

### Safety Information

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

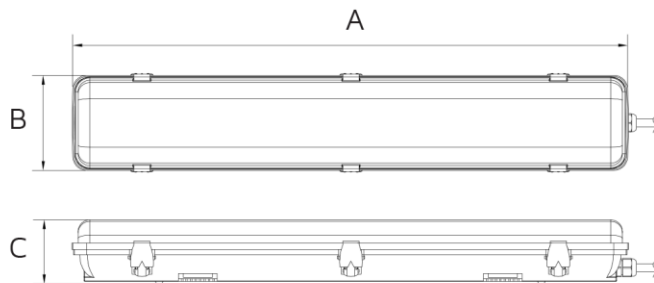
> Before installing a LED NCF Luminaire or doing any maintenance, ensure power supply is turned off at the circuit breaker or fuse box.

> 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	A	B	C
2ft	600	100	85
4ft	1200	100	85
5ft	1500	100	85
6ft	1800	100	85

### Important Warranty Information

The LED NCF Luminaire 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



### LED NCF LUMINAIRE INSTALLATION GUIDE

Part Number	Description
NET-41-11-01	Tri-colour 2ft 14/20W - Standard
NET-41-12-01	Tri-colour 2ft 14/20W - Emergency
NET-41-11-03	Tri-colour 4ft 24/40W - Standard
NET-41-12-03	Tri-colour 4ft 24/40W - Emergency
NET-41-12-04	Tri-colour 4ft 24/40W - Self Test EMG
NET-41-11-20	Tri-colour 4ft 40W - Dimmable
NET-41-12-09	Tri-colour 4ft 40W - Dimmable EMG
NET-41-11-05	Tri-colour 5ft 48/60W - Standard
NET-41-12-05	Tri-colour 5ft 48/60W - Emergency
NET-41-12-06	Tri-colour 5ft 48/60W - Self Test EMG
NET-41-11-12	Tri-colour 5ft 60W - Dimmable
NET-41-12-12	Tri-colour 5ft 60W - Dimmable EMG
NET-41-11-11	Tri-colour 6ft 62/80W - Standard
NET-41-12-11	Tri-colour 6ft 62/80W - Emergency
NET-41-12-13	Tri-colour 6ft 62/80W - Self Test EMG
NET-41-11-21	Tri-colour 6ft 75W - Dimmable
NET-41-12-15	Tri-colour 6ft 75W - Dimmable EMG

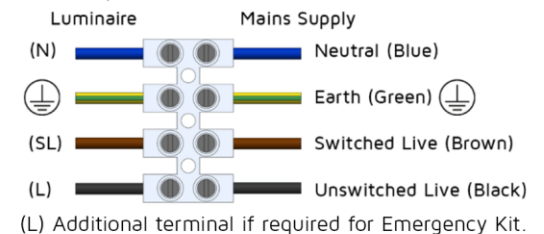
### SUPPLY/EARTH CLASS

220-240V AC 50/60 Hz



Class I

Fig.1 Mains Input Termination



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

LED NCF Luminaire Installation:

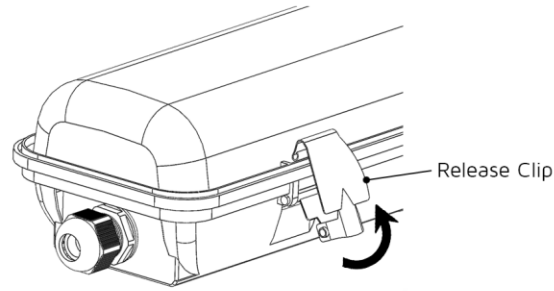


Replaceable light source by end-user

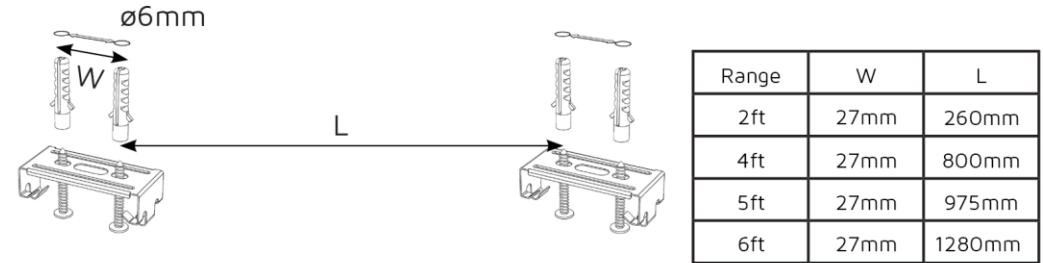


Replaceable control gear by professional

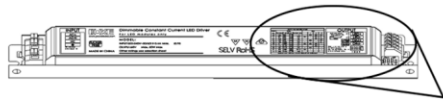
**Step 1:** Carefully remove the fitting from the packaging. Release the stainless steel clips to remove the diffuser. Access the accessories bag inside the housing.



**Step 2:** Fix the supplied metal clips on a mounting surface as per the illustration below.



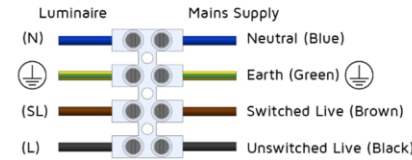
**Step 3:** Use the driver dip switches to select the required wattage according to the table below.



		Dip Switch			
		1	2	3	4
NET-41-11-01 (2FT)	14W	OFF	ON	ON	ON
	20W	OFF	ON	OFF	ON
NET-41-11-03 (4FT)	24W	ON	OFF	ON	ON
	40W	OFF	OFF	OFF	OFF
NET-41-11-05 (5FT)	48W	ON	OFF	ON	ON
	60W	OFF	ON	OFF	OFF
NET-41-11-11 (6FT)	62W	ON	OFF	ON	ON
	80W	OFF	OFF	OFF	OFF

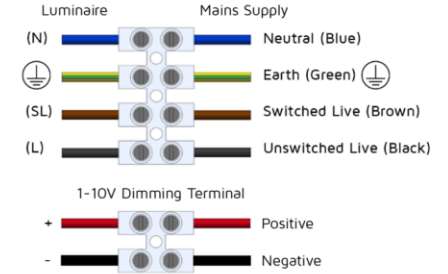
**Step 4:** Wire the mains supply through the cable gland to the terminal block inside the housing

Standard NCF wiring diagram

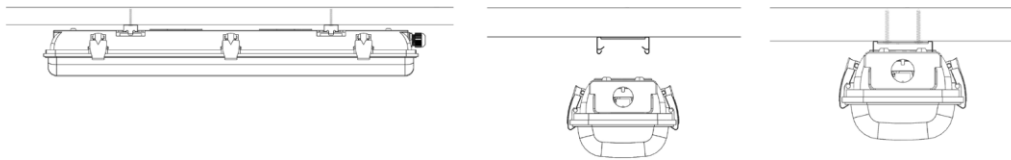


(L) Additional terminal if required for Emergency Kit.

Dimmable NCF wiring diagram



**Step 5:** Refit the diffuser and lock the stainless steel clips. Align the luminaire with the mounting clips and push it into place. Turn on mains supply to test luminaire is working properly.



View A (metal clip and the luminaire body aligned)

View B (luminaire fixed in place)

**Step 6:** If you purchased an Emergency variant, ensure that the Emergency Test Record is completed when required.



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	Date	Signed	Date	Signed	Date
Functional										
Functional										
Functional										
Functional										
One Hour										
Functional										
Functional										
Functional										
Functional										
Three Hour										

Emergency Test Record example.

### Safety Information:

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

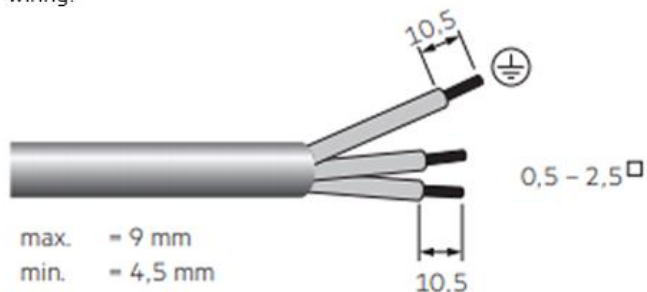
### Wiring the plug-in terminal:

- 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 2.5mm<sup>2</sup> 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  
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:**

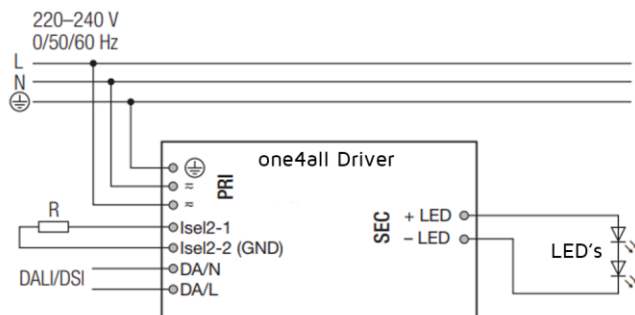
DALI (Digital Addressable Lighting Interface) is an interface protocol for digital communication between electronic lighting equipment.

#### **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 1.5mm<sup>2</sup>)



### 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.

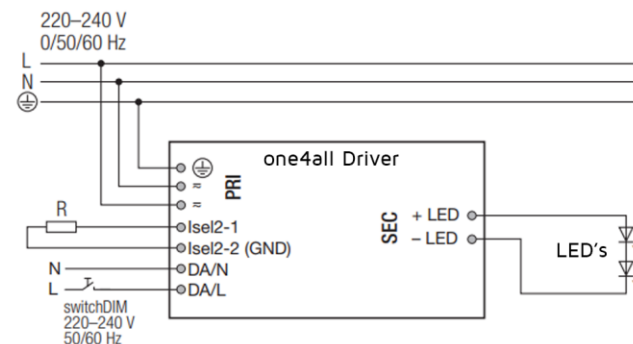
When power returns, the LED is automatically restored to its previous operating state and dimmed to the last value.

#### **⚠ Caution!**

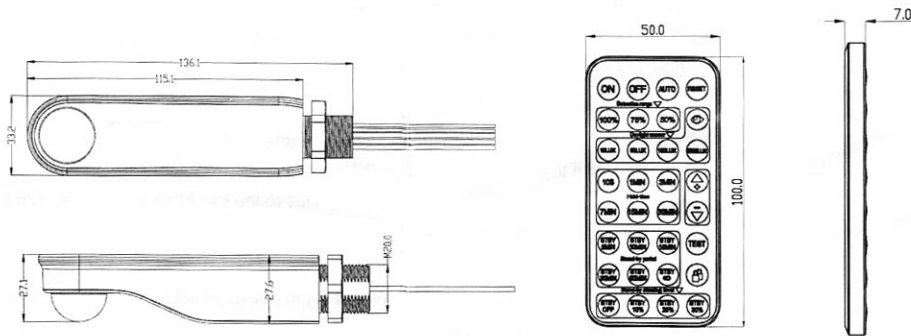
Glow switches are not approved for controlling switchDIM. Glow switches may cause the LED Driver to spontaneously switch on or off or make sudden changes in the dimming value.

#### **⚠ Caution!**

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



# SSEN/BP/DIM/WH



## Instructions for SSEN/BP/DIM/WH infrared motion sensor!

This luminaire mounted PIR sensor utilizes a good sensitivity detector and integrated circuit for energy-saving, safety and practical functionality. It utilizes infrared technology to detect movement of the human body and will switch on the load once someone enters the detection field. It has an inbuilt photocell to detect between day and nighttime operation.

### SPECIFICATION:

Power Source: 220-240V/AC	Detection Range: 360°
Power Frequency: 50/60Hz	Detection Range: 50%, 75%, 100% (selectable)
Daylight sensor: <3-2000LUX (adjustable)	Detection Distance: 10m max(<24°C)
Hold Time: Min.10sec±3sec	Working Temperature: -20~+40°C
Max.30min±2min	Working Humidity: <93%RH
Rated Load: Max.1200W	Installation Height: 2-6m
500W	Detection Moving Speed: 0.6-1.5m/s
Power Consumption: approx 0.5W	Automatic Lighting Range: 10LUX-300LUX
Stand-by Period: 5min, 10min, 15min, 30min	Stand-by Dimming Level: OFF, 10%, 20%, 30% (selectable)
60min, +∞(selectable)	

### FUNCTION:

- Can identify day and night: The installer can adjust the switching point at different ambient light levels, adjustable between 3LUX and 2000LUX.
- Time-Delay is extended continually: During periods of continued occupancy, the sensor will restart the time delay with each detection of movement.



Good sensitivity



Poor sensitivity

### INSTALLATION ADVICE:

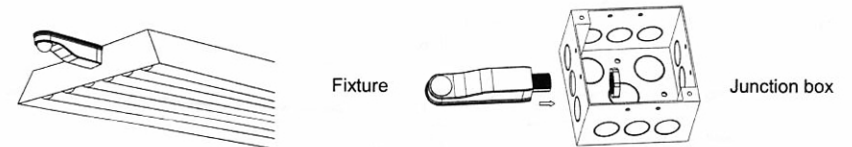
As the detector responds to changes in temperature, avoid the following situations:

- Avoid pointing the detector towards objects with highly reflective surfaces, such as mirrors etc.
- Avoid mounting the detector near heat sources, such as heating vents, air conditioning units, lights etc.
- Avoid pointing the detector towards objects that may move in the wind, such as curtains, tall plants etc.



INSTALLATION: (see the diagram)

- Switch off the power.
- Connect the power and the load to sensor as per the wiring diagram.
- Switch on the power and test the functionality.

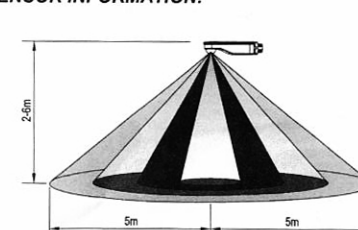


### Battery replacement

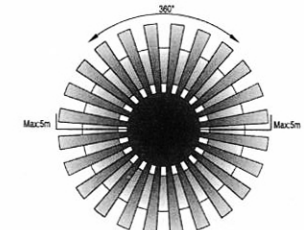
- Pull out the battery holder
- Put in a new battery (3V)



### SENSOR INFORMATION:

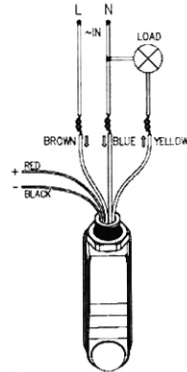


Height of installation: 2-6m



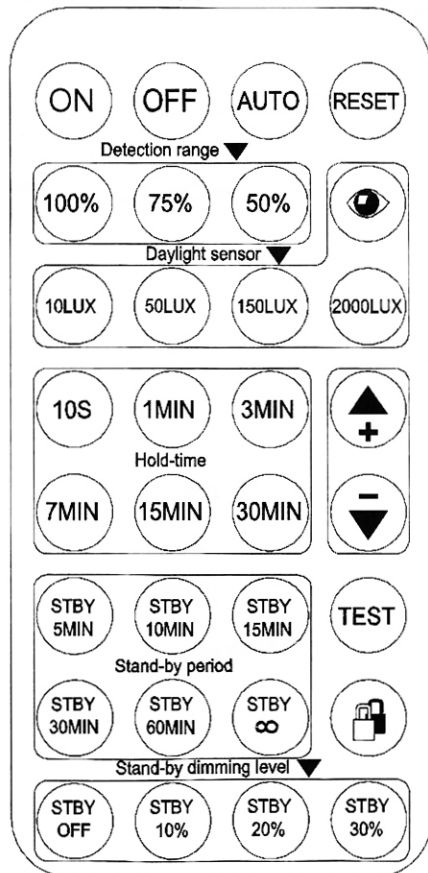
Detection Distance: Max.10m

**WIRING DIAGRAM** (See the right image)



It requires a remote control for setting all parameters! About the details kindly see in “IR REMOTE CONTROLLER” as below.

**IR REMOTE CONTROLLER**



- **ON** Load override ON (After 8hours, return to AUTO mode)
- **OFF** Load override OFF (After 8hours, return to AUTO mode)
- **AUTO** Set load to operate depending on motion
- **RESET** Sensor works according to dial setting
- Automatically detect the actual ambient light level and the sensor switches according to this LUX value stored, range 0-2000LUX
- Lock & unlock remote controller buttons
- **TEST** Test mode
- **100%** **75%** **50%** Adjust detection range
- **10LUX** **50LUX** **150LUX** **2000LUX** Adjust LUX value from 10-2000LUX
- **10S** **1MIN** **3MIN** **7MIN** **15MIN** **30MIN** Set on time
- **STBY 5MIN** **STBY 10MIN** **STBY 15MIN** **STBY 30MIN** **STBY 60MIN** **STBY ∞** **STBY OFF** Set hold time of load in dimming level
- **STBY 10%** **STBY 20%** **STBY 30%** Set load's dimming level or switch off load when there is no motion detection
- Manually dim level from 100% to 10%

**TROUBLESHOOTING:**

- The load does not switch on:
  - a. Please check if the wiring of power and load is correct.
  - b. Please check if the load is operational.
  - c. Please check if the light level is set to the correct level.
- The sensitivity is poor:
  - a. Please check if there has any hindrance in front of the detector which may affect the signal.
  - b. Please check if the ambient temperature is too high.
  - c. Please check if the movement is in the detection field.
  - d. Please check if the installation height corresponds to the height showed in the instruction.
  - e. Please check if the moving orientation is correct.
- The sensor does not turn off the load automatically:
  - a. Please check if there is continual movement in the detection field.
  - b. Please check if the time delay is set to the longest duration.
  - c. Please check if the wiring corresponds to the instruction.

