

Safety Information

> All electrical work must be undertaken by a qualified contractor to ensure compliance with latest edition BS 7671 and IEE/IET wiring regulations.

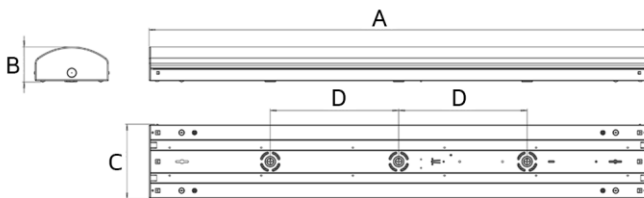
> Before installing a Trinity LED Linear or doing any maintenance, ensure power supply is turned off at the circuit breaker or fuse box.

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



A	B	C	D
1165	79	170	300
1500	79	170	300
1800	79	170	300

All units in mm

Important Warranty Information

The Trinity LED Linear 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
Buckingway 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

Distributed by



TRINITY LINEAR INSTALLATION GUIDE

Part Number	Description
NET-41-11-30	4ft Standard 23W/32W
NET-41-11-32	4ft Emergency 23W/32W
NET-41-11-34	4ft Dimmable 32W
NET-41-11-36	4ft Dim Emg 32W
NET-41-11-40	5ft Standard 34W/50W
NET-41-11-42	5ft Emergency 34W/50W
NET-41-11-44	5ft Dimmable 50W
NET-41-11-46	5ft Dim Emg 50W
NET-41-11-50	6ft Standard 41W/60W
NET-41-11-52	6ft Emergency 41W/60W
NET-41-11-54	6ft Dimmable 60W
NET-41-11-56	6ft Dim Emg 60W

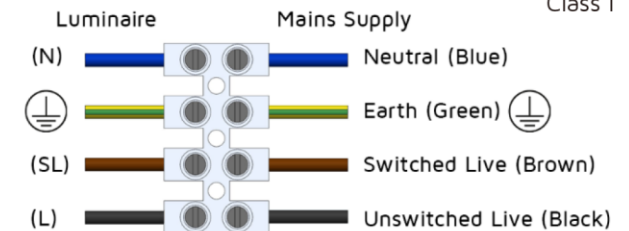
SUPPLY/EARTH CLASS

220-240V AC 50/60 Hz

Fig.1 Mains Input Termination



Class I



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.

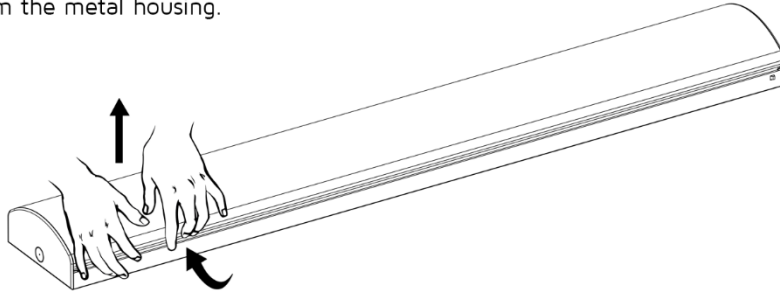


Replaceable (LED only) light source by a professional

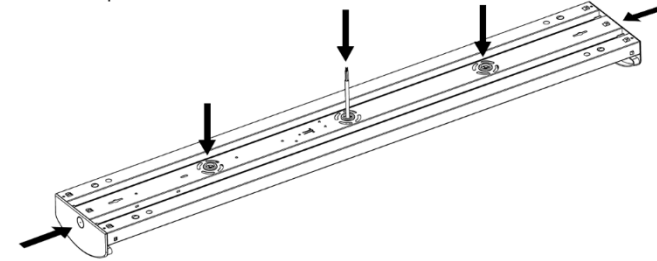


Replaceable control gear by professional

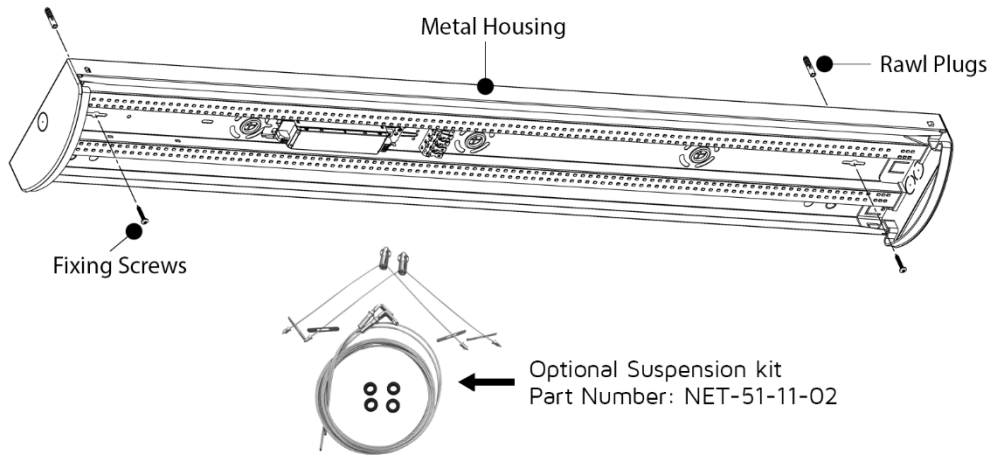
Step 1: Carefully remove the Linear from the packaging. Press the diffuser (close to the end cap) to release it from the metal housing.



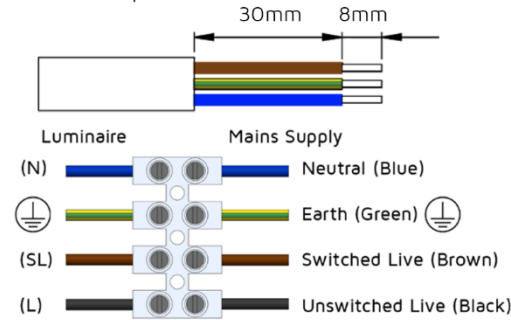
Step 2: Select a cable entry point that best suits the application. For side cable entry, drill out the 20mm cable gland position, then secure the cable with a Cable Gland. For rear cable entry, select one of the three pre-cut cable access holes.



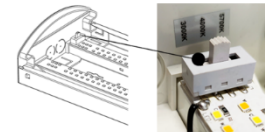
Step 3: Attach the Linear to the ceiling by means of the surface mount holes on the Metal Housing and the included fixing screws. A suspension kit is available if required.



Step 4: Connect the input wires according to the wiring diagram below. Then select the desired LED colour temperature.



Tri-colour temperature switch:



Dual Wattage LED Driver Dip Switch Settings:

4ft Trinity Surface Linear

Driver: LC 38W/400-700mA flex C Ip SNC4

ON OFF
1 2 23W/500mA = Switch 1 = On
Switch 2 = Off

ON OFF
1 2 32W/700mA = Switch 1 = On
Switch 2 = On

5ft Trinity Surface Linear

Driver: LC 57W/70-1050mA flex C Ip SNC4

ON OFF
1 2 34W/700mA = Switch 1 = Off
Switch 2 = Off

ON OFF
1 2 50W/1050mA = Switch 1 = On
Switch 2 = On

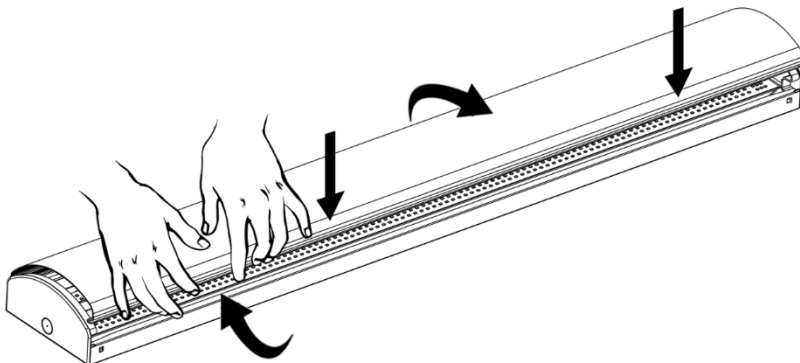
6ft Trinity Surface Linear

Driver: LC 57W/70-1050mA flex C Ip SNC4

ON OFF
1 2 41W/700mA = Switch 1 = Off
Switch 2 = Off

ON OFF
1 2 60W/1050mA = Switch 1 = On
Switch 2 = On

Step 5: Refit the Diffuser cover by inserting one long edge into the endcap channels, then insert the opposite edge. The Diffuser needs to be pressed inwards to engage the securing channel.



Step 6: Dimmable & Dimmable Emergency wiring.



For Dimmable and Dimmable Emergency, please refer to the above QR Code for wiring instructions.

Ensure that the Emergency Test Record is completed.

NET LED LIGHTING

Part Number:		Installation Date:		
Luminaire Ref/Location		In case of difficulty, contact the Installation Engineers: Tel: _____		
Full Recharge Time 24 Hours		Duration 3 Hours		Lamp Type - LED
ROUTINE TEST RECORD				
Year 1	Year 2	Year 3	Year 4	Year 5
Monthly Test	Signed	Date	Signed	Date
Functional				
Functional				
Functional				
One Hour				
Functional				
Functional				
Functional				
Three Hour				

Example of Emergency Test Report

Safety Information:

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

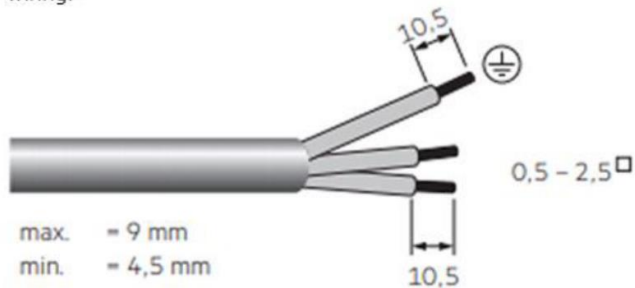
Wiring the plug-in terminal:

- 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
Buckingham 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
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:

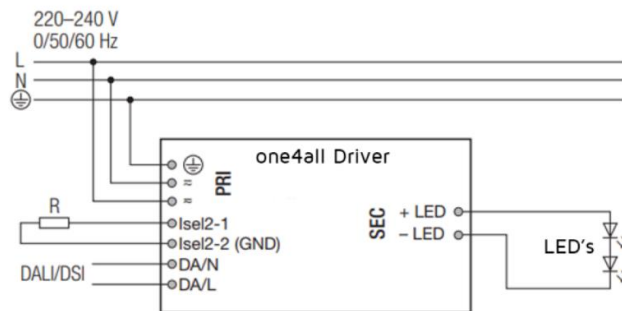
DALI (Digital Addressable Lighting Interface) is an interface protocol for digital communication between electronic lighting equipment.

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.

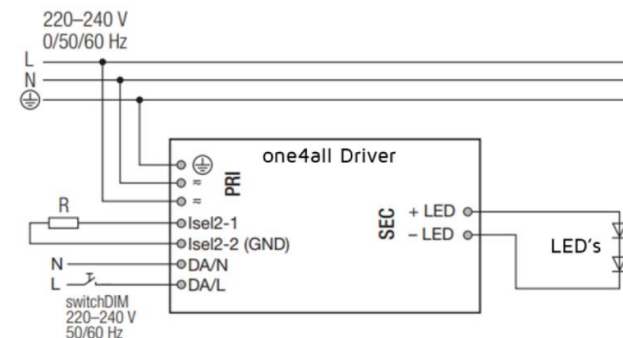
When power returns, the LED is automatically restored to its previous operating state and dimmed to the last value.

⚠ 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.



SELF TEST EMERGENCY INSPECTION GUIDE

About:

Initial Test

Connect LED load, emergency module, battery and LED driver, then connect mains supply, this emergency conversion module will automatically start to do an initial test. If the components are not functioning correctly, the LED indicator will flash RED. If everything is correct, then it will go into charge mode.

Functional Test

Functional tests are carried out for 10 seconds automatically every 30 calendar days.

Duration Test

Emergency conversion module will automatically make a full duration test every 180 calendar days to check capacity of battery.







Note

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

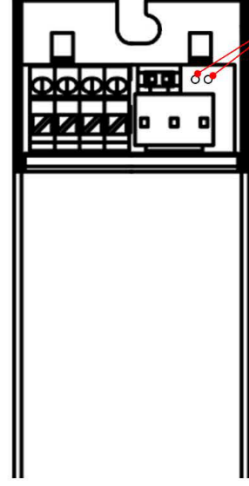
Timer reset functionality

The timer for function and duration test can be set to a particular time of the day by cycling the un-switched line supply 3 times within 1 minute.

LED STATUS INDICATOR

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

Reset instructions:



Reset points

If faulty status is triggered, the LED indicator will flash RED. To reset the emergency kit, touch the two reset points for 5-10seconds with a piece of wire, or a short-circuit needle.

