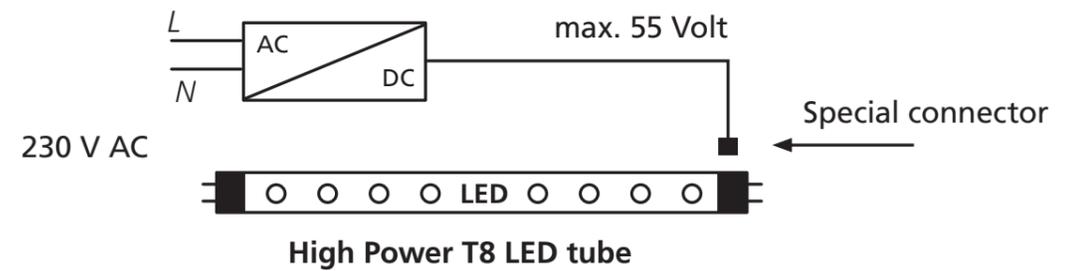


Operating manual

High Power T8 LED tube

Energy-efficient replacement for conventional fluorescent tubes
T8/600-Dxx, T8/1200-Dxx, T8/1500-Dxx types



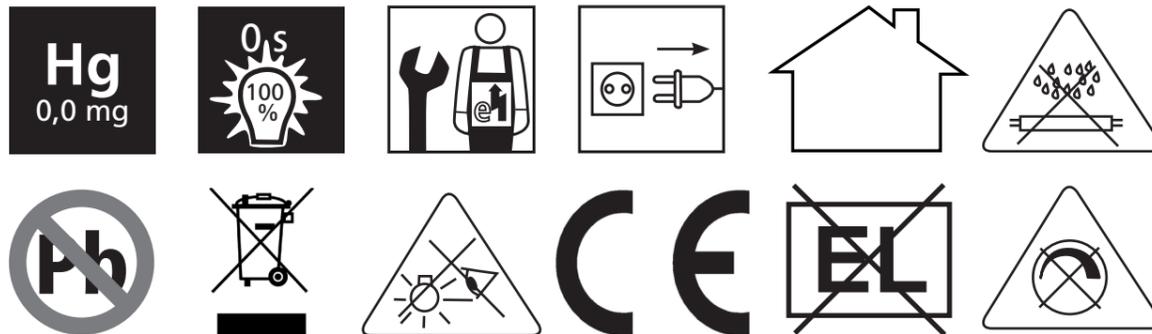
The High Power T8 LED tube is a light fitting that uses the latest LED technology. From now on, you will be able to implement your planned lighting arrangements in an environmentally friendly manner with a high degree of energy efficiency thanks to this product's excellent reliability and long service life. With the High Power T8 LED tube, you will be able to replace the conventional fluorescent tubes that you have used up to now with an energy-efficient light fitting in a simple manner. When using your new High Power T8 LED tube, please observe the following instructions and other applicable installation regulations to ensure a long service life and safe operation for this product.

Scope of delivery

- 1 High Power T8 LED tube, T8/600-Dxx, T8/1200-Dxx or T8/1500-Dxx types
- 1 Power LED power supply unit, CL7005-240-A/B/C type, 350 mA / 700 mA / 220 V-240 V AC with safety extra-low voltage, 50 cm connection cable with a special connector for the High Power T8 LED tube
- 1 additional grommet (see installation instructions, item H)
- 2 spacers
- 1 operating manual

Article designations/article numbers

- | | |
|---|---|
| High Power LED Röhre (tube) T8-600-D27 / 014014012 | High Power LED Röhre (tube) T8-1500-D27 / 014014009 |
| High Power LED Röhre (tube) T8-600-D40 / 014014010 | High Power LED Röhre (tube) T8-1500-D40 / 014014007 |
| High Power LED Röhre (tube) T8-600-D50 / 014014015 | High Power LED Röhre (tube) T8-1500-D50 / 014014013 |
| High Power LED Röhre (tube) T8-600-D65 / 014014011 | High Power LED Röhre (tube) T8-1500-D65 / 014014008 |
| High Power LED Röhre (tube) T8-1200-D27 / 014014006 | |
| High Power LED Röhre (tube) T8-1200-D40 / 014014004 | |
| High Power LED Röhre (tube) T8-1200-D50 / 014014014 | |
| High Power LED Röhre (tube) T8-1200-D65 / 014014005 | |

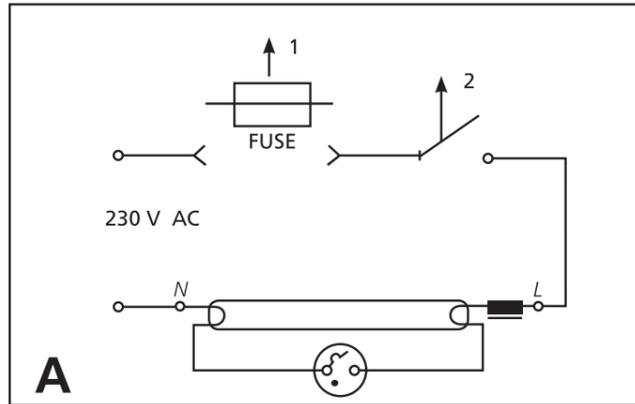


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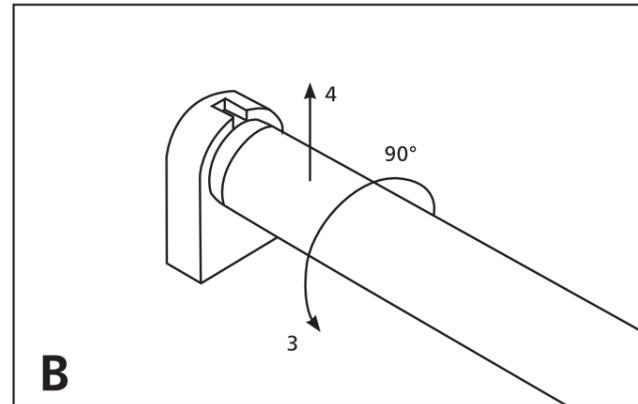


Installation instructions

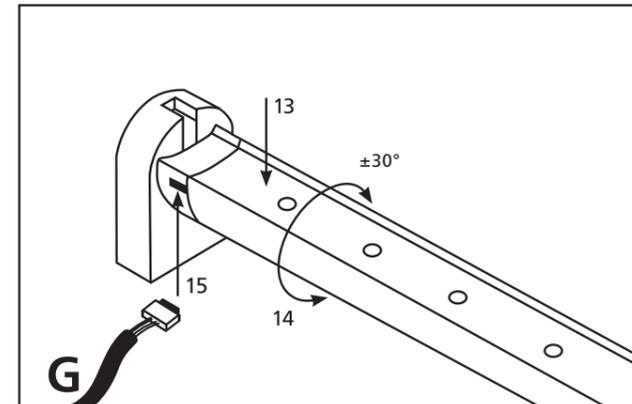
High Power T8 LED tube



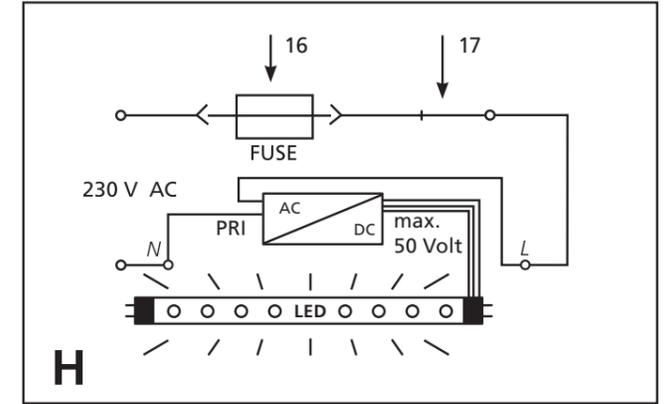
Switch off the power supply to the lamp. Remove the corresponding main fuse.



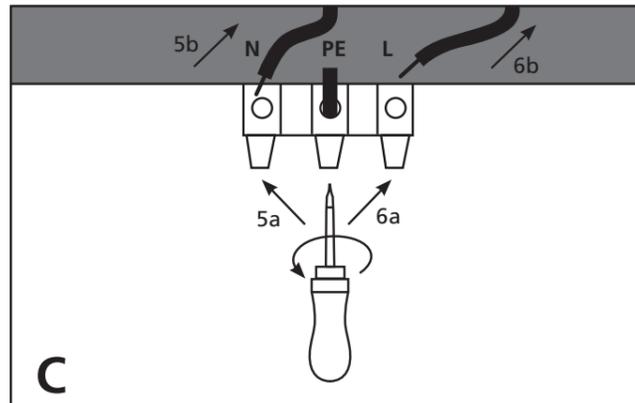
Remove the cover on the lamp and the old fluorescent tube and, if necessary, open the panelling.



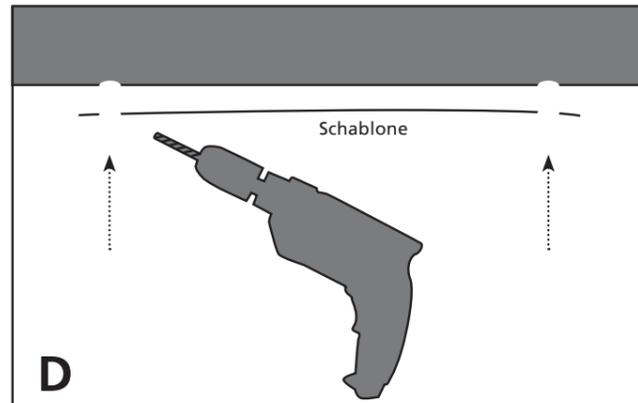
Insert the LED tube. Insert the special connector at one end. Ensure that the LED tube is firmly and securely in place. (Ensure that it cannot become unattached on its own.)



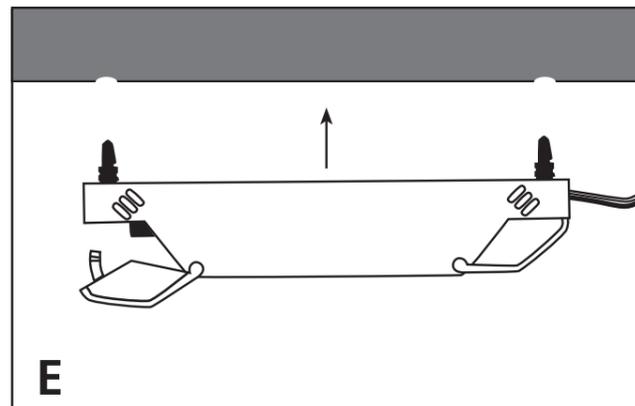
Once the lamp casing (if present) has been mounted, the main fuse and switch can then be returned to their operating conditions. The LED tube will light.



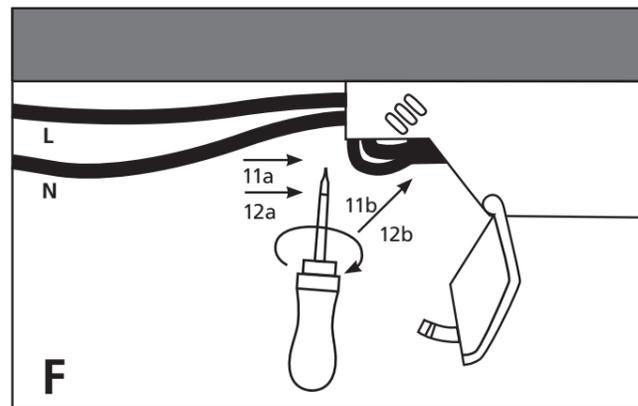
Disconnect the old N and L power connections on the lamp.



Drill two mounting holes in the lamp housing. Use the template for this purpose. The holes have a diameter of 4.2 – 4.5 mm. Make sure that you do not damage cables by crushing them, for example.

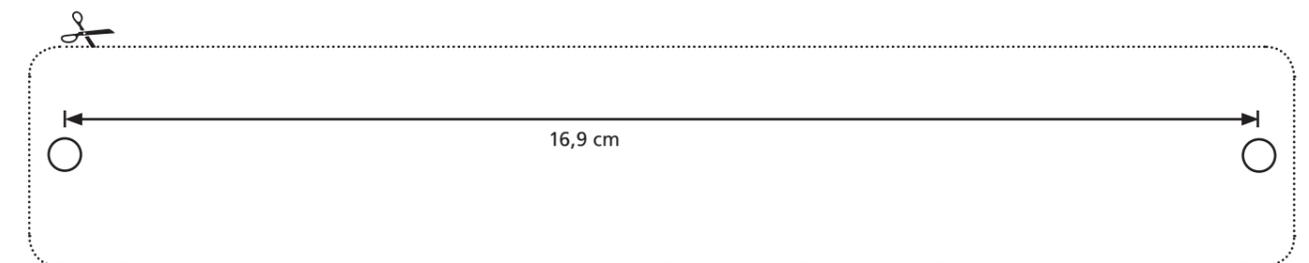


Mount the power supply unit provided close to the 230 V connection terminal using the two spacers provided. A template for the mounting holes is supplied. Ensure the power supply unit cannot fall down.



Connect the two primary wires. In accordance with the EN 605998 standard, the connection cables must be firmly attached to the cable clamp to prevent them being pushed or pulled.

Template



Guarantee conditions

Thank you for choosing this product! We are sure that your new device will provide you with a lot of enjoyment in the coming years. Plättner Elektronik GmbH (PE) provides a guarantee of 36 months from the date of purchase for this product. If a change of ownership takes place due to the product being sold on, the guarantee shall be based on the remaining guarantee period from the date of initial purchase.

The validity period varies from country to country depending on the laws applicable locally. For example, a period of just one (1) year applies in Great Britain. In the case of products with a guarantee period of over three (3) years, guarantee claims or other questions relating to the guarantee that arise after the three (3) years have expired should be addressed directly to PE or its distributors. The address and telephone number can be found at www.plaettner.com.

Guarantee conditions

1. The guarantee is only valid in combination with the original invoice, sales receipt or a confirmation of the guarantee period from PE. The repair or replacement of the device or of individual parts does not result in an extension or renewal of the guarantee period.
2. The decision to repair or replace a faulty device or component parts shall be taken at the sole discretion of PE. The relevant replaced device or component part shall then become the property of PE.
3. PE attaches great importance to good service which ensures that repairs are to be carried out quickly and reliably. For this reason, all guarantee repairs shall be carried out by PE itself or by appointed specialist dealers. If repairs are carried out during the guarantee period by parties who are not authorised or appointed, the guarantee shall become null and void.
4. After the end customer has reported the fault, the faulty device shall be replaced with a comparable model once PE has granted its approval for replacement. This replacement device becomes the property of the end customer only after the faulty device has been handed over and only if the guarantee claim is not rejected within 4 weeks of the faulty device being handed over to PE. The faulty device is to be handed over without delay, within five (5) working days at the latest.

Disposal

This electrical device must NOT be disposed of in the household waste. To dispose of it in a proper manner, please contact the public waste collection points in your municipality. Your municipal authority will provide information on

Otherwise the end customer shall be charged for the replacement device in accordance with the current end consumer price.

5. The guarantee from PE does not include the following items:
- a) Routine checking, maintenance and repair, and the replacement of wearing parts
 - b) Faults that have resulted from incorrect operation or incorrect installation
 - c) Damage caused by storms, water, fire, surge voltage, force majeure or war, incorrect connection to the power supply, insufficient ventilation or other causes that PE has no influence upon
 - d) Use of the product outside of the scope of the product specification
 - e) Incorrect mounting or installation
 - f) Damage caused by transport or by inappropriate packaging
 - g) Products with no series number or where the series number has been changed, deleted, removed or otherwise rendered illegible. The guarantee period has no bearing whatsoever on customers' statutory guarantee entitlements or other contractual entitlements from dealers and does not limit these entitlements in any manner.

In the case of complaints or claims regarding faults that fall within the scope of these guarantee exclusions, PE reserves the right to charge the customer for any costs that may arise from these complaints or claims.

PE and its distributors are not liable – to the extent permitted by law – for direct or indirect damages or losses. Claims for compensation for damages based on this guarantee are excluded to the extent permitted by law.

Our general terms of delivery for electronics products and services can be viewed at www.plaettner.com or requested by telephone.

the location of these collection points, on any applicable limits on the amount of waste that they will accept each day/month/year and on the costs that may apply if the waste is collected from your home.

Notes

Safety information

Always disconnect the power supply before carrying out installation or maintenance. Avoid high ambient temperatures. Never look directly into the light source as this could cause eye damage. The safety information and technical specifications must be strictly adhered to.

The quick and simple installation of the High Power T8 LED tube (600/1200/1500)-Dxx must only be carried out by qualified personnel such as the employees of a specialist electrical company (qualified electrician as per DIN VDE 1000-10). Protect the product against dust, moisture and splashes. The High Power T8 LED tube (600/1200/1500)-Dxx must not be damaged or operated when damaged.

An EULUMDAT file can be provided on request.

Appropriate usage

The **High Power T8 LED tube (600/1200/1500)-Dxx** serves as a substitute and replacement for conventional fluorescent tubes. The **High Power T8 LED tube (600/1200/1500)-Dxx** emits light only over a certain angular range, unlike a fluorescent lamp which emits over 360°. The product should only be used for general lighting or for lighting in rooms.

Use for purposes other than those specified is not permitted. The overall product must not be modified or converted in any way. Modifications may lead to damage to the product and, in addition, may also result in hazards such as short-circuits, fire, electric shock, etc. All personal injury and material damage caused by inappropriate usage is the responsibility of the operator of the product and not of the manufacturer of the product.

Please note that incorrect operation or connection of the product is outside of our scope of influence. Consequently, we accept no liability whatsoever for damage caused in this way.

Usage instructions

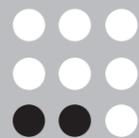
This operating manual is an integral component of this product. It contains important information on putting the product into operation and on operating it. Please remember this if you pass the product on to third parties. For this reason, please keep this operating manual safe for future reference. A special Power LED power supply unit with a constant current output is part of the scope of delivery of the High Power T8 LED tube (T8/600-Dxx, T8/1200-Dxx, T8/1500-Dxx).

Use only the power supply unit that we provide; the use of other power supply units will render the warranty null and void and will invalidate any liability on our part. The High Power T8 LED tube (600/1200/1500)-Dxx does not light up if it is connected under live voltage. If the LED tube should be connected under live voltage, disconnect it from the power supply and wait until the LEDs flash before switching it on again.

WARNING! Always observe the information in this manual to ensure that the High Power T8 LED tube (600/1200/1500)-Dxx is installed and operated in a safe manner. Observe the applicable installation regulations. When using the High Power T8 LED tube (600/1200/1500)-Dxx as a replacement for fluorescent tubes with a ballast, the ballast and the starter can be left in the lamp. The lamp must be disconnected from the power supply when carrying out installation.

The light-emitting characteristics of the High Power T8 LED tube (600/1200/1500)-Dxx make it likely that the lighting behaviour that you are accustomed to for a given light fitting will now change. No guarantee is given that lighting standards such as those that apply to workplaces will be adhered to after retrofitting this product. For this reason, it is recommended that the lighting situation be checked.

The High Power T8 LED tube (600/1200/1500)-Dxx has the protection degree IP20. Applications that are subject to moisture or dust are permitted if a lamp with the appropriate protection degree is used. Transformers can be connected in parallel on the primary side. The G-13 base only has a mechanical support function. The G-13 base has no electrical function; in particular, it has no function relating to the mains voltage or to low voltage.



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Made in Germany, WEEE-Reg.Nr DE 61017759

Technical data

High Power T8 LED tube

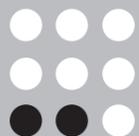
High Power T8 LED tube				
Model/parameter		T8 600-Dxx	T8 1200-Dxx	T8 1500-Dxx
Colour temperature	D27	Warm white 2700K		
	D40	Neutral white 4000K		
	D50	Cold white 5000K		
	D65	Day white 6500K		
Service life		> 50.000 hrs.		
Colour rendering index		>80 CRI		
Luminous flux	D27	650Lm	1280Lm	1550Lm
	D40	900Lm	1800Lm	2160Lm
	D50	950Lm	1900Lm	2280Lm
	D65	1000Lm	2000Lm	2400Lm
Power consumption		ca. 350mA 10W	ca. 700mA 20W	ca. 700mA 24W
Power supply unit / LED tube		ca. 12W	ca. 25W	ca. 29W
Ambient temperature		-25°C to +50°C		
Storage temperature		0°C to 40°C		
Dimensions (L x W x H)		600mm x 26mm x 20mm	1200mm x 26mm x 20mm	1500mm x 26mm x 20mm
Weight		190g	380g	485g
Base		G13		
Diagram of LED tube:				

Technical data

Power LED power supply unit

Power LED power supply unit	
Model/parameter	Harvard CL700S-240-A/B/C/
Mains supply voltage range	100 to 277V AC RMS
Mains supply frequency	47 to 63Hz
Power factor λ	> 0,95 (typical 0,98)
Ambient temperature	-25°C to 50°C
Max. operating temperature	80°C
Dimensions (L x W x H)	179mm x 31mm x 31,5mm
Weight	120g
Diagram of power supply unit	
General	
Light properties	Flicker-free light compared to conventional fluorescent tubes; no UV or IR radiation, targeted light, beam angle of 120°, rotatable
Protection degree	IP 20
Energy label	A
Guarantee	3 years
Energy saving	Up to 65%, immediate reduction in electricity consumption
Conformity	EnVKV, EN 61347-1, EN 61347-2-13, IEC/EN 61000-3-2, IEC/EN 61000-3-3, IEC/EN 61547:2009, EN 55015:2006:2007 + A1, IEC/EN 61000-4-5, IEC/EN 62471-1 + IEC/TR 62471-2, DIN EN 60529, DIN EN 62031:2009-01, CE-konform, RoHS-konform, WEEE-konform, ENEC zertifiziert, TÜV zertifiziert/ Zeichengenehmigungsausweis Nr. 4362/12, Richtlinie 2006/95/EG, Richtlinie 2011/65/EU, Richtlinie 2009/125/EG

The performance parameters quoted here are guideline values and are subject to production-related fluctuations.



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