.2-4.7	11	240	PF>0.97	530x143x127
MHN-LA 1000W	220-480V	50-60Hz	3.4	-30°C	+55°C	1040	5.1-2.3	9.5	145	PF>0.97	530x143x127

1. Lamp currents are approximate data. For exact data refer to the lamp data sheet.

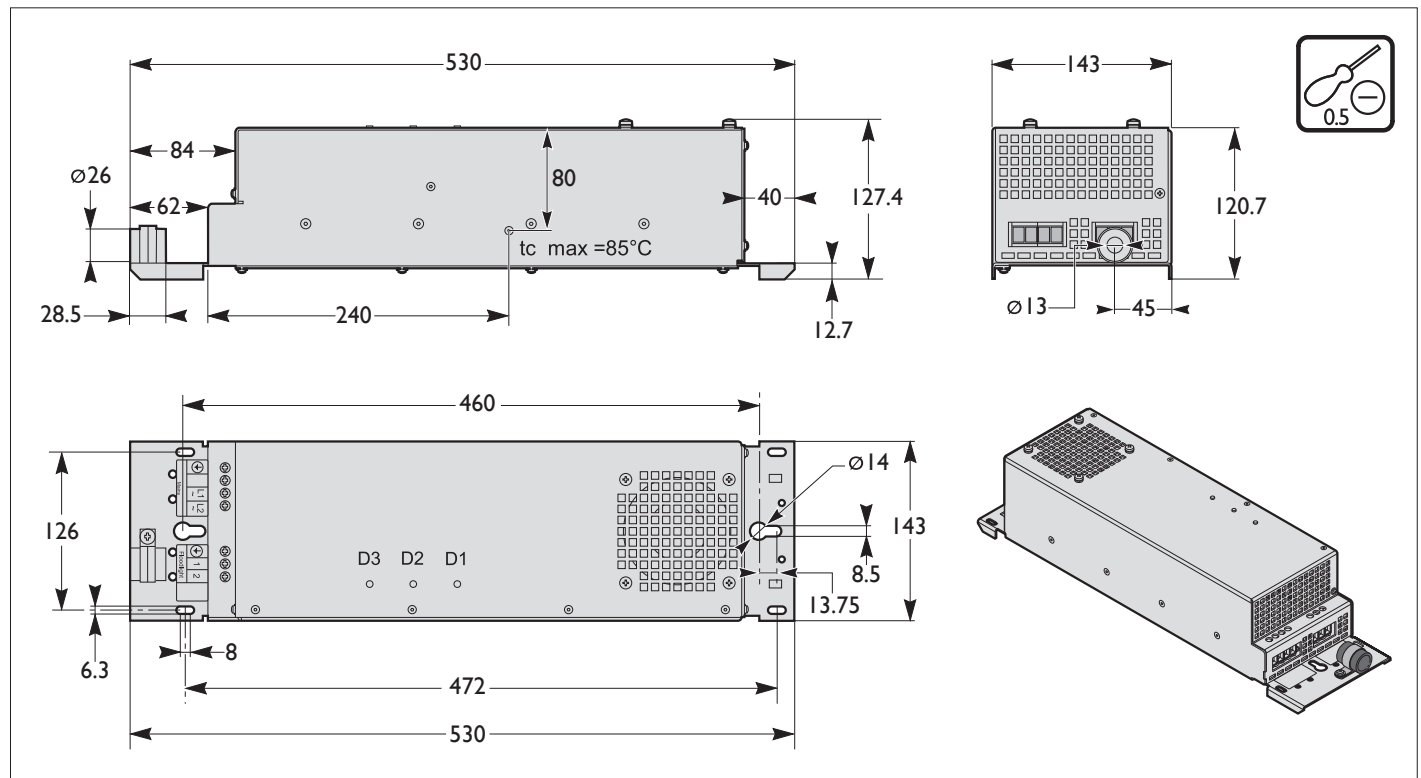
2. Ignitor on the luminaire, not on the gear unit.  
Maximum distance in between e-ballast gear unit and floodlight is 80 m for 1000 W and 120 m for 2000 W versions.  
See below table for recommended cable cross sections.

3. Current ripple: <10 %.

4. Earth leakage current: 480 V, 50-60 Hz <3.5 mA.

5. Output power tolerance: ±5 %.

6. Mains supply voltage fluctuation not more than -8 % and +6 % from the rated voltage of the ballast.



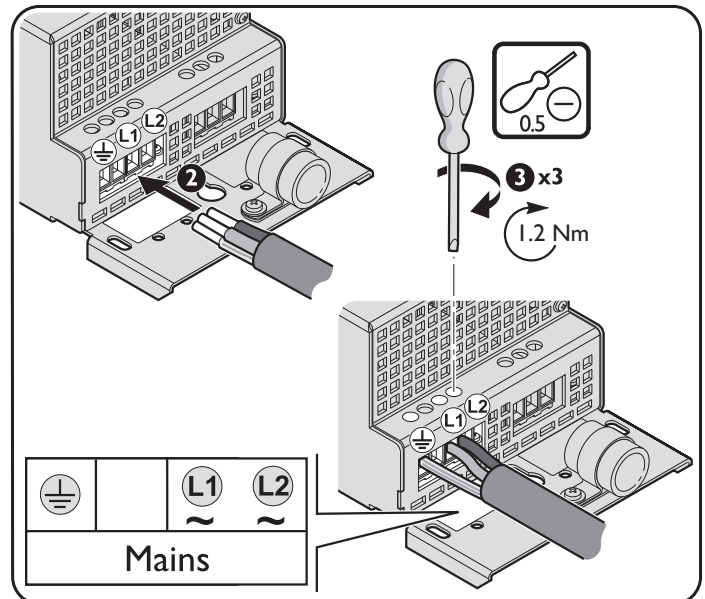
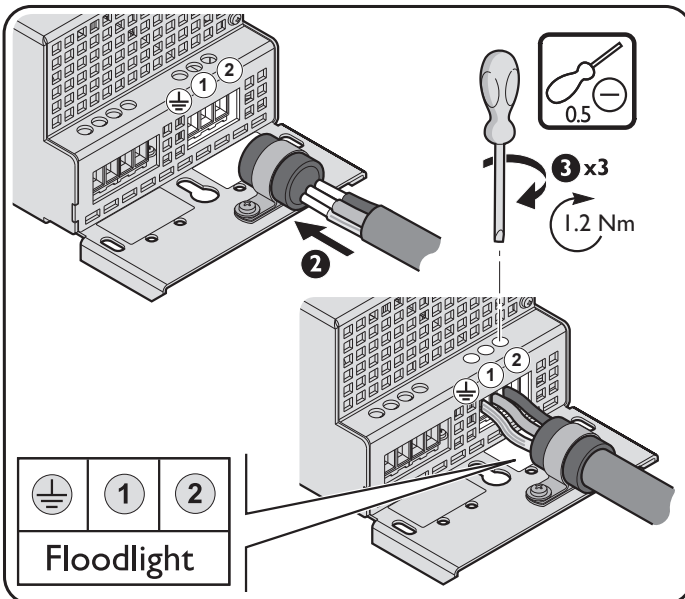
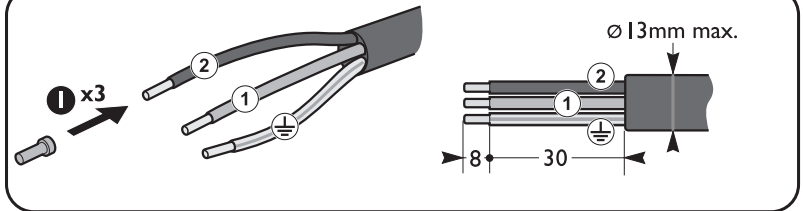
Use Philips lamps for optimum performance  
· Fonctionnement optimal avec lampes Philips  
· Optimale Bestriebsleistung mit Philips-Lampen  
· Toimii parhaiten Philips-lamppujen kanssa  
· Fungerar bäst med lampor från Philips

· Werkt het best met Philips-lampen  
· Resultados óptimos con lámparas Philips  
· Fungerer mest optimalt med Philips-lamper

· Funzionamento ottimale garantito con lampade Philips  
· Funciona melhor com lâmpadas Philips no interior  
· Fungerer bedst med Philips-lamper

## FLOODLIGHT CONNECTION

	1000 W	2000 W
1.5 mm <sup>2</sup>	Less than 20 m	Less than 35 m
2.5 mm <sup>2</sup>	20 to 40 m	35 to 60 m
4 mm <sup>2</sup>	40 to 60 m	60 to 85 m
6 mm <sup>2</sup>	60 to 80 m	85 to 120 m



Warning high leakage current earth connection essential before connecting supply (5.1.7.1 of IEC60950-1)

Main supply must be fused according to local safety regulations. Philips recommends 2-phase fuse protection (fuses are not provided by Philips). The appropriate fuse value can be calculated as:  

$$Plamp \times 1,5/Vin \geq Ifuse \geq Plamp \times 1,2/Vin$$

### LED Status indicators

LED Status	LED D1 (yellow)	LED D2 (green)	LED D3 (red)
Continuously lighting	Fan speed out of specified range, check Fan	Normal operating mode	No successful ignition happens during complete ignition sequence, ballast in standby mode, check lamp and ignitor
Flashing	Mains voltage out of specified range, check mains voltage	Ignition sequence active/waiting for auto restrike	Lamp-end-of life shutdown, replace lamp.
Reset by	Mains off *)	Not applicable	Mains off

\*) After under voltage protection activation, driver start again when  $U_{mains}$  return to nominal value

After over voltage protection activation, driver start again when  $U_{mains}$  will off during 30 sec. and then return to nominal value.

Behavior after over temperature shutdown: Automatic restarting after cool down.



It is essential to isolate the electronic ballast/ignitor or the connected luminaire electrically from mains voltage before maintenance ! Do not attempt to handle or operate an electronic power supply (EPS) and ignitor before completely reading and understanding this notice. Contact Philips if you are uncertain of hazards associated with these devices. The Ballast and the ignitor produces starting voltages of up to 11 kV and electromagnetic radiation interference which are hazardous to personnel and sensitive instrumentation.

Exercise appropriate care in the handling of high voltages. Do not touch any conductive parts during operation.

Ensure the units are disconnected from the mains before exchanging the lamp connected to the PSU / ignitor resp. in to the end application. The residual charge left on the capacitors is a danger to life if the units are still connected to mains!

Caution: The residual charge on the capacitors can be a danger to life even if the units are disconnected from the mains. Please handle with care!

Both electronic lamp ballast and ignitor must never be installed or operated in an explosive or volatile atmosphere. Never use the ballast or ignitor near flammable

gases or liquids. See that there will be no moisture, dust or similar which could lead to short circuits or fire.

Before using the ballast or ignitor in any kind of outdoor application you have to take additional measures and observe special requirements. If you are uncertain, contact Philips.

No potential isolation is provided between line input and output. Accidentally grounding of an output terminal by direct contact or arcing to GND can damage the unit (no warranty replacement).

The unit is designed for case mounting. Due observation of electrical safety and RFI suppression code requirements is mandatory in all applications.

See that sufficient cooling of EPS and ignitor is provided.

All installation and repair work on this unit is only permitted by qualified personnel. Always comply with local safety requirements when operating the unit uncased.

Extreme care must be taken when testing the unit live. The use of an isolating transformer is mandatory. On no account may grounded test instruments / meters be used for this purpose!

Philips does not assume liability for disregarding of this notice, incorrect use of the EPS and ignitor or dis-regarding of any legal requirements.

This product is subject to technical changes without prior notice.