

Introduction

With 250 stations on the LU network, the complete 'Modernisation and Refurbishment' program now in progress, is a huge undertaking by any standards. With several key milestones to be met during the next 2 years, any improvements in efficiency during the process is vital.

Modernising station lighting is a key factor throughout the process, and with the huge number of luminaires installed in any one of the LU underground stations, any improvement in this area will have a large benefit overall.

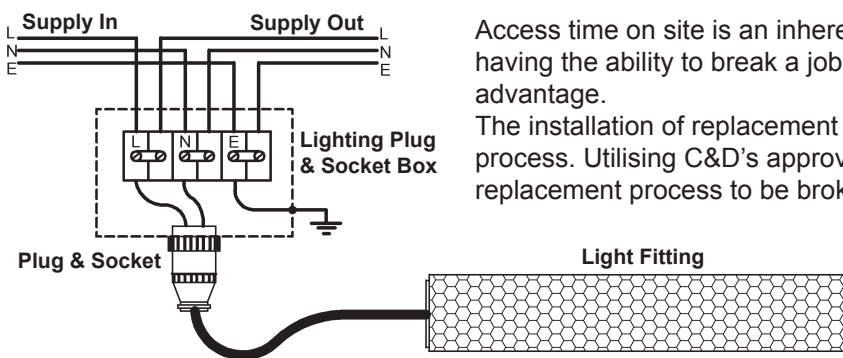
Working closely with EDF Energy, one of the major contractors involved in the project, a small die-cast assembly containing terminals and a side mounted plug & socket was developed to greatly speed-up the Luminair renewal process.

Although being a fairly simple assembly, there was no proprietary product that met the required LU standards in terms of size and assembly format. The die-cast enclosure used in the assembly is a standard Craig & Derricott item, but the finish is the approved 'Cupon' non toxic fume process. The assemblies are supplied in Grey for LU circuits and Red for DNO (Rec) circuits.

These have now been used throughout Oxford Circus station.

Craig & Derricott is supplying many other products to the 'LU Refurbishment' project; if you would like details, or would like to discuss your particular requirement, please contact Paul Cranshaw on +44(0)1543 375541 who will be pleased to advise you further.

Application



Access time on site is an inherent problem with the up-grade process, and having the ability to break a job down into manageable chunks is a distinct advantage.

The installation of replacement lighting units can be a long and difficult process. Utilising C&D's approved plug & socket junction boxes, allows the replacement process to be broken down into smaller operations.

Typically:-

- Install junction boxes.
- Cable feeds in & out of junction boxes
- Fit light fitting.
- Wire light fitting to plug and install.

Although individual sites may require different specific processes, there is no doubt that the availability of a ready assembled, *and approved*, item for such applications can save considerable time, and hence, money.

Conclusion

This specific item was produced in answer to a problem experienced by one of the key contractors. If you have a problem, then please raise it with us. For every problem, there is a solution, and we have years of engineering experience which makes us **the 'Solutions Provider'**.

Technical Data Sheet

Metronet - Lighting Plug & Socket Boxes

Catalogue Numbers

Complete assembly (less plug) finished Grey **SBCGLUL**
 Complete assembly (less plug) finished Red **SBCRLUL**

Specification

Enclosure

Basic Enclosure Cat No.	E20
Casting Material	Aluminium - LM6
Pre Treatment	Iron Phosphate
Paint Finish	Grey - Copon Hycote EA9WB Dark Admiralty Grey Red - Copon Hycote EA9WB Poppy Red
Gasket Material	948 Thermoplastic Elastomer
Earthing Points	Lid & base
Entries	1 x M25

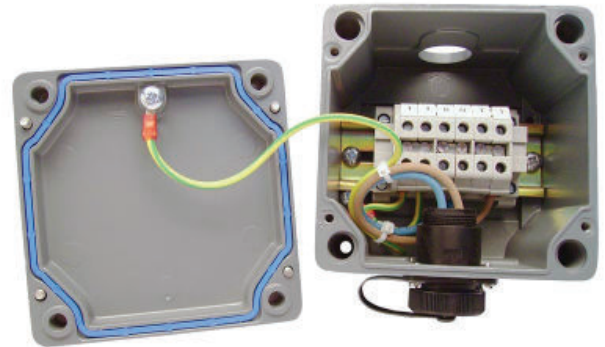
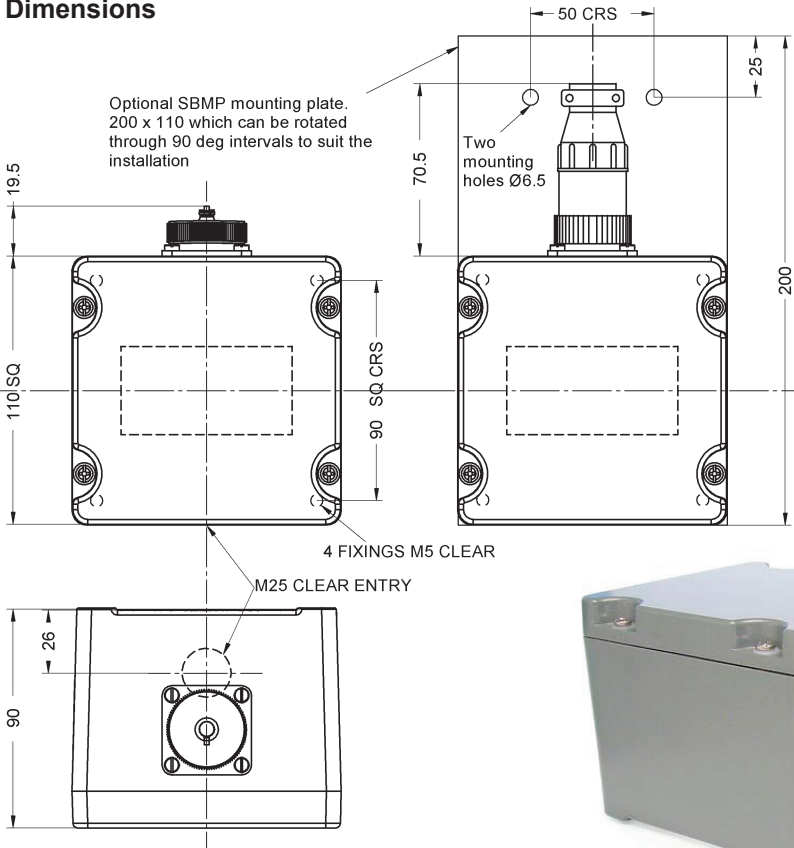
Terminals

Maximum Current Rating.	61A
Material	Polyamide 6.6
Mounting	'Top Hat' DIN rail
Voltage Rating	750V a.c.
Conductor Sizes	0.5 to 10 mm ²
Jumper	3 x 2 pole
Terminations	2 x screw connections
Rated Cross Section	10 mm ²
Tightening Torque	1.5 Nm

Plug & Socket

Format	Three pin power connector
Housing Material	Thermoplastic, 94V-0 rated
Colour	Black
Contact Material	Copper, silver plated

Dimensions

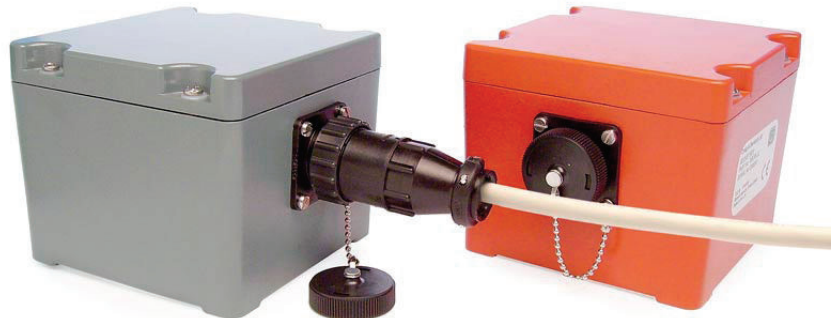


Lid removed to show interior assembly

Spares

Loose plug (3 pin)	SBPNFL
Loose plug cabled with 1M of 3 core Delta fire tough cable or equivalent	SBP1MFL
Loose plug cabled with 2M of 3 core Delta fire tough cable or equivalent	SBP2MFL
External Mounting Plate - Galvanised (110h x 200w x 2thk)	SBMP

Catalogue No



Showing examples of the Red & Dark Grey finishes