

GB Total light output is directly dependant on Gear Unit main voltage. Use the correct ballast tap according the actual main voltage.

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. (F)

- bgegebene Lichtstrom haengt von der anliegenden Netzspannung al nenanschluss am Vorschaltgerät entsprechend der anliegenden Netz
- NL De totale licht opbrengst is direkt afhankelijk van het voltage van de platine. Gebruik de juiste tap van de ballast afhankelijk van de net spanning.

- Il fluxo della lampada è directtaménte legato a la tensióne d'alimentazione della unitá elèttrica Utilizzare il collegamento a la tensione d'alimentazione guista.
- E El flujo de la lampara depende del voltage de alimentación. Utilize la conección correcta segon el voltage de alimentación
- S Ljusflödet är beroende på reaktorns driftspänning. Anslut reaktorn för rätt nätspänning där altenativ finns

Philips GearUnits ECB330/ECP330

Mounting instructions

0 O

00

 $-\odot$

° O O

00

00

O O

 $\mathbf{0}$

z 0 0

00

 $[\Phi]$

O O

Z O O

 \odot \bigcirc \bigcirc \bigcirc

z O O

00

00

0000 0.0 **O**

O O

(OO)

00

00

00

OO

 $\Phi \Phi$

Instructions de mon Montageanletiung Montage instruktic Instruzioni di monta	ntage	Instruccio Instruçõe Monterin	ones de mon es de montag gsinstruktior gsvejledning	em		۲ S	1ontaj y zerelési	oano- ja k rönergesi i utasításo ja montaż	, ok	ohjeet	٢	Vávod k mo	ontázi		
IEC EN61347		Э ІР20		P330		K ECP3			HS _{P5/EC}	C	e				
)	MAINS	kg	MIN	Ta °C	MAX	Ta °C	P [W]	Inom [A]	linrush[A] 30[s]	I _{lamp} [A]	FUSE ⁸ (10×38)	IGNITOR SI ³	IGNITOR	PA⁴
ECB330 2×HPI-TP	400W	230/240V 50Hz	12	-30	n/a ¹	45	n/a ^l	986 ²	4,3 ²	7,8 ²	3,8	2 x gG8A	-	-	x ⁶
2×SON-T	400W	230/240V 50Hz	12	-30	n/a ^l	45	n/a ^l	878 ²	4,4 ²	7,2 ²	4,5	2 x gG8A	х	x ⁵	-
2×SON-T	600W	230/240V 50Hz	13	-30	n/a ¹	45	n/a ^l	1284 ²	6,2 ²	9,8 ²	5,8	2 x gGI6A	х	-	-
2×SON-T	600W	230V 50Hz	13	-30	n/a ¹	45	n/a ^l	1284 ²	6,2 ²	9,8 ²	5,8	2 x gGI6A	-	x ⁵	-
2×SON-T	600W	240V 50Hz	13	-30	n/a ¹	45	n/a ^l	1284 ²	6,2 ²	9,8 ²	5,8	2 x gGI6A	-	x ⁵	-
HPI-T 100	0W	230/240V 50Hz	15	-30	n/a ¹	45	n/a ^l	051	5,3	8,7	8,25	gGI6A	-	-	x ⁶
HPI-T 200		380/400/4 1 5∨ 50H	z 19,5	-30	n/a	45	n/a	2059	6,0	10,9	9,1	gGI6A	-	-	x ⁶
MHN-FC	000W	230/240V 50Hz	16	-30	n/a ¹	45	n/a ^l	1110	6,0	8,0	8,9	gGI6A	х	-	-
MHN-FC 2	2000W	360/380/400/415V	50Hz 20,5	-30	n/a ^l	45	n/a ^l	2158	5,3	8,2	9,6	gGI6A	х	-	-
MHN-LA I	000W	230/240V 50Hz	16	-30	n/a ¹	45	n/a ^l	1110	6,0	8,0	9,3	gGI6A	x ⁷	-	-
MHN-LA 2	2000W	360/380/400/415V	50Hz 20,5	-30	n/a ¹	45	n/a ^l	2166	5,3	8,2	9,6	gGI6A	×	-	-
MHN-SE 2	.000W	380/400/415/430V	50Hz 22	-30	n/a ¹	45	n/a ^l	2120	5,9	8,0	11,6	gGI6A	x ⁷	-	-
MHN-SA 2	2000W	380/400/415/430V	50Hz 22	-30	n/a	45	n/a	2190	5,8	8,0	11,2	gGI6A	x ⁷	-	-
SON-T 10	00W	230/240V 50Hz	16	-30	n/a	45	n/a	1075	5,4	7,3	10,3	gGI6A	х	x ⁵	-
SON-T 60	0W	230/240V 50Hz	7,5	-30	n/a ^l	45	n/a ^l	642	3,I	4,9	5,8	gG8A	х	-	-
SON-T 60	0W	230V 50Hz	7,5	-30	n/a ^l	45	n/a ^l	642	3,I	4,9	5,8	gG8A	-	x ⁵	-
SON-T 60	0W	240V 50Hz	7,5	-30	n/a ¹	45	n/a ^l	642	3,I	4,9	5,8	gG8A	-	x ⁵	-
ECP330 2×HPI-TP	400W	230/240V 50Hz	18	-30	-30	45	55	986²	4,3 ²	7,8 ²	3,8	2 x gG8A	-	-	x ⁶
2×SON-T	400W	230/240V 50Hz	8	-30	-30	45	55	878 ²	4,4 ²	7,2 ²	4,5	2 x gG8A	х	x ⁵	-
2×SON-T	600W	230/240V 50Hz	9	-30	-30	45	55	1284 ²	6,2 ²	9,8 ²	5,8	2 x gGI6A	х	-	-
2xSON-T	600W	230V 50Hz	19	-30	-30	45	55	284 ²	6,2 ²	9,8 ²	5,8	2 x gGI6A	-	x ⁵	-
2xSON-T	600W	240V 50Hz	19	-30	-30	45	55	1284 ²	6,2 ²	9,8 ²	5,8	2 x gGI6A	-	x ⁵	-
HPI-T 100	0W	230/240V 50Hz	19	-30	-30	45	55	051	5,3	8,7	8,25	gGI6A	-	-	x ⁶
HPI-T 200	0W	380/400/415V 50H	z 24	-30	-30	45	55	2059	6,0	0,9	9,I	gGI6A	-	-	x ⁶
MHN-FC	000W	230/240V 50Hz	20,5	-30	-30	45	55	1110	6,0	8,0	8,9	gGI6A	х	-	-
MHN-FC 2	2000W	360/380/400/415V	50Hz 25	-30	-30	45	55	2158	5,3	8,2	9,6	gGI6A	х	-	-
MHN-LA I	000W	230/240V 50Hz	20,5	-30	-30	45	55	1110	6,0	8,0	9,3	gGI6A	x ⁷	-	-
MHN-LA I	000W	220V 60Hz	20,5	-30	-30	45	55	1110	6,I	8,I	10,3	gGI6A	x ⁷	-	-
MHN-LA 2	2000W	360/380/400/415V	50Hz 25	-30	-30	45	55	2166	5,3	8,2	9,6	gGI6A	х	-	-
MHN-SE 2	000W	380/400/415/430V	50Hz 26,5	-30	-30	45	55	2120	5,9	8,0	11,6	gGI6A	x ⁷	-	-
MHN-SE 2	.000W	380/400/415/430V	60Hz 26,5	-30	-30	45	55	2120	5,9	8,0	11,6	gGI6A	x ⁷	-	-
MHN-SA 2	2000W	380/400/415/430V	50Hz 26,5	-30	-30	45	55	2190	5,8	8,0	11,2	gGI6A	x ⁷	-	-
MHN-SA 2	2000W	380/400/415/430V	60Hz 26,5	-30	-30	45	55	2190	5,8	8,0	11,2	gGI6A	x ⁷	-	-
SON-T 10	00W	230/240V 50Hz	20,5	-30	-30	45	55	1075	5,4	7,3	10,3	gGI6A	х	x ⁵	-
SON-T 60	0W	230/240V 50Hz	12	-30	-30	45	55	642	3,I	4,9	5,8	gG8A	x	-	-
SON-T 60	0W	230V 50Hz	12	-30	-30	45	55	642	3,I	4,9	5,8	gG8A	-	x ⁵	-
SON-T 60	0W	240V 50Hz	12	-30	-30	45	55	642	3,I	4,9	5,8	gG8A	-	x ⁵	-

Not applicable for outdoor use
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. 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.

Distance between lamp-gear unit limited to 1500m for HPI-TP 400W, 350m for HPI-TP 1000W and 1200m for HPI-TP 2000W.

 R. Gear unit suitable also for floodlights equipped with electronic hot restrike ignitor (HRE).
Fuse optional, applies as 1-phase protection for 230/240V versions and 2-phase protection for 360-430V versions. 9. Lamp currents are appr mate data. For exact data refer to the lamp data sheet.

12NC 4427 100 66682

Versiondate: 05/03/2013 Data subject to change without notice

Printed in Poland

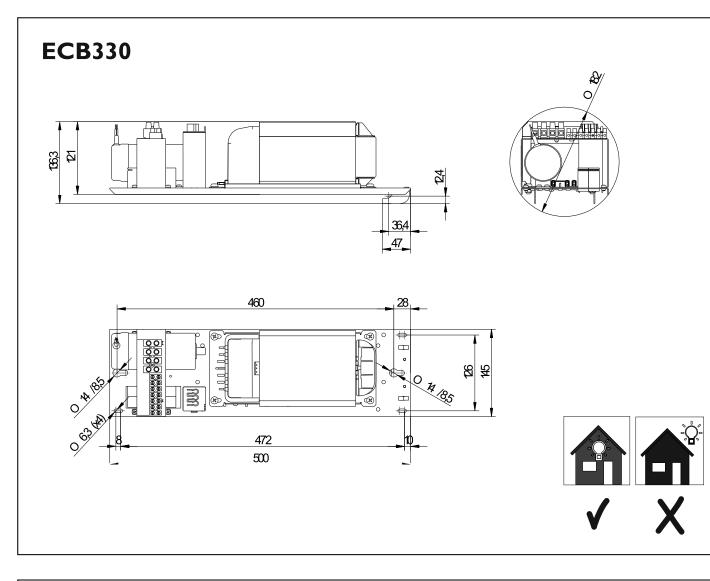
www.philips.com/lighting

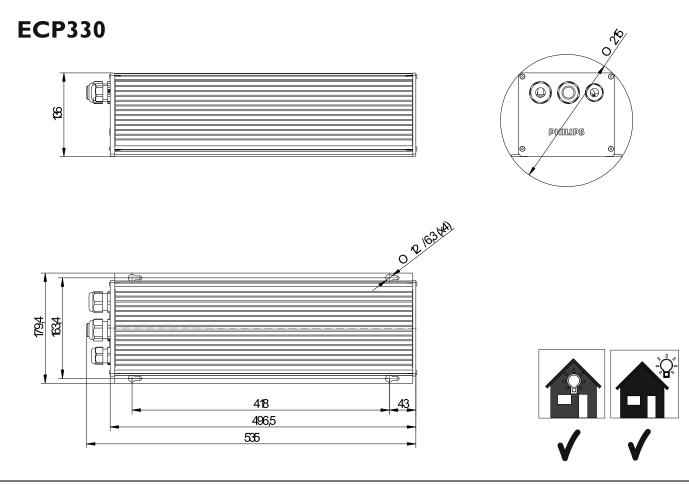


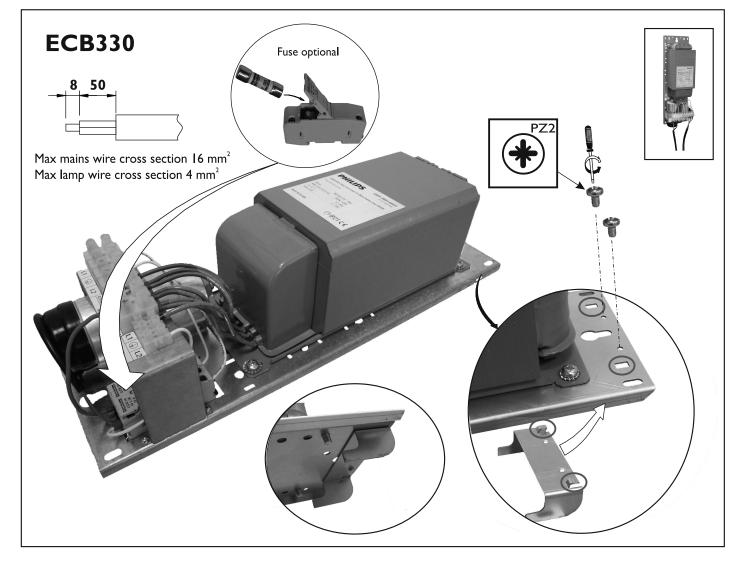
Disconnect before servicing Mettre hors tension avant intervention Offnen nur voor onderhoud Demonteren voor onderhoud

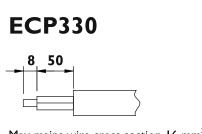
Togliere tensione prima di fare manutenc Desconectar antes de manipular Bryt strömmen före lampbyte

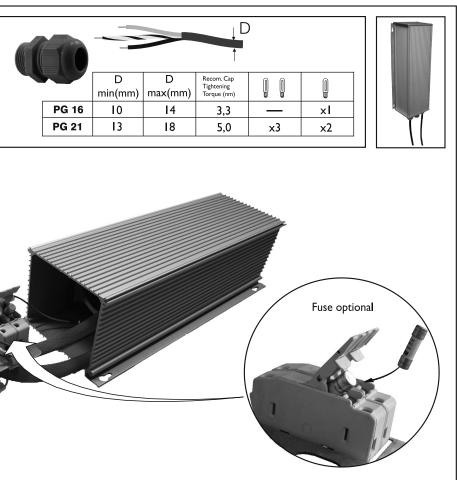




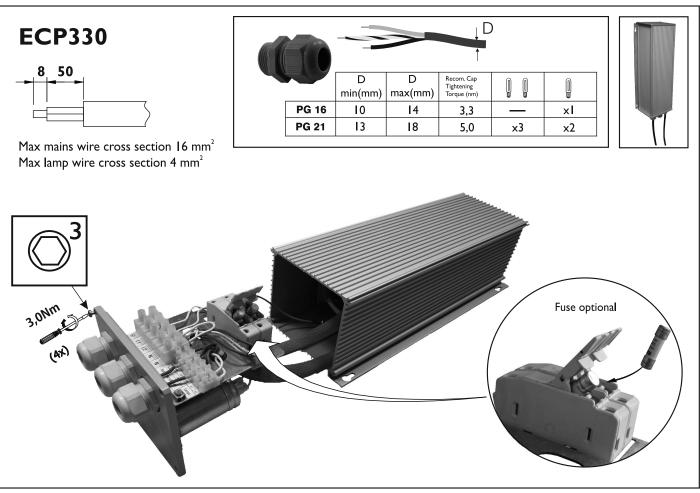








Max lamp wire cross section 4 mm²



Philips GearUnits ECM 330

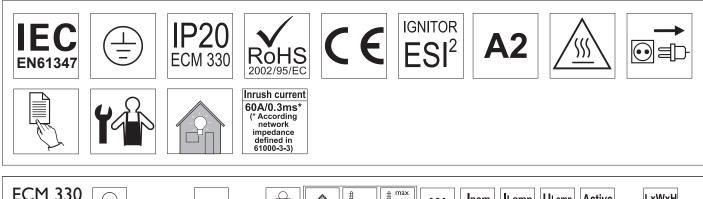
Mounting instructions

Instructions de montage Montageanleitung Montage instruktie Istruzioni di montaggio

Instrucciones de montaje Instruções de montagem Monteringsinstruktioner Monteringsvejledning

Kokoonpano- ja kiinnitysohjeet Montaj yönergesi Οδηγίες συναρμολόγησης Instrukcja montazu

Szerelési utasítások Návod k montáži Монтажная инструкция



		MAII	ns kg	min	W	Inom (A)	Lamp ULamp (A) (V)	Active PFC	LxWxH (mm)
MHN-LA 1000W 220-480V 50-60Hz 3.4 -30°C +55°C 1040 5.1-2.3 9.5 145 PF>0.97 530x143x	MHN-SEH	2000₩ 277-480V	50-60Hz 3.4	-30°C	+55°C 2100	8.2-4.7	11 240	PF>0.97	530x143x127
	MHN-LA I	000W 220-480V	50-60Hz 3.4	-30°C	+55°C 1040	5.1-2.3	9.5 145	PF>0.97	530x143x127

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

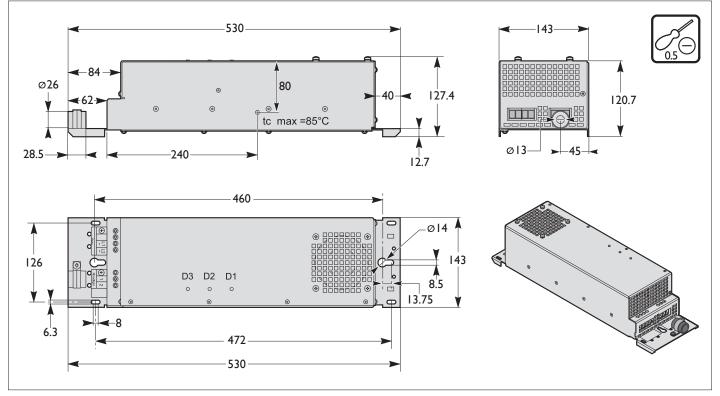
 Ignitor on the luminaire, not on the gear unit. Maximum distance in between e-ballast gear unit and floodlight is 80 m for 1000 W and 120 m for 2000 W versions. See below table for recommended cable cross sections.

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 Bestriebsleitstung 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

PHILIPS

4411 102 68142 12/2014 Data subject to change Printed in France www.philips.com/lighting

Image: Some the set of t						
Image: Contract of the second seco	CONNECTION 1000 1.5 mm² Less ther 2.5 mm² 20 to 4 4 mm² 40 to 6	n 20 m Less then 35 m 0 m 35 to 60 m 0 m 60 to 85 m			8	
Warning high leakage current earth connection sential before connecting supply (5.1.7.1 of IEC60950-1) recommends 2-phase fuse protection (fuses are not provided by Philips). The appropriate fuse value can be calculated as: Plamp × 1,5/Vin ≥ lfuse > Plamp × 1,2/Vin LED Status indicators (ED Status indicators (and the papediod range) (beck fram LED D2 (green) (beck fram LED D3 (red) (beck fram ************************************			x3			S x3 1.2 Nm S x3 1.2 Nm S x3 1.2 Nm S x3 1.2 Nm S x3 S x3
LED D1 (velow) LED D2 (green) LED D3 (red) Gontinuously lighting Fan speed out of specified range, check Fan IED D1 (velow) IED D3 (red) Flashing Mains voltage out of woltage Inition sequence, balast in standby mode, check lamp and ignitor voltage After over voltage protection activation, driver start again when Umains will off during 30 sec. and then return to nominal value. Reset by Mains voltage out watage Inition sequence auto restrike Mains off It is sesential to isolate the electronic balast/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. Parsonel 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 from the emains. Please handle with care! Both electronic lamp balast and ignitor may tind 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 dama	essential before	connecting supply	on red Th	commends 2-phase fuse pro e appropriate fuse value ca	otection (fuses a n be calculated a	re not provided by Philips).
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	LED Status LED D1 (yellow) Continuously Fan speed out of specified range, check Fan Flashing Mains voltage out of specified range, check mains voltage out of specified range, check mains voltage	Normal operating mode No successful i during complet sequence, balk mode, check la Ignition sequence active/waiting for auto restrike Lamp-end-of lif replace lamp.	e ignition ast in standby mp and ignitor	when Umains return to After over voltage pro Umains will off during Behavior after over ter	o nominal value tection activatio 30 sec. and ther	on, driver start again when a return to nominal value.
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.	Do not attempt to Contact Philips if y The Ballast and the	handle or operate an electronic ou are uncertain of hazards asso gignitor produces starting voltag	power supply ciated with the	(EPS) and ignitor before compl se devices.	etely reading and	understanding this notice.
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.	Ensure the units are disconnected left on the capacitors is a danger Caution: The residual charge on Both electronic lamp ballast and	ed from the mains before exchan to life if the units are still conne the capacitors can be a danger to	ging the lamp c cted to mains! o life even if the	onnected to the PSU / ignitor i e units are disconnected from t	resp. in to the end he mains. Please h	andle with care!
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.	Before using the ballast or ignito contact Philips. No potential isolation is provide the unit (no warranty replaceme The unit is designed for case mo See that sufficient cooling of EPS All installation and repair work of uncased.	r in any kind of outdoor applicat d between line input and output. nt). unting. Due observation of elect and ignitor is provided. on this unit is only permitted by o	ion you have to Accidentally gr rical safety and qualified persor	o take additional measures and counding of an output terminal RFI suppression code requiren anel. Always comply with local s	by direct contact nents is mandator safety requirement	or arcing to GND can damage y in all applications. ts when operating the unit
	be used for this purpose! Philips does not assume liability	for disregarding of this notice, in	correct use of t			



