

CFN 246M FLUORESCENT EMERGENCY CONVERSION KIT

1. Description

CFN 246M is designed for inclusion in normal switch atart 18, single 36 and 58 watt fluorescent luminaires converting them to emergency luminaires. Where maintained operation is required the fitting must utilise a ballast having a watts loss (Hot) of 5 watts or less, other ballast types are unacceptable and render the warranty null and void. When the mains supply fails, the kit provides two hours illuminating from a fully charges battery following a 16 hour charge.

Designed for connection to 220 Volt, 50 Hz. Supply (via an unswitched active), the kit comes complete with an automatic charger, inverter and a sealed nickel cadmium battery. The inverter and battery powers a single fluorescent tube which is switched on automatically when the A.C. mains fail. Solid state circuitry switches off the lamp and isolates the battery when fully discharged and will not resist untill the mains supply is restored.

A light emitting diode is included which indicates a healthy mains supply and functioning charger.

A test switch to simulate a mains power failure is included for testing emergency operation when the mains supply is healthy.

A relay is included which allows operation of the luminaire in the maintained mode.

A switch link allows connection of an external switch enabling switching of the lamp when mains operated without disturbing the emergency facility. Power consumption: 10 V.A. maximum.

2. Installation

FOR NON-MAINTAINED OPERATION

- a) Fit power pack and battery pack into fitting.
- b) Connect tube as shown in diagram for non-maintained operation.
- c) Connect power pack to battery pack via polarity plug.
- d) Connect unswitched active and neutral to terminals A and N as shown in diagram.
- e) Write date unit installed on battery pack label in space provided.

FOR MAINTAINED OPERATION

- a) Fit power pack and battery pack into fitting keeping battery a furthest point from ballast, separated by at least 100 mm.
- b) Connect tube, ballast and starter as shown in diagram for maintained operation.
- c) Connect power pack to battery pack via polarity plug.
- d) Connect unswitched active and neutral to terminals A and N as shown in diagram.
- e) If external switching of mains operated lamp is required remove link from terminals marked S/W and connect a switch to these terminals.
(See circuit connection diagrams.)
- f) Write date unit installed on battery pack label in space provided.

3. Commissioning

- a) Switch on mains supply. L.E.D. Pilot Lamp (and mains operated fluorescent tube-maintained unit) will illuminate after a few seconds.
- b) Allow unit to charge for up to 30 minutes after which depress test switch to ensure correct emergency operation.
- c) Release test switch. Allow 16 hours to elapse after which time unit is ready for duty.

4. Maintenance

- a) Monthly – inspect to ensure function monitor is illuminated.
- b) Six monthly – isolate mains supply to unit or depress test switch to ensure correct emergency operation.
- c) Twelve monthly (or at the discretion of the enforcing authority) – Isolate mains supply to unit, allow unit to operate unit emergency lamp extinguishes. Should the unit provide less than 100 minutes illumination at between 10 C and 40 C ambient temperature following a 16 hours charge, the unit is faulty and steps should be taken to rectify the fault.

Clean all light-emitting/reflecting surfaces. Re-instate mains supply

NOTE: *The twelve monthly test should be undertaken whichever possible, at times of least risk (e.g. during daylight hours) This is because of the possibility of a failure of the normal lighting supply whilst the battery is discharged.*

DIMENSION : mm. (NTS) POWER PACK CFN246M & BATTERY

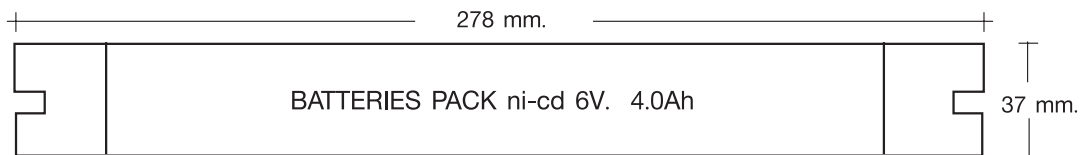
TOP VIEW



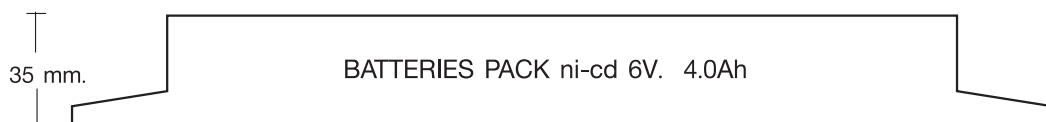
SIDE VIEW



TOP VIEW



SIDE VIEW

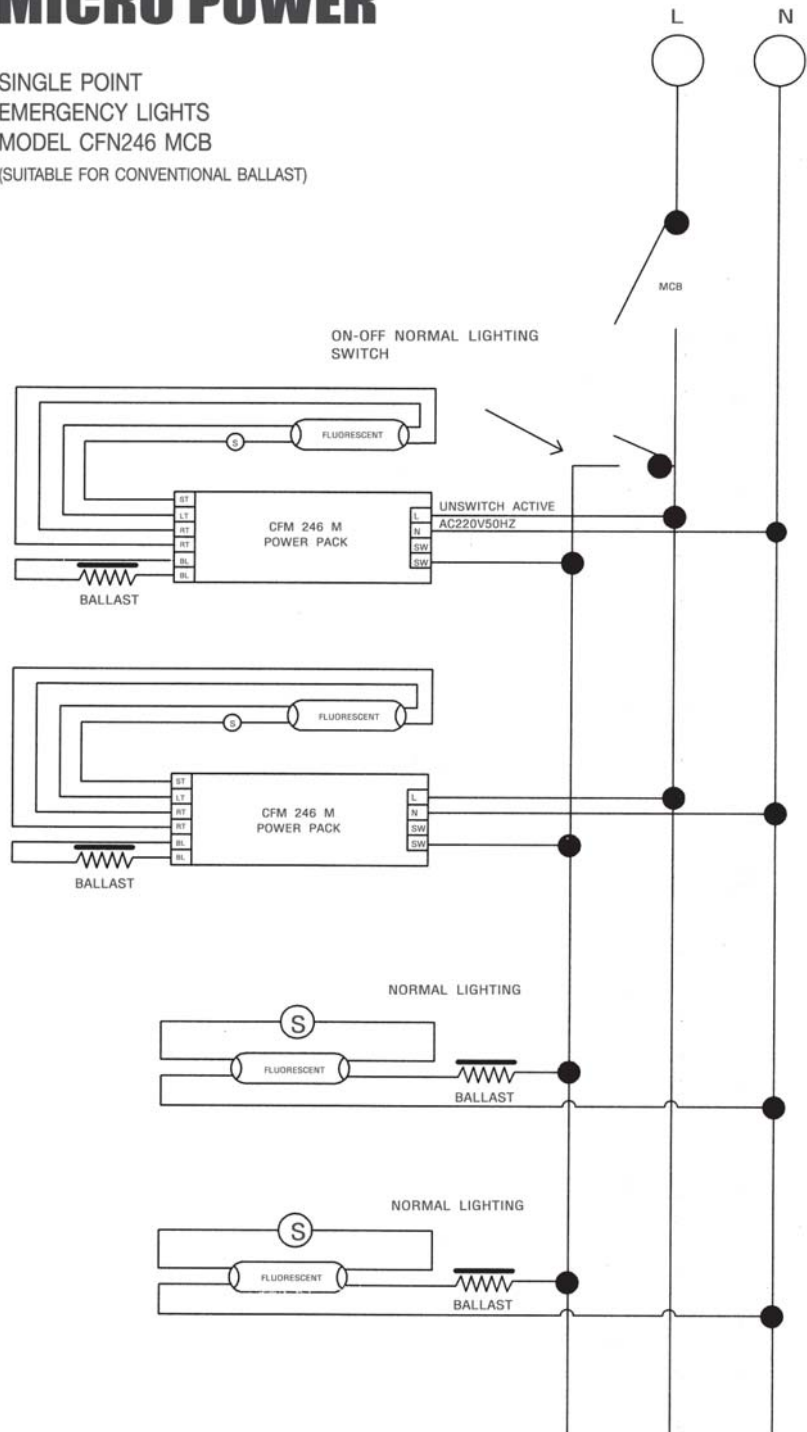


MICRO POWER

SINGLE POINT
EMERGENCY LIGHTS
MODEL CFN246 MCB
(SUITABLE FOR CONVENTIONAL BALLAST)

WIRING DIAGRAM FOR
POWER PACK CFN 246 MCB
POWER BY CONVENTIONAL BALLAST

INPUT: 220V50Hz
10VAMAX
LAMP: 40WATT



MICRO POWER

MODEL CFN 246 MEB
(SUITABLE FOR ELECTRONIC BALLAST)

WIRING DIAGRAM FOR
POWER PACK CFN 246M
POWERED BY ELECTRONIC BALLAST

