

### 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.

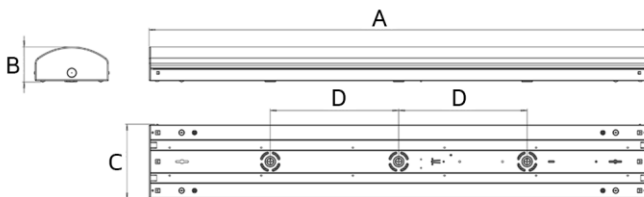
> Before installing a Trinity LED Linear or doing any maintenance, ensure power supply is turned off at the circuit breaker or fuse box.

> 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

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### 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

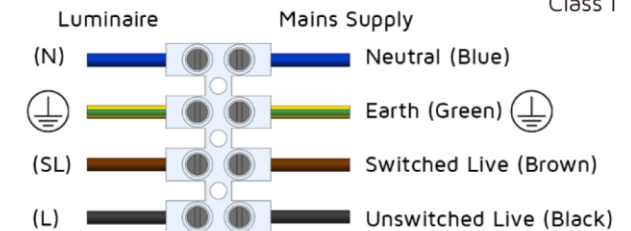
### SUPPLY/EARTH CLASS

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.

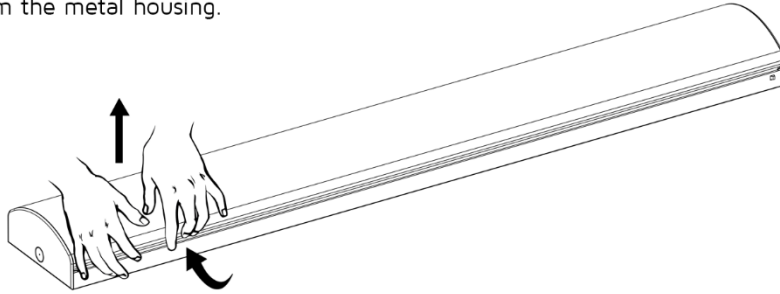


Replaceable (LED only) light source by a professional

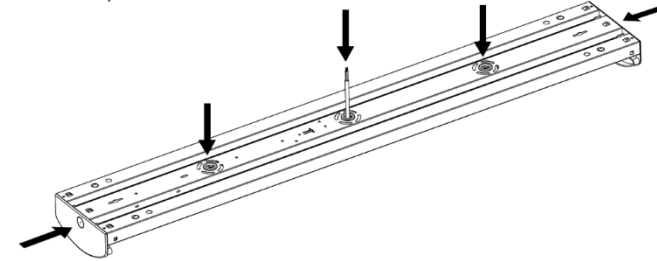


Replaceable control gear by professional

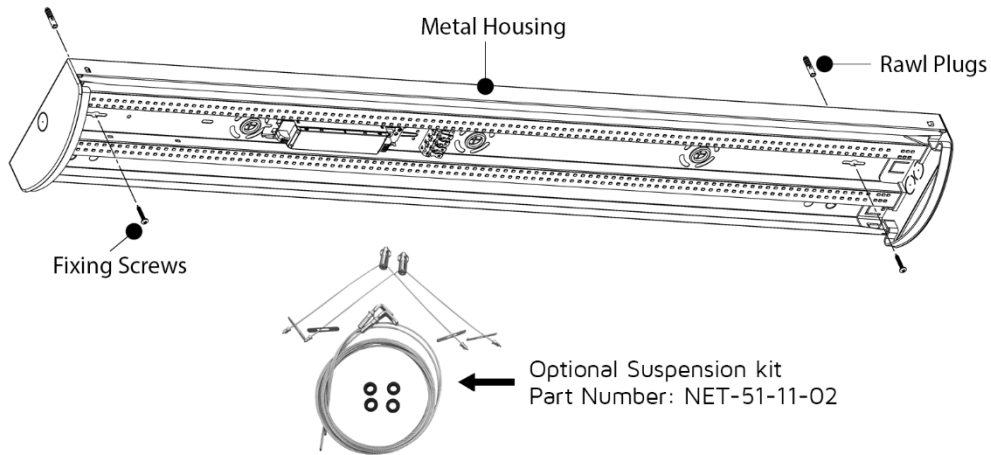
**Step 1:** Carefully remove the Linear from the packaging. Press the diffuser (close to the end cap) to release it from the metal housing.



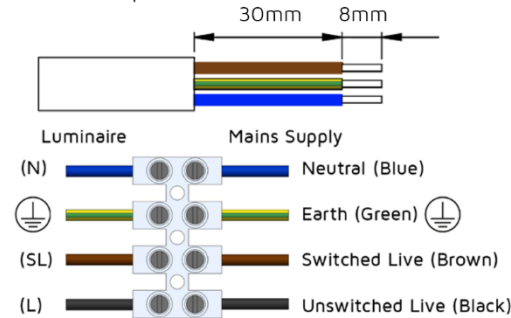
**Step 2:** Select a cable entry point that best suits the application. For side cable entry, drill out the 20mm cable gland position, then secure the cable with a Cable Gland. For rear cable entry, select one of the three pre-cut cable access holes.



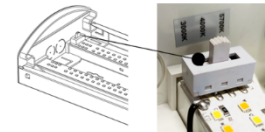
**Step 3:** Attach the Linear to the ceiling by means of the surface mount holes on the Metal Housing and the included fixing screws. A suspension kit is available if required.



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

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

**5ft Trinity Surface Linear**

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

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

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

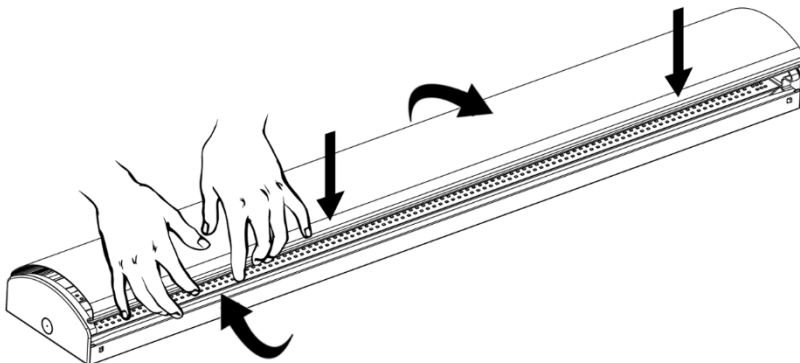
**6ft Trinity Surface Linear**

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

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

ON  ON  
1 2 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.



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	Signed
Functional					
Functional					
Functional					
One Hour					
Functional					
Functional					
Functional					
Three Hour					

Example of Emergency Test Report

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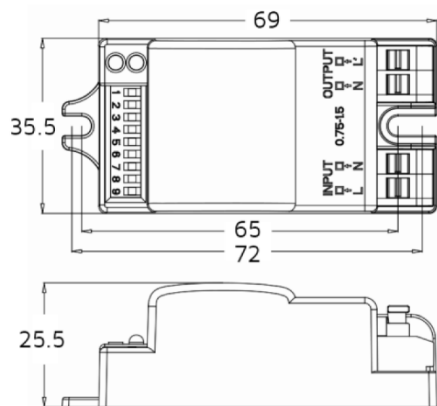
> Before installing the Motion Sensor or doing any maintenance, ensure power supply is turned off at the circuit breaker or fuse box.

> 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



All units are in mm

### Important Warranty Information

The Motion Sensor 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 sensor housing along with the original purchase invoice.



Certificate No. FS 590684



Certificate No. EMS 590685

NET LED Lighting  
Buckingway Business Park  
300 Anderson Road  
Cambridge  
CB24 4UQ  
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MOTION SENSOR  
INSTALLATION  
GUIDE

### MOTION SENSOR (INTERNAL) NET-42-43-02

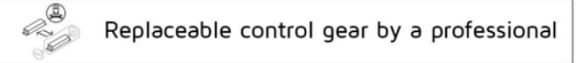
#### KEY DATA

Input Voltage AC	220-240Vac
Power Frequency	50/60Hz
Maximum Load	400W-inductive or 800W-resistive
Maximum Detection Distance	Max. (D x H): 12m x 6m
IP Rating	IP20
Operating Temp.	-20°C ~ 60°C
Daylight Sensor	2lux / 10lux / 25lux / 50lux / Disable
Detection Area	10% / 25% / 50% / 75% / 100%
Hold Time	5s / 30s / 90s / 3min / 20min / 30min
Manufacturer	Merrytek



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. Please retain this leaflet for future reference.

**Motion Sensor Installation:**



**Settings**

Detection area, hold time and daylight sensor can be set using DIP switches on the sensor. Note that reducing the detection area will reduce the sensitivity.

**1. Detection area**

- I: up to 6m
- II: up to 4m
- III: up to 3m
- IV: up to 2m
- V: up to 1m

ON ↑ [Slider]		1	2	3	
	I	ON	ON	ON	100%
	II	-	ON	ON	75%
	III	ON	-	ON	50%
	IV	-	-	ON	25%
	V	-	-	-	10%

**2. Hold time**

Refers to the time period the lamp remains at 100% illumination after no motion detected.

- I. 5s
- II. 30s
- III. 90s
- IV: 3min
- V: 20min
- VI: 30min

ON ↑ [Slider]		4	5	6	
	I	ON	ON	ON	5s
	II	-	ON	ON	30s
	III	ON	-	ON	90s
	IV	-	-	ON	3min
	V	ON	ON	-	20min
	VI	-	-	-	30min

**3. Daylight sensor**

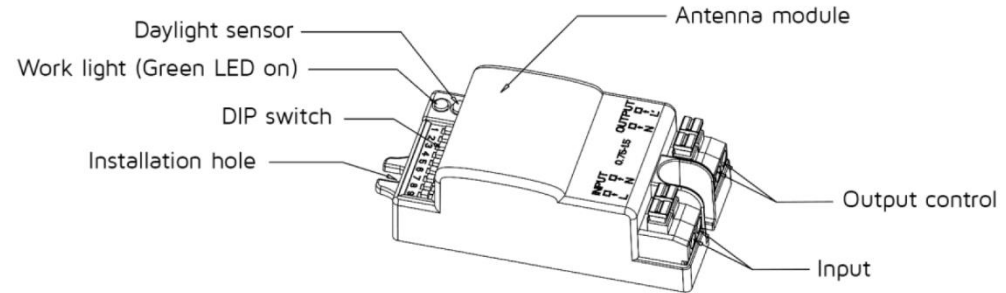
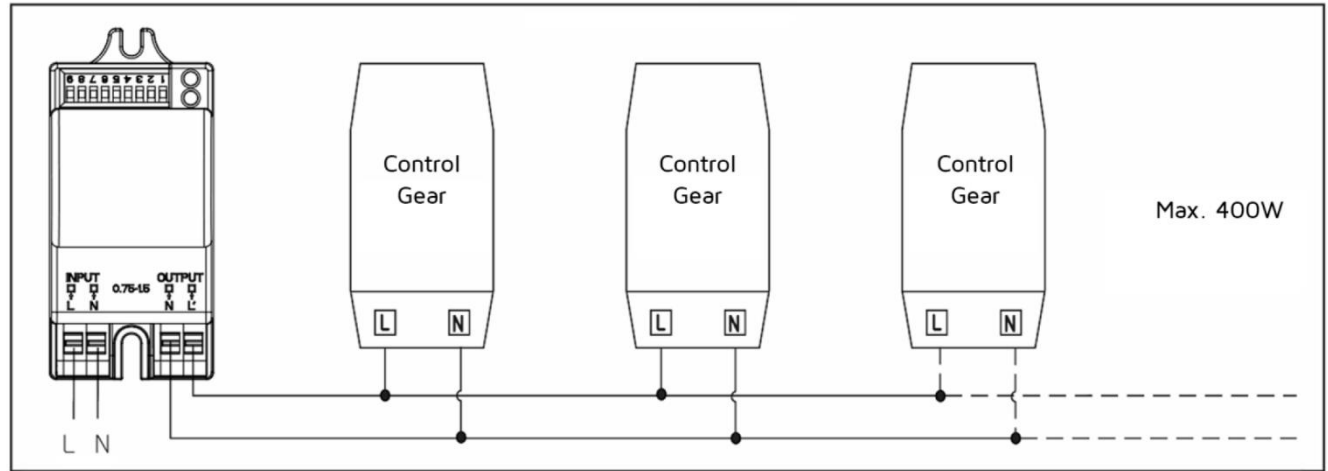
The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold. The settings are as follows:

- I. 2lux, darkness operation only
- II. 10lux, darkness operation only
- III. 25lux, twilight operation
- IV: 50lux, twilight operation
- V: Disable\*

ON ↑ [Slider]		7	8	9	
	I	ON	ON	ON	2lux
	II	ON	ON	-	10lux
	III	-	ON	-	25lux
	IV	ON	-	-	50lux
	V	-	-	-	Disable

\*When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of the ambient light levels.

**Wiring Diagram**



**FAQ**

Question	Cause	Solution
The load will not illuminate.	Incorrect daylight sensor setting selected.	Adjust setting
	Load has failed.	Replace load.
	Power is switched off.	Switch on.
The load is permanently illuminated.	Continuous movement in the detection area.	Check detection area setting.
	The lamp (containing sensor) is installed in an area too close to reflective surfaces, i.e metal, glass or concrete walls.	1, Make sure installation area is suitable with at least 30cm space between lamp and surrounding reflective surfaces. 2, Reduce sensitivity (detection area).
The load will not illuminate despite movement.	Speed of moving object is not in the range of 0.5-3m/s or the detection radius is too small.	Check detection area setting.

## 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.

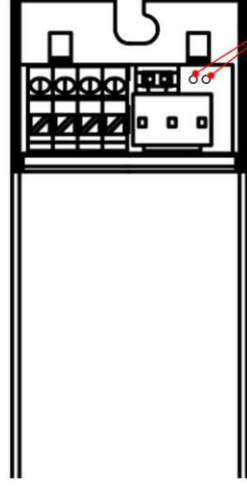
#### Timer reset functionality

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.

