

Installation & Wiring Instructions

LED3/KIT Standalone Emergency LED



PLEASE READ THESE INSTRUCTIONS BEFORE COMMENCING INSTALLATION & LEAVE WITH END USER

Description:

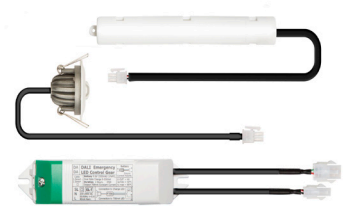
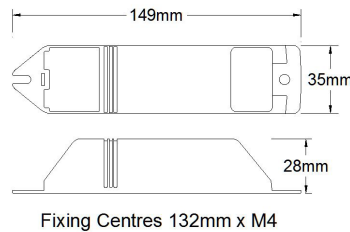
The LED3/KIT is a standalone 3 hour DALI self-test emergency driver with a choice of dedicated LED heads which are suitable for open areas or escape routes. The LED is driven at 700mA which provides up to 288 lumen in emergency.

The batteries used with this kit are lithium iron phosphate (LiFePO4) which not only last double the life of traditional emergency lighting batteries, but consume far less power. If not connected to a DALI system, this product will revert to standalone self-test and carry out its commissioning and testing regime in accordance with the British Standards. The battery is fitted with a PCM to protect the supply voltage against reverse polarity.

DALI 1 device, registered with DiiA.

Specification:

Input Voltage	230-240 Volts AC 50/60 Hz
Power (Standby Non-Maintained) *	8mA - $\lambda = 0.2$
Power (Charging Maintained) *	36mA - $\lambda = 0.6$
Ambient Temp.	0°C to + 50°C
Max Case Temperature	60°C
Max Battery Temperature	55°C
Mains Input Terminal	0.5mm - 1.5mm
Battery Fuse	Internal
Battery Discharge Current	900mA
Discharge Voltage Limit	2.5V
Ingress Protection	IP20
Battery Pack	3.2V 4.5Ah LiFePO4
Charge Current	Dual Rate 0-225mA
Recharge Period	24 Hours
Module Size (L x W x H)	164mm x 35mm x 28mm
Module Fixing Centres	132mm M4
Battery Size (L x W x H)	220mm x 32mm x 28mm
Module Weight	0.1Kg
Battery Weight	0.15Kg
LED Weight	0.06Kg
Aperture	43mm
Bus Current Consumption	1.46mA



Lumen and Optic Angle

LED3/KIT/NL
LED3/KIT/OA
LED3/KIT/CO

115° Without Lens 237lumen
135° Open Area Optic 268 lumen
115° x 155° Corridor Optic 266 lumen

Important

It is recommended that the product is installed by a competent person ensuring the installation complies with the necessary standards. Liteplan accept no responsibility for injury, damage or loss, which may arise as a result of incorrect installation, operation or maintenance.

The control gear requires an unswitched supply for charging the battery and a switched supply for maintained operation.

ISOLATE MAINS SUPPLIES AND DISCONNECT THE BATTERY BEFORE INSTALLATION OR MAINTENANCE.

Installation:

1. Cut a 43mm diameter hole in the ceiling tile.
2. Connect the LED to the main assembly via the 4 way connector.
3. Connect the 2 core mains input cable as follows - Black Unswitched (Battery Charging) 240V and Blue to Neutral.
4. Only connect the battery when the Un-switched supply is fully assured. Even though these units are protected with a Deep Discharge Protection Circuit, the batteries can be damaged by being left in an uncharged state for prolonged periods. Ensure correct polarity.
5. When the supply is present and the battery connected, check that the green LED indicator is illuminated showing that the supply is healthy and the batteries are charging.
6. Pass the whole assembly through the 43mm aperture and clip the LED housing into the ceiling ensuring that the IP gasket is installed behind the bezel of the LED head. .

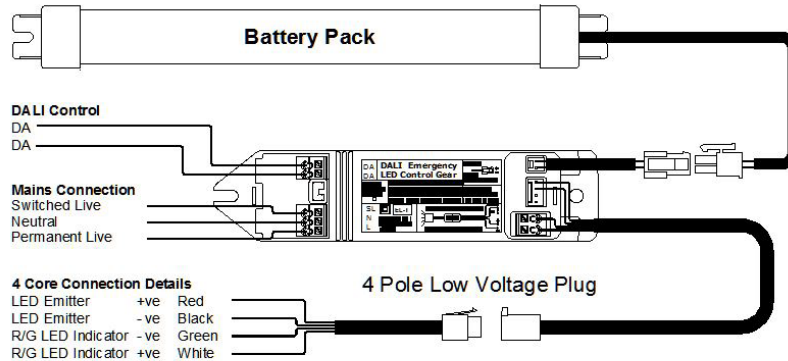
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Typical Wiring Diagram



Device Status Indicator:

Green Solid		Battery connected & charging	Red Solid		Emergency LED Fault
Green Fast Flash	0.1 sec On, 0.1 sec Off	Function Test in progress	Red Fast Flash	0.1 sec On, 0.1 sec Off	LED Driver Fault
Green Slow Flash	1.0 sec On, 1.0 sec Off	Duration Test in progress	Red Slow Flash	1.0 sec On, 1.0 sec Off	Battery Fault
Green Very Slow Flash	4.0 sec On, 1.0 sec Off	Automatic Duration Test Passed in last 7 days	Red & Green Off		In Emergency Mode

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										
Functional										
Functional										
Functional										
Functional										
Functional										
Functional										
Three Hour										

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