GENERAL INFORMATION

1) A qualified electrician, in accordance with IEE wiring regulations should carry out connection to mains wiring.
2) This unit must be EARTHED.
3) Ensure that the rated voltage and frequency requirements are compatible with the available mains supply.
4) Cleaning of reflectors and lenses should be carried out using clean, soft and lint free cloths and anti-static cleaning fluid
5) Do not carry out high voltage insulation test, i.e. 500/1000v this may damage internal components.
6) The Emergency Lighting CN500EMKIT remote pack must be suitably positioned to avoid high temperatures – Note: the ambient
7) Temperature range for the remote pack is 0 - 40°C.
8) All mains supply cables connected to CN500EMKIT remote pack must be kept as short as possible and should be of a HAR approved heat resisting type.
9) The Emergency Lighting CN500EMKIT remote pack is supplied with a 4 way mains plug which has screw type terminals suitable for cable of 0.5mm^2 to 1.5mm^2 CSA.
10) Supply cables and lamp circuit cables should be physically segregated, and all LED drive/indicator cabling kept as far away as possible from any other lamp wiring.

WIRING DIAGRAM

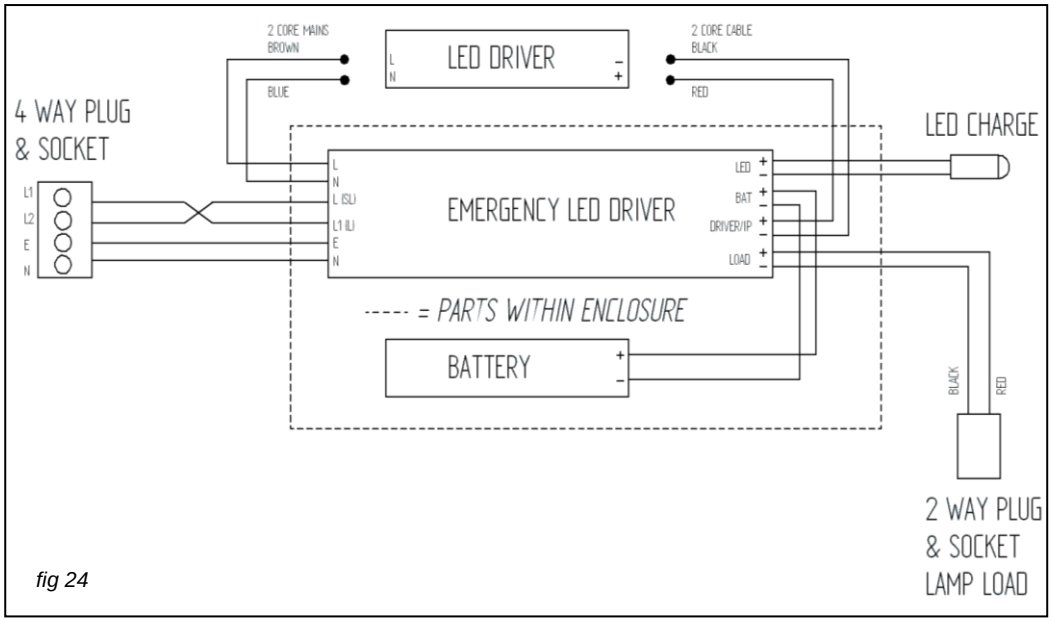


fig 24

FURTHER INFORMATION

TECHNICAL SUPPORT
Telephone: 0161 331 5700
E-mail: technical@whitecroftlight.com
http://www.whitecroftlighting.com/

Whitecroft lighting

Concert S

Emergency Kit

Recessed LED Emin Kit
Installation Instructions

PK/LFTCONC500EM

April 2022 - Rev D

Whitecroft Lighting Limited
Burlington Street, Ashton-under-Lyne, Lancashire OL7 0AX
Telephone +44 (0)161 330 6811 Facsimile: +44 (0)161 331 5855
Registered No. 3848973 England Registered Office: As above

SPECIFICATION

The emergency ballast lumen factor when used with the Concert S LED luminaire is 0.35.
Wiring complying with the relevant wiring regulations should include a permanent 220 to 240 volt 50Hz supply for battery charging and monitoring purposes.

The CN500EMKIT remote pack should be connected to the normal mains supplies for a minimum of 24 hours before operating in emergency lighting mode because the battery requires a 24 hour charge before it will provide full rated duration (NB: battery duration performance will improve with the first two or three charge/discharge cycles).

All emergency lighting installations should be regularly tested and the results recorded. The appropriate test schedule is detailed in EN 50172.

Led Downlight – complete with driver

Body
• Sizes and options:
– Fixed 82mm Ø
– Adjustable 95mm Ø
• Modular design with fixed and tilting versions using one standard LED package
• Die cast aluminium body
• Bezel finished white or brushed aluminium
• For ceiling thickness: 3.0mm to 17.0mm
• For ceiling void minimum: 210.0mm

Driver

• Constant current 350mA
(the driver supplied may be upgraded)

Dimensions
All Dimensions shown are in mm (unless stated otherwise)

Version	H	Ø	CAØ	KG	D
Fixed	100	82	72	0.3	49.5
Adjustable	100	95	80	0.3	56

Driver	H	W	L	KG
Driver	37	52	108	0.2

H = Product Height
Ø = Product Diameter
CAØ = Cut Aperture for Ceiling
D = Length between centres

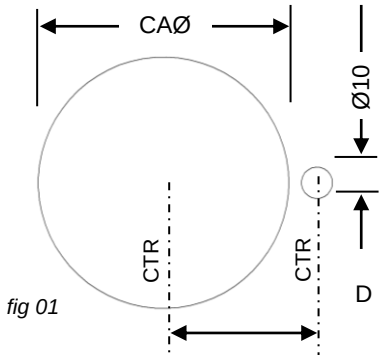


fig 01

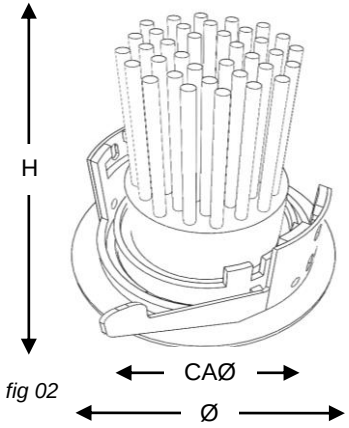


fig 02

INSTALLATION DETAILS

1. Unpack all components and examine, to ensure they are free from damage.

The package should include the following-
1 x EMIN Kit main body
2 x LED feature rings

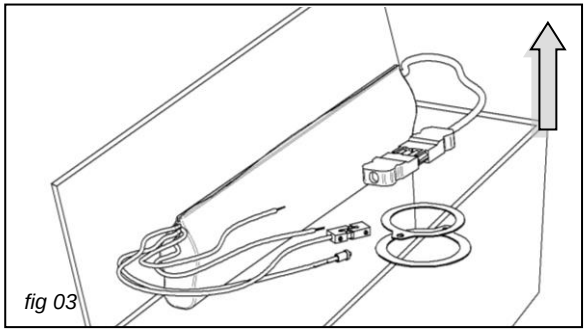


fig 03

2. The aperture position should be marked on the surface where the product is to be fitted; the dimensions for this can be seen in the Dimension Table and in fig 01 & 02. Pay careful attention to product type being used, as two different aperture sizes are required depending on the product being fitted. Also pay attention to the surface thickness range which the product can be used within, this is 3mm – 17mm.
If a soft / fibre tile is being used ensure that a pattress is fitted behind the tile for additional support.

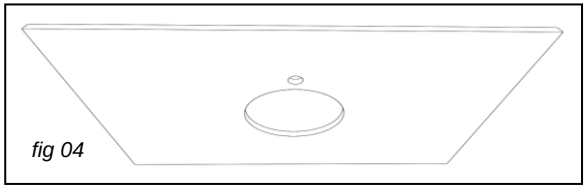


fig 04

3. The feature / emergency LED indicator ring should now be fitted to the luminaire bezel.
Please note that the bezel will be supplied with differing spring retention clips dependant on type / size.
For bezels supplied with coil springs (fig05) rotate springs to vertical position (fig05a) before offering ring to bezel.
For bezels supplied with leaf springs (fig06) depress springs on both sides before offering ring to bezel
In all cases, allow springs to return to initial position once through the ring aperture


fig 05a


fig 05b

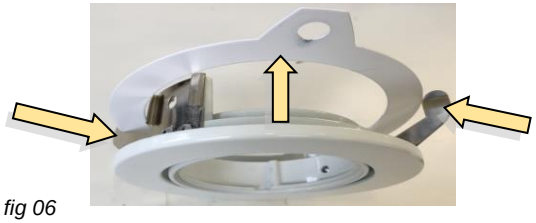


fig 06

4. Remove the LED driver cover by unscrewing it from the driver.
Next remove the 2 cables from the terminations in the LE driver

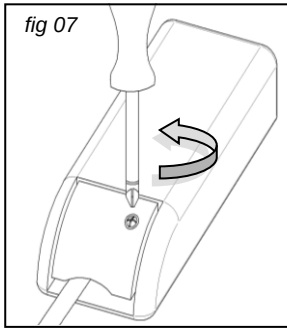


fig 07

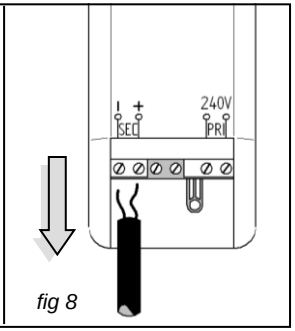
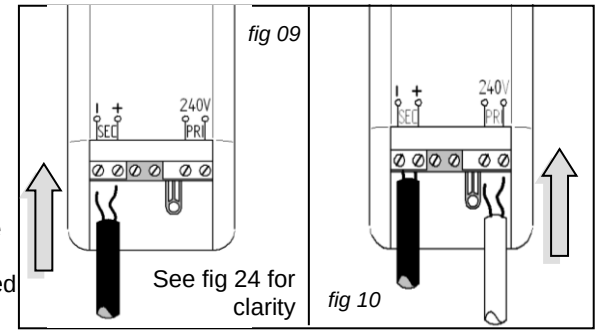
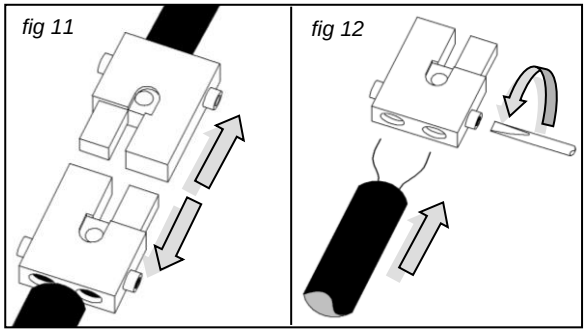


fig 8

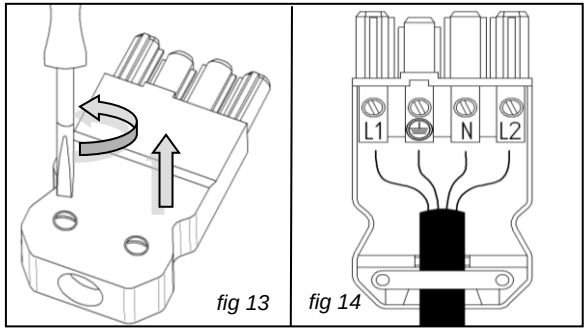
5. Take free red and black cables which are attached to the emergency kit and secure them to the LED driver in the position shown in fig 9 (SEC position) please note that these terminations are polarity continuous. Next take the free brown and blue cables from the emergency kit and secure them to the LED driver as shown in fig 10, note these terminations are not polarity continuous, The LED driver cover can now be screwed back on, ensuring that the cover locates on the double insulation of both cables



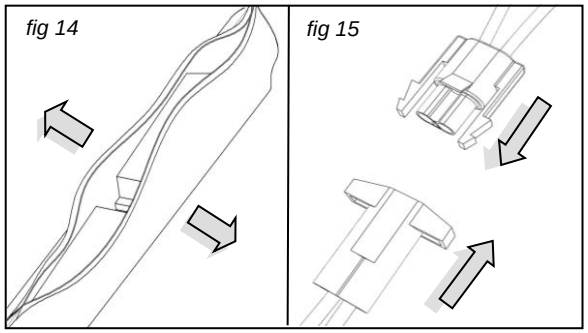
6. Locate the 2 x 2 way connectors fixed to a cable from the emergency kit and disconnect the free connector by pulling them apart (see fig 11)
Next take the 2 cables which were removed from the driver in point 4. and fix them into the terminations on the 2 way connector which was just removed, ensuring the red cable connects with the red cable from the emergency kit, please note that this termination is polarity continuous, (see fig 12.)



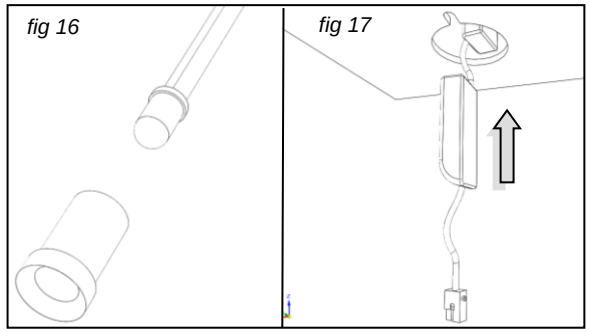
7. Disconnect the free 4 way connector from the emergency kit and remove the top cover (see fig 13)
Ensure that the power supply is isolated, then bring the power supply cable through the prepared aperture in the ceiling and connect the corresponding wires (see wiring diagram fig 24 for more details) ensuring that the terminations are secure. Next fix the top cover of the connector back into position (see fig 13 for removal and assemble.)



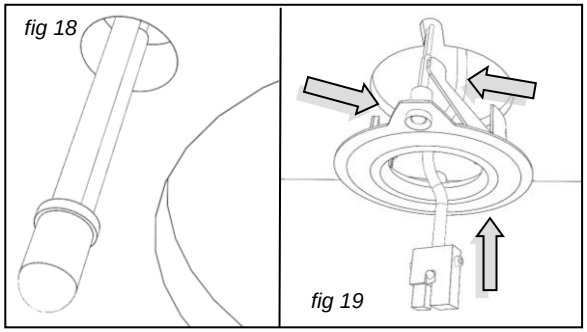
8. The emergency battery pack can now be connected, to access this open the emergency kit as shown fig 14.
Then take the 2 connectors which are attached to the battery cells and connected them as shown in fig 15.



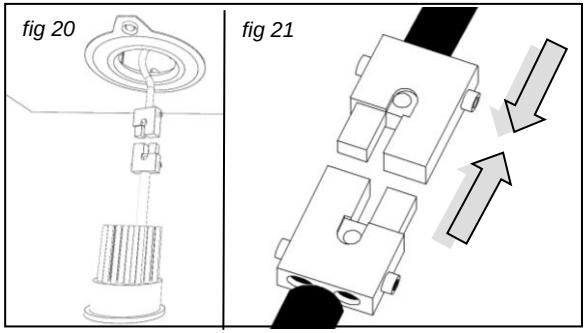
9. The Emergency LED is to be removed from the collar it is contained in; this will pull off the small LED (see fig 16)
Next push the emergency pack and driver through the prepared aperture in the ceiling, leaving the 2 way connector exposed.
The emergency pack can be secured into place if required.



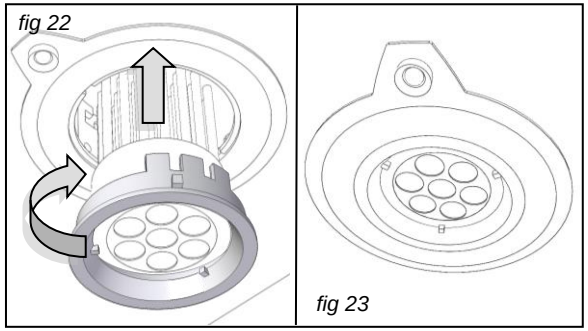
10. Pull the emergency LED through the small pre cut aperture from behind the ceiling. Next offer the bezel and LED feature ring up to the aperture, with the 2 way connector and lead threaded through it. Press / rotate the 2 x side springs as per step 3 above to allow the bezel to fit through the aperture whilst ensuring that the emergency LED locates in the small hole in the feature ring. When in position the springs will hold the bezel in place. The small collar removed in fig 16 can now be re-assembled to the LED and fixed into the feature ring



11. Take the LED head and inner bezel and offer the 2 way connector up to the corresponding 2 way connector positioned through the LED feature ring. Then push the connectors together as detailed in fig 21.
Always ensure that the small white bezel remains attached to the main LED head see the item coloured grey in fig 22 for reference.



12. To secure the LED Head to the bezel offer it up with the 2 up-stands on the side, located in position with the 2 holes inside the bezel. Next push the up stands through the holes and finally turn the LED Head in a clockwise manner until it comes to a stop. The product is now fixed into position and ready to be tested.



Please note: All images shown are for illustration purposes only and should be used as a reference guide.