

Safety Information

>All electrical work must be undertaken by a qualified contractor to ensure compliance with latest edition BS7671 and IEE/IET wiring regulations.

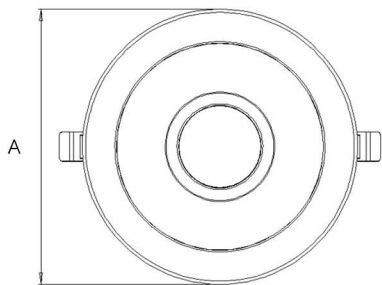
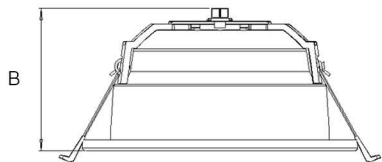
> Before installing the LED Downlight or doing any maintenance, ensure power supply is turned off at the circuit breaker or fuse box.

> This product is designed for permanent connection to fixed wiring; the circuit should be protected with the appropriate MCB or fuse.

Environment

>Please DO NOT dispose of electrical items or packaging as unsorted waste. Use the recycling facilities provided by your local authorities.

PRODUCT DIMENSIONS



Size(Inch)	A	B
6	170mm	86mm
8	223mm	106mm

Important Warranty Information

The LED Downlight has a 3 year warranty, which can be extended free of charge to 5 years by registering online via the website address below. The registrant must provide the product part number and date of manufacture, which can be found on the label attached to the luminaire housing.



Certificate No. FS 590684



Certificate No. EMS 590685

NET LED Lighting
Buckwing Business Park
300 Anderson Road
Cambridge
CB24 4UQ
sales@netled.co.uk
www.netled.co.uk

Technical Helpline: 01223 851505
Email: support@netled.co.uk

www.netled.co.uk/downloads

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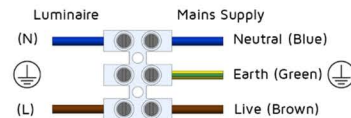
KINGSTON LED DOWNLIGHT INSTALLATION GUIDE

Part Number	Description
NET-60-05-06	6" Standard
NET-60-05-07	6" Emergency - Maintained/Self Test
NET-60-05-08	6" Dimmable One4All
NET-60-05-09	6" Dimmable - Maintained/Self Test
NET-60-05-10	6" Dimmable Dali Emergency
NET-60-05-26	8" Standard
NET-60-05-27	8" Emergency - Maintained/Self Test
NET-60-05-28	8" Dimmable One4All
NET-60-05-29	8" Dimmable - Maintained/Self Test
NET-60-05-30	8" Dimmable Dali Emergency

SUPPLY/EARTH CLASS

Driver

220-240V AC 50/60 Hz
Fig.1 Mains Input Termination



Class II



Installation procedure: Carefully read the instructions and ensure the mains supply is isolated before installation. Please follow the safety information overleaf before carrying out any installation. When installing, leave a space of at least 1.2m between the LED Downlight and any heating source/air conditioning unit. Please retain this leaflet for future reference.

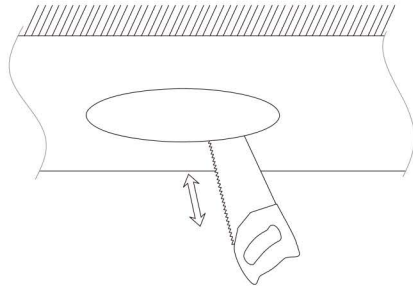
LED Downlight Installation:



 Replaceable light source by professional
 

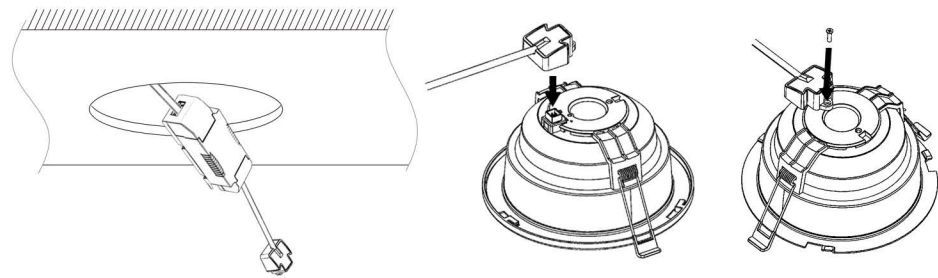
 Replaceable control gear by professional

Step 1: Isolate mains power supply before starting any installation. Cut out a mounting hole in the ceiling as per dimensions in the table below.

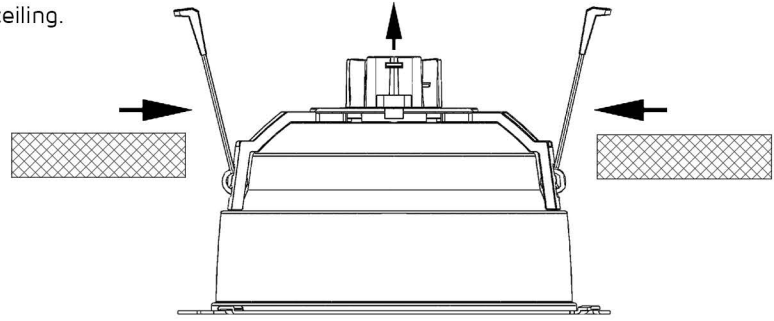


Downlight	Cut-out
6 inch	Ø145-158mm
8 inch	Ø190-210mm

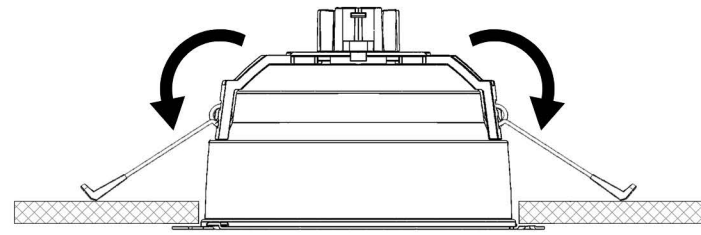
Step 2: Wire the LED driver to the mains supply junction box. Connect the Downlight and Driver using the inter-locking connector. Insert the connector securing screw.



Step 3: Press clasping springs back and push downlight body into the aperture until it's fixed in the ceiling.



Step 4: Switch on the mains supply to test the Downlight for correct operation.



Optional additional products: A number of additional compatible products are available.

Other products from NET LED Lighting: Full range available at www.netled.co.uk.

3 Hour emergency Kits

LED Downlights are compatible with our 3 Hour Emergency Kits. Units maintain compatible Downlights

Emergency kits available for the 6" & 8" Downlights



NET-50-12-08

Full specifications are available on request or at www.netled.co.uk

Dimming accessories

We can supply DALI and 1-10V dimming accessories.

Dimmable drivers available for the 6" & 8" Downlights.

Full specifications are available on request or at www.netled.co.uk



For wiring diagram, please view the QR code above.

Safety Information:

- The dimming cables should be run separately from the connections and mains cables to ensure good EMC conditions.

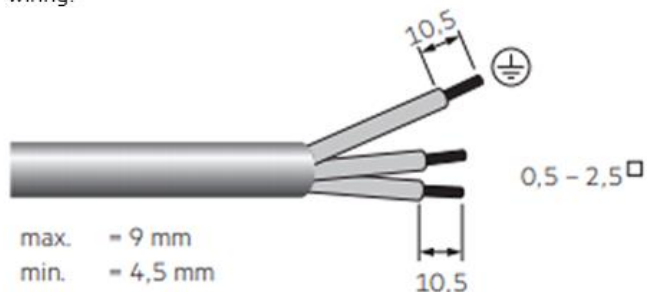
Wiring the plug-in terminal:

- Use solid wire or stranded wire with the correct cross-section
- Strip off correct length of insulation; you may need to twist the tool slightly
- If stranded wire is used: push onto the terminal from above to be able to insert the wire
- Insert the bare end into the terminal

Detaching the plug-in terminal:

- Push onto the terminal from above to release the wire
- Pull out the wire at the front

Mains supply wires
Stranded with or solid wire from
0.5 to 2.5mm² may be used for
wiring.



For more information regarding driver settings/options, please
access the QR code below:



Tridonic LCA PRE, LC EXC



Certificate No. FS 590684



Certificate No. EMS 590685

TRIDONIC

Dimming Driver Installation Guide

Distributed by
NET LED
LIGHTING



NET LED Lighting
Buckway Business Park
300 Anderson Road
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www.netled.co.uk

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www.netled.co.uk/downloads
PRD-40-10-81

Installation procedure: Carefully read the installation instructions and ensure the mains supply is isolated before installation. Please follow the safety information overleaf before carrying out any installation. Please retain this leaflet for future reference.

DALI

Description:

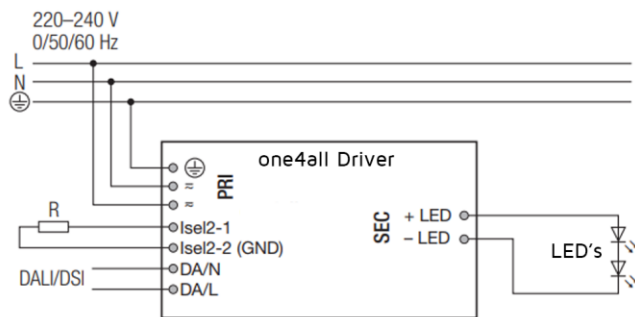
DALI (Digital Addressable Lighting Interface) is an interface protocol for digital communication between electronic lighting equipment.

DALI offers a lot of possibilities:

- DALI line: 64 LED Driver can be grouped to a line
- DALI groups: Every LED Driver can be attributed into 16 groups
- Addressability: All LED Driver are individually addressable
- Grouping: Possible without complicated rewiring
- Programmability: Individual programmability makes it possible to use functions which transcend the DALI standard
- Monitoring: Easily possible thanks to status feedback
- Wiring: Simple wiring with five pole standard cables and a cable length of max. 300 metres
- Wiring: Polarity-free control lines can be used for mains and control lines
- Wiring: Multiple wiring possibilities (star, series and mixed wiring)
- Unaffected by interruptions: All luminaires receive the same, unaffected digital signal and dimming level
- Similar light level from first to last luminaire.

Technical data of a DALI line:

- DALI voltage: 9.5V - 22.4V
- Maximum DALI system current: max. 250mA
- Data transfer rate: 1200 Baud
- Maximum line length: up to 300m (for 1.5mm²)



switchDIM/Push

Description:

With the switchDIM function it is possible to use the mains voltage as a control signal.

The phase of a standard mains voltage push button is connected to the terminal marked DA/L and the neutral conductor is connected to the terminal marked DA/N.

Using the function is easy and convenient:

- A short press (50-600 ms) switches the device on or off
- A long press (>600 ms) fades the connected operating device alternately up and down (between 1 and 100%)

The device has a switchDIM memory function. This is used, among other things, for storing the last dimming value in the event of interruptions in the power supply.

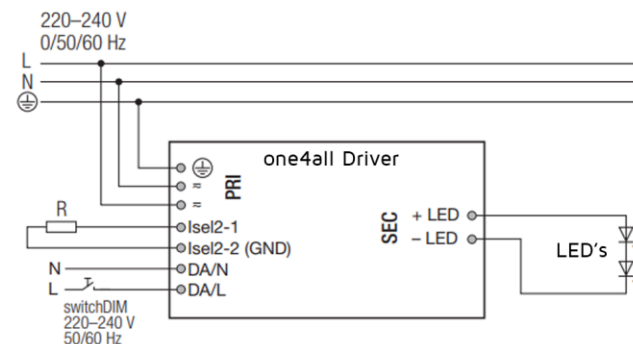
When power returns, the LED is automatically restored to its previous operating state and dimmed to the last value.

⚠ Caution!

Glow switches are not approved for controlling switchDIM. Glow switches may cause the LED Driver to spontaneously switch on or off or make sudden changes in the dimming value.

⚠ Caution!

A maximum number of 25 operating devices per switchDIM system should not be exceeded. If you have more devices please use DALI.



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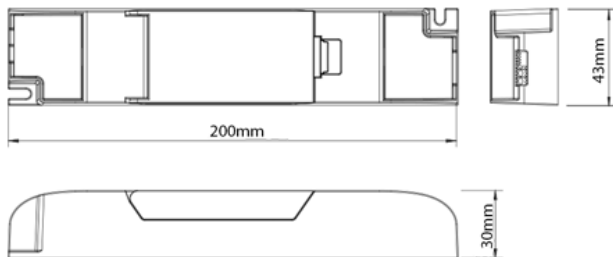
> Before installing the Emergency kit or doing any maintenance, ensure power supply is turned off at the circuit breaker or fuse box.

> This product is designed for permanent connection to fixed wiring; the circuit should be protected with the appropriate MCB or fuse.

Environment

>Please DO NOT dispose of electrical items or packaging as unsorted waste. Use the recycling facilities provided by your local authorities.

PRODUCT DIMENSIONS



Important Warranty Information

The Emergency Lighting Kit has a 3 year warranty. To claim you must provide the product part number and date of manufacture, which can be found on the label attached to the luminaire housing along with the original purchase invoice.



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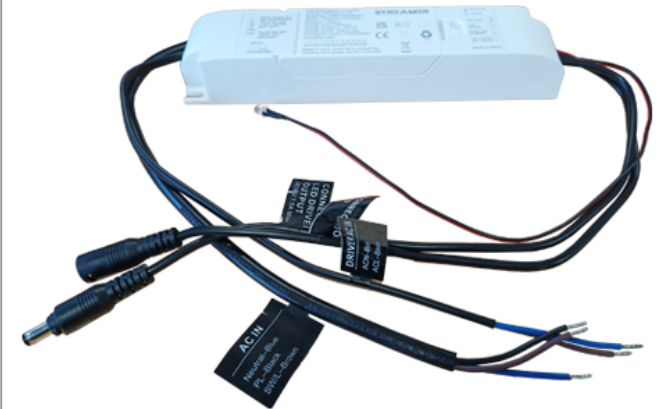
www.netled.co.uk/downloads

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Streamer LED Emergency Converter for Panels & Downlights

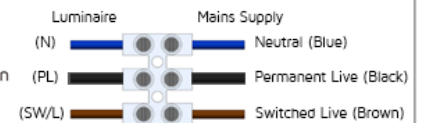
NET-50-12-08



SUPPLY/EARTH CLASS

Driver

220-240V AC 50/60 Hz
Fig.1 Mains Input Termination



Luminaire

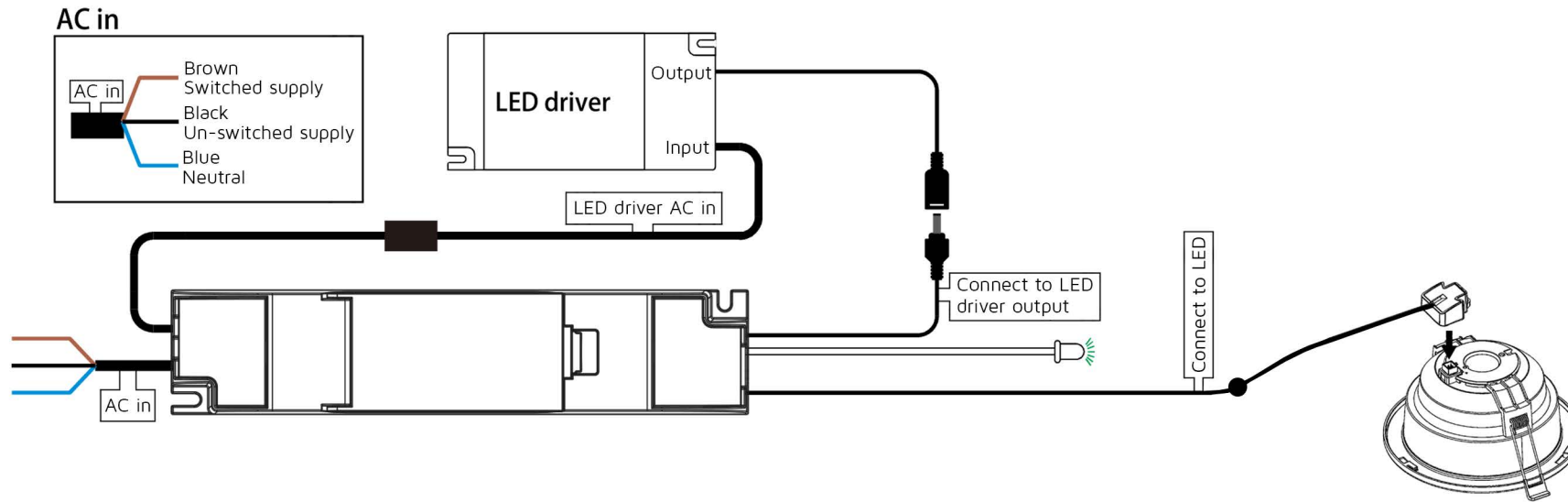
36-42V DC
Fig2. Twist Lock Connectors



Installation procedure: Carefully read the installation instructions and ensure the mains supply is isolated before installation. Please follow the safety information overleaf before carrying out any installation. Please retain this leaflet for future reference.

Step 1: Wiring Connection Details

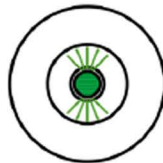
Remove the Emergency Kit from the packaging. Connect the Emergency Kit to the LED Downlight following the wiring guide which shows the typical wiring of the Emergency kit. The Emergency kit must have a connection to an unswitched supply originating from the same supply as the mains lighting in the area in which it is installed. When the wiring is complete, ensure the cables are secured in place using the fixings supplied.



Step 2: Apply Mains Supply

Apply mains supply to test the LED Downlight. The indicator LED will show green.

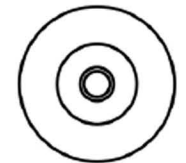
NOTE: The indicator LED must be visible when the fitting is in normal use, in accordance with BS EN 60598-2-22.



Step 3: Test Emergency Supply

To test, briefly fail the unswitched and mains supply to illuminate fitting from the internal battery. The indicator LED will be extinguished and the LEDs on the Downlight will illuminate.

NOTE: If the battery has not charged for an extended period, the luminaire may only illuminate briefly or fail to operate until the battery is charged.



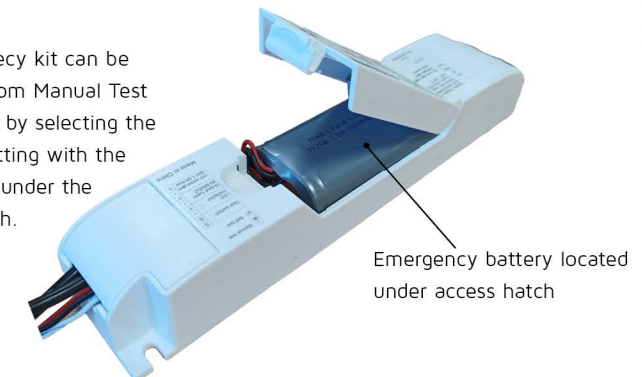
General Description

- Luminaire should only be installed by suitably qualified personnel.
- Installation should be carried out in accordance with the requirements of BS7671 and luminaires located as required by BS5266 Pt. 1 as well as BS EN 1838 and BS EN 50172.
- Before installing, connecting or servicing these luminaires, isolate the mains supply to which they are to be connected.
- To comply with the requirements of BS EN 50172, it is necessary to record the indicator LED status.

Technical Specifications	
Power	2.5W
Input Voltage AC	220-240V
Power Factor	>0.5
Output Voltage	DC 10-50V
Output Power	2.5W
Battery Pack	LiFePO4 3.2V 2000Ah
Battery Cut-off	5V
Recharge Period	24H
Hours Maintained	>3H
Operating Temperature	0°C to +50°C
Weight	0.285Kg



The Emergency kit can be switched from Manual Test to Self Test by selecting the required setting with the DIP Switch under the access hatch.



Emergency battery located under access hatch

Self-test

The emergency kits carry out self-tests automatically to ensure its functionality. The self-test includes 3 types of tests:

Initial test

- As soon as mains supply is connected, the emergency kit will carry out a functional test automatically for 3-seconds.
- In case of a failure, the LED will turn permanent red. Otherwise, the charge mode will start.

Functional test

- Refers to charging, discharging and the functioning of load.
- Carried out for 10 seconds automatically every 30 clander days.

Duration test

- Refers to the test of batteries capacity.
- Carry out every 180 calender days.

Rest mode








Rest mode can be initiated during emergency mode by pressing test switch longer than 3 seconds. The rest mode will be exited automatically after AC mains is reconnected.

Please note

If mains supply is off during self-test period, emergency conversion module would terminate self-test immediately and go into emergency mode.

Self-test is under the regulation of EN 62034.

Explanation of LED indicator

	Colour	LED indication	Status	Comment
	Green	Slow flashing green (3 sec on, 1 sec off)	Charging Mode	AC mode
	Green	Permanent green	Fully Charged	AC mode
	Green	Fast flashing green (0.1 sec on, 0.1 sec off)	Function test underway	
	Green	Slow flashing green (1 sec on, 1 sec off)	Duration test underway	
	Red	Permanent red	Load failure	Open circuit/Short circuit LED failure (emergency mode)
	Red	Slow flashing red (1 sec on, 1 sec off)	Battery failure	Battery failed the duration test or function test/No battery
		Green and red off	DC mode	Battery operation (emergency mode)

Sheet Number	Site			
Test types:	C = Commissioning and verification test			
	M = Monthly test (see BS EN 50172) short function test			
	A = Annual test (BS EN 50172) full rated duration test			
Date of test	Test Type	Result - Test passed No action needed	Result - Test failed	
		Name	Need for repair of system notified	Need for safeguarding of premises notified
	C			
	M - 1st Month			
	M - 2nd Month			
	M - 3rd Month			
	M - 4th Month			
	M - 5th Month			
	M - 6th Month			
	M - 7th Month			
	M - 8th Month			
	M - 9th Month			
	M - 10th Month			
	M - 11th Month			
	A - ___ Year			
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