

Instruction Manual

Sanforce Emergency Module on Fluorescent Lamp

Description:

This emergency module delivers optimum performance for a diverse choice of fluorescent lamp types and wattages. The modules simplifies the selection of kit for T8/T5/PL lamps, the same module being suitable for magnetic or electric ballast.

A conversion module for use only in emergency lighting applications consisting of a battery pack, an inverter and ballast. Each module has basic insulation between the supply and battery circuit and incorporates deep discharge protection circuitry to protect the batteries.

Typical wiring diagram



Diagram 1

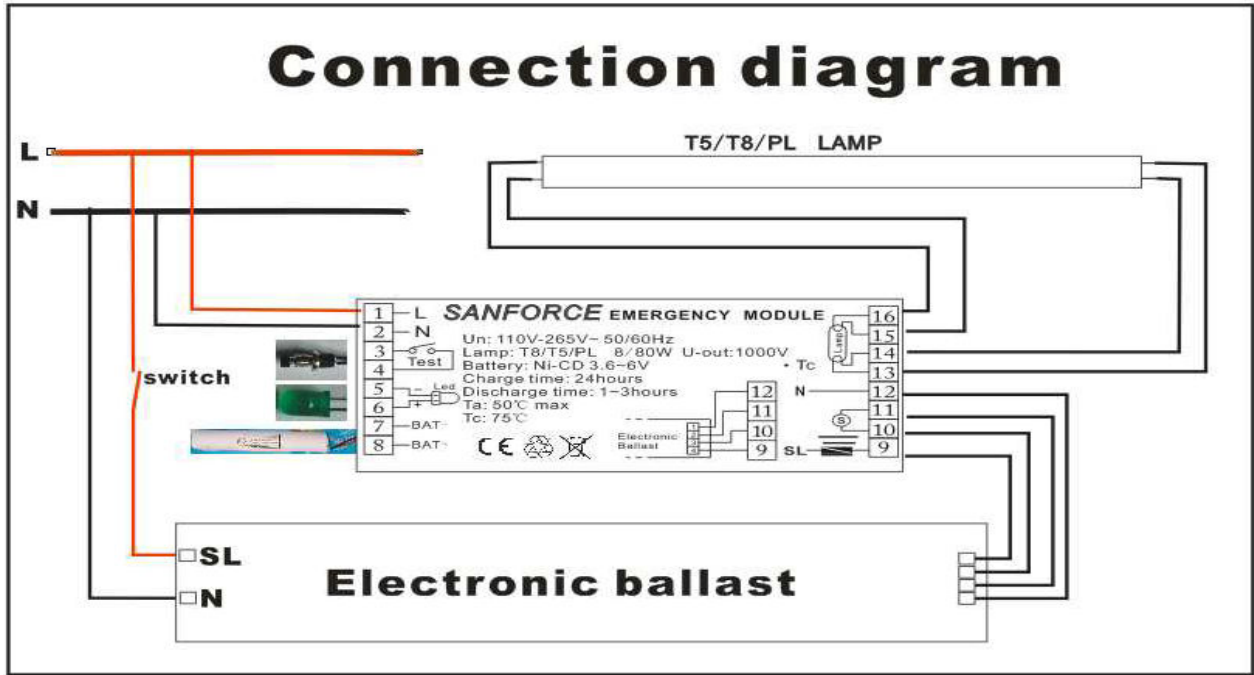
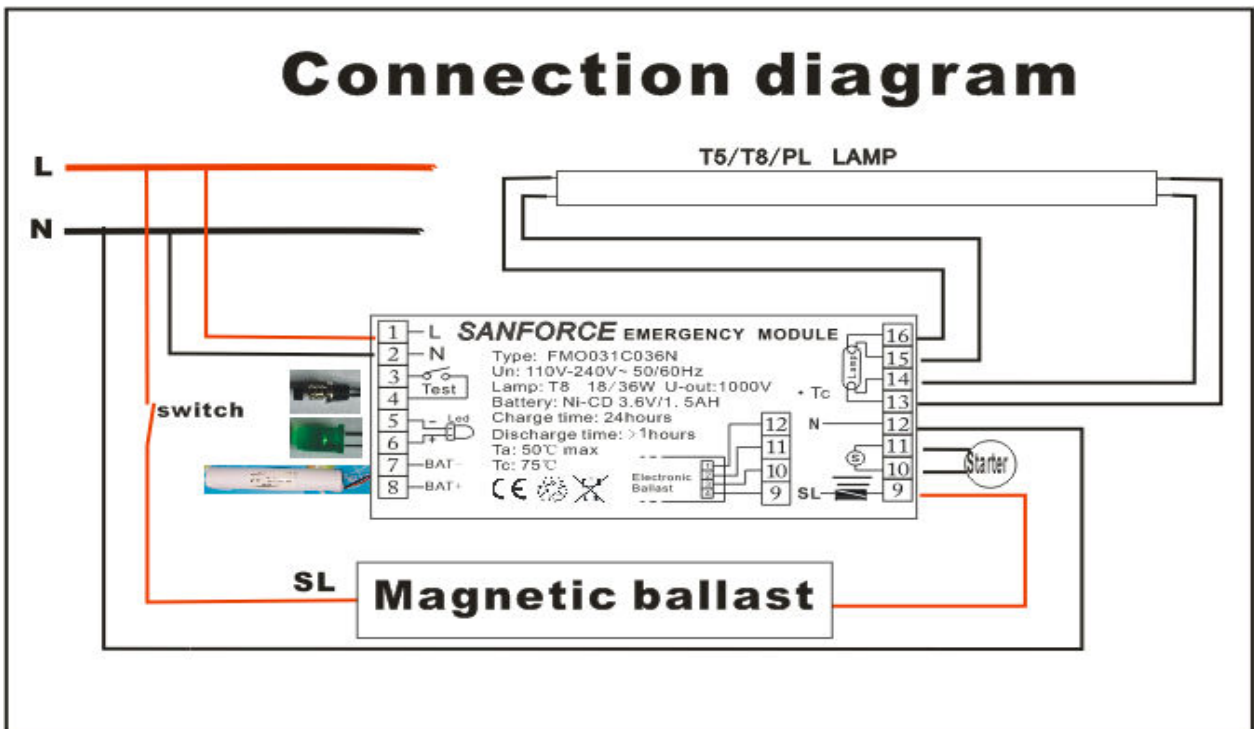


Diagram 2



Installation Instruction:

Connection 1 is used for connecting to the life wire of the buildings electricity network before the switch, sensing if the life wire is “alive”

Connection 2 is used for connecting the neutral of the buildings electricity network

Connection 3 , 4 have a test switch (that is connected in series between the life connection (2) and the electronic circuit of the Sanforce module).

Connection 5 (negative -) and 6 (positive +) for connecting a LED indicator meaning the power and battery is connected correctly and the inverter is working..

Connection 7 (negative -) and 8 (positive +) are used to connect the battery for emergency operation.

Connection 9 and 10 is connected to the output block of electronic ballast.

Connection 11 and 12 is connected to the other output block of electronic ballast.

For those using magnetic ballast(Diagram 2) , Connection 9 is connected to the output block of magnetic ballast which is wired to "L" of building electricity and SL.

Connection 10 and 11 is to connect Starter.

Connection 12 is connected to Neutral line.

Connection 13 ,14,15 and 16 are connected to the lamp.

Operation

The module is capable of testing the performance of the emergency luminaire in accordance with 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 and battery is being charged while inverter is working well.

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 lamp mains and Emergency pack without the load connected. Failure to do so may result in damage to the ballast or inverter.
- The polarity of the battery must be observed at all times. **Permanent damage to the module will occur if they are reversed.**