

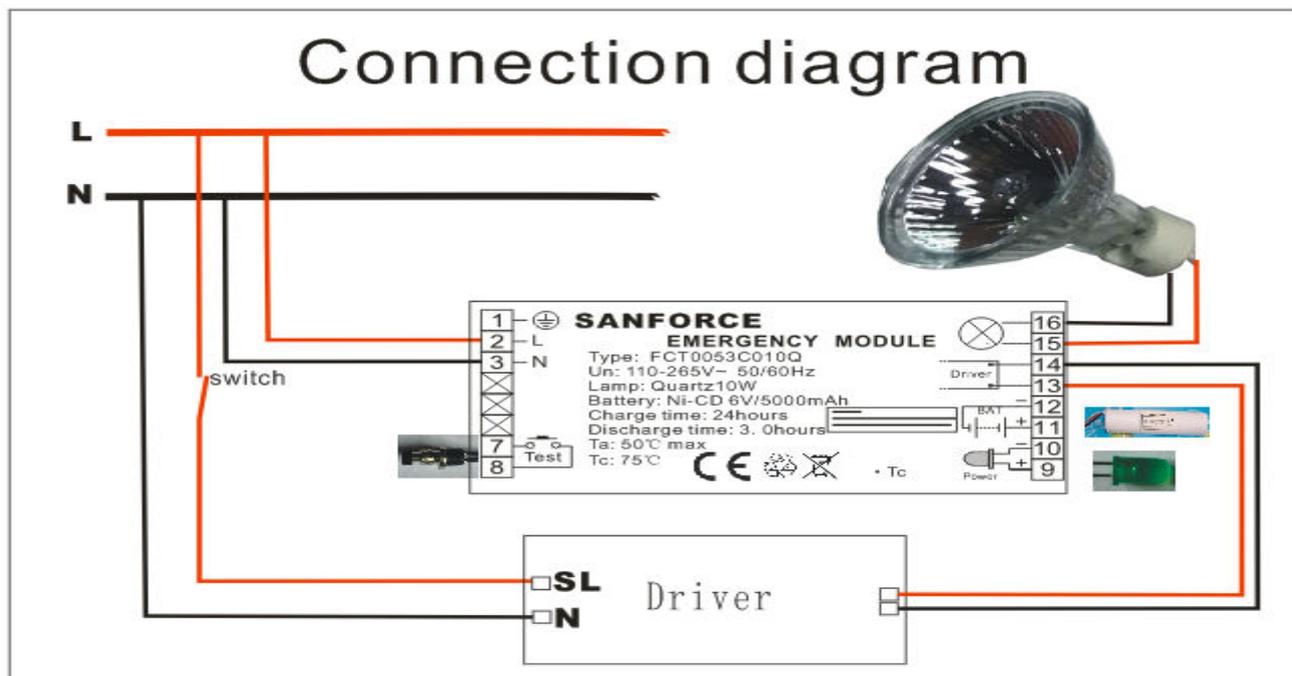
Instruction Manual of Sanforce Emergency Module for Quartz lamp

Description:

This emergency lighting module is designed to convert for constant voltage output, ideal choice for converting 6V and 12V constant voltage of Halogen or LED strip light from 10W to 50W.

A conversion module for use only in emergency lighting applications consisting of a battery pack with over temperature and short circuit protection, change-over circuit, DC/AC inverter. Each module has basic insulation between the supply and battery circuit and incorporates deep discharge protection circuitry to protect the batteries.

Typical Wiring diagram



Specifications of Drawing, Schedule and Symbols:

L = “live”wire

N= “Neutral” wire sometimes called “nil” or “0”

switch = a mechanical device that connects or interrupts a “life”wire to the driver.

Driver is an electronic device that drives the Quartz lighting fixture with a constant current.

SL is switched Life wire connection on the driver

N is the Neutral connection on the Inverter and driver

Installation Instruction:

Connection 1 is used for safety ground (earth)

Connection 2 is used for connecting to the life wire of the buildings electricity network before the switch, sensing if the life wire is “alive”

Connection 3 is used for connecting the neutral of the buildings electricity network

Connection 4, 5 and 6 are not used.

Connection 7 and 8 have a testswitch (that is connected in series between the life connection (2) and the electronic circuit of the Sanforce module).

Connection 9 (positive +) and 10 (negative -) for connecting a control LED meaning Life electricity is connected and “alive”.

Connection 11 (positive +) and 12 (negative -) are used to connect the battery for emergency operation.

Connection 13 (positive +) and 14 (negative -) are used to connect the driver.

Connection 15 (positive +) and 16 (negative -) are used to connect the Quartz lamp to the current driver of the Sanforce module.

Operation

The module is capable of testing the performance of the emergency luminaire in accordance with IEC EN61347-2-7 & EN61347-2-13.

Commissioning Test

Connection of the mains supply will initiate commissioning where the battery will remain on charge for an

uninterrupted 24 hours. An interruption of the mains supply will impact the accuracy of emergency running duration.

Functional test

This test can be initiated manually by pressing the Testing Button.

Duration Test

A full rated duration test is carried out after charge the battery for 24 hours.

Note that start times of the tests are set based on the battery capacity.

Charge LED Indicator

A range of LEDs are available in red or green, diffused or clear high intensity, with or without a fitted rubber bezel or plastic clip and with various lead lengths.

Check the LED charge indicator is on with the mains present.

Note the production date of the battery.

Charge the battery completely when it is out of operation over 3 month.

Check the emergency module functionality for 3 month intervals.

Replace the battery every 3 years interval

Important

It is recommended that the module is installed by a competent person ensuring the installation complies with the necessary standards. Sanforce accept no responsibility for injury, damage or loss, which may arise as a result of incorrect installation, operation or maintenance. the conversion requires an unswitched supply for charging the battery and a switched supply for a maintained conversion.

Ensure that the finished converted luminaire operates within the module and battery temperature ratings.

Ensure that the original luminaire components are still operating within their temperature ratings.

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

High voltage could be present at the output terminals if the battery is not isolated.

Charge the battery more than 24 hours before using.

Warning



Avoid running the mains driver and Emergency pack without the load connected.

Failure to do so may result in damage to the Inverter and Driver.

- The polarity of the battery must be observed at all times. **Permanent damage to the module will occur if they are reversed.**