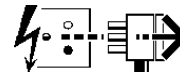


Disconnect from mains supply before replacing the fuse or the lamp.
 Vor dem Einsetzen der Sicherung oder der Lampe Spannungsfreiheit herstellen.
Débrancher le secteur avant de remplacer le fusible ou l'ampoule.
 Desconectar del suministro de la red, antes de realizar la sustitución del fusible o de la lámpara.
Voor het vervangen van lamp of zekering, eerst netspanning uitschakelen.
 Koppla bort spänningen före byte av en säkring eller en lampa.



Switch Off
 Abschalten
Débrancher
 Desconectar
Uitschakelen
 Stäng av

Introduction

This unit has been designed for use with SELV luminaires and track systems.

The unit when supplied with mains voltage between 198 Volts (min) and 254 Volts (max) and loaded between 35 Watts and recommended maximum will supply a set of luminaires with a nominal 11.8 Volts RMS, the optimum voltage for colour rendering and lamp life.

This unit features a patented Soft Start function (which further increases lamp life) and Short Circuit and Overload Protection (see Special Notes).

This leaflet should be read in conjunction with Instruction Sheet IS5155.

Installation Procedure

Installation should be carried out by a suitably qualified person in accordance with good electrical practice and the appropriate national wiring regulations.

Switch off mains electrical supply before commencing installation.

Using suitable fixing screws, secure unit in position allowing access to primary fuse (M). If installing on ceiling, use diagonal keyhole slots (C & K) and opposite diagonal fixing holes (D & J).

Primary Connection

Fit cable clamp (E), feed mains supply cable (F) through clamp and connect leads in respective terminals in terminal block (L). Tighten cable clamp. The unit is protected by a F5A fuse (M).
 NOTE: Switch off mains supply before changing fuse.

Secondary Connection

To obtain 11.8 Volts at the luminaire, the supply cable volt drop must be considered (Table B).

If luminaire supply cables are the same length and diameter, all luminaires will be supplied with 11.8 Volts.

If different cable lengths of the same diameter are used, it is important they are within the tolerances as shown in Table A. The tolerances allow a 0.4 Volt drop along different luminaire supply cable lengths.

If different cable lengths are used voltage sensing must be carried out at the luminaire terminal on the shortest luminaire supply cable. If the cable tolerances are adhered to, all luminaires within the installation will receive between 11.4 Volts and 11.8 Volts.

Fit cable clamps (G), feed cables (see Table A) through clamps and connect in terminal blocks (A & H). Tighten cable clamps.

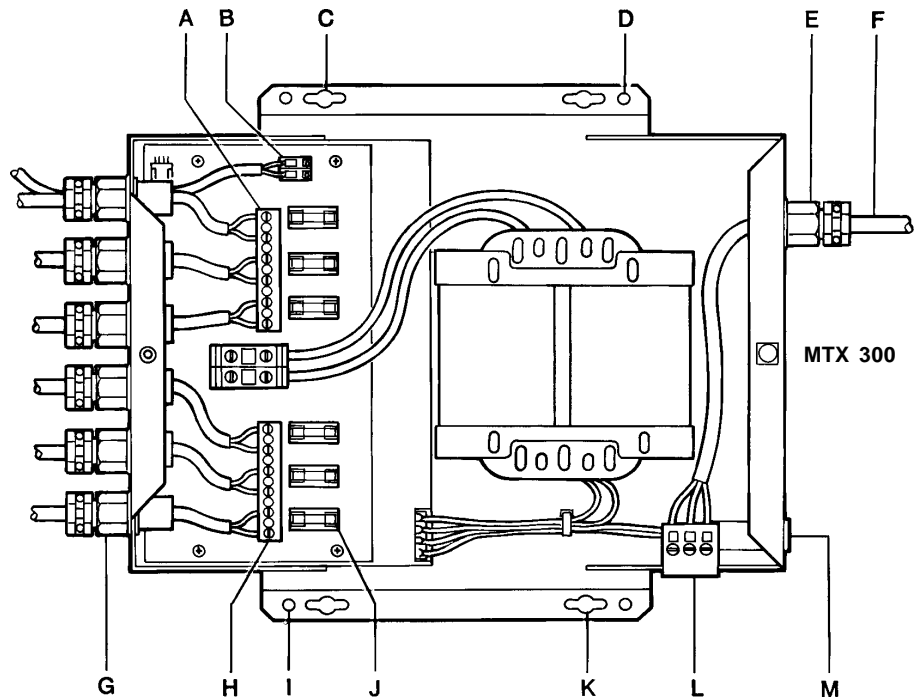
Secondary Fusing (MTX 300)

The unit is supplied fitted with Quick Acting (Ceramic) F10A fuses. If cable current ratings dictate different fuse ratings or lamp ratings dictate different fuse ratings, the following precautions should be strictly adhered to during replacement:

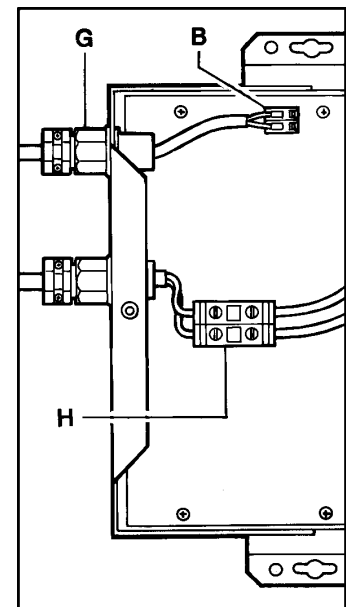
1. Ensure mains supply to unit is switched off.
2. When removing fuse do not over stress or deform clip contacts.
3. Ensure fuse caps and clip contacts are clean (avoid handling).
4. Locate fuse centrally in contacts before inserting.

Volt Sensing Connection

Connect 1mm square leads in voltage sensing terminals (B) and connect other ends to luminaire input terminals with the shortest cable run (see Fig.1.), or to track/splitter input terminals (see Fig. 2 & 3.).



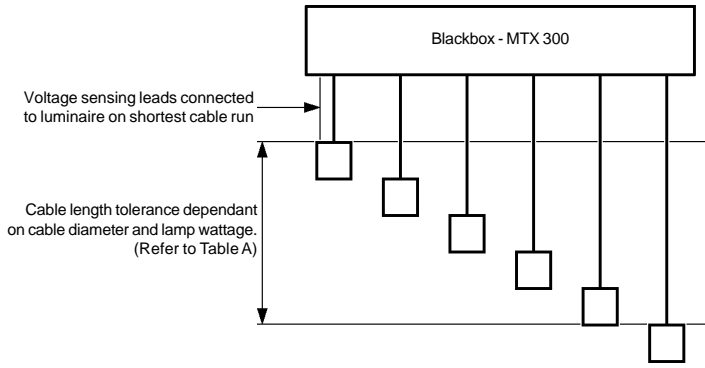
MTX 300T



Special Notes

1. If a short circuit occurs on any output circuit, the unit will shut down to a very low voltage which constantly monitors the output circuits, allowing the unit to restart as soon as the short circuit is removed.
2. If unit is overloaded, the lamps will shut down and pulse intermittently until overload is removed.
3. If neon indicator goes off, this may indicate a failed primary fuse, and does not necessarily show that mains supply to unit is off.
4. If voltage sensing connections are not made or become faulty, the unit will deliver a reduced secondary voltage until connection is made.
5. Checking of SELV voltage at luminaire, track or distribution box should be made where voltage sensing line is connected, and only a true RMS meter will give correct results.

Fig. 1. - Typical Installation - MTX 300



Longest cable (up to maximum shown in Table A) minus tolerance = Shortest cable.

Example:
Using 2.5mm² cable and 20W lamp and longest cable is 50 metres.

50 - 14 (Tolerance) = 36 Metres.
This will give 11.8V on shortest run of 36 metres and 11.4V on longest run of 50 metres.

All lamps will run within manufacturer's tolerance if cable tolerances are adhered to.

Fig. 2. - Track Installation - MTX 300T

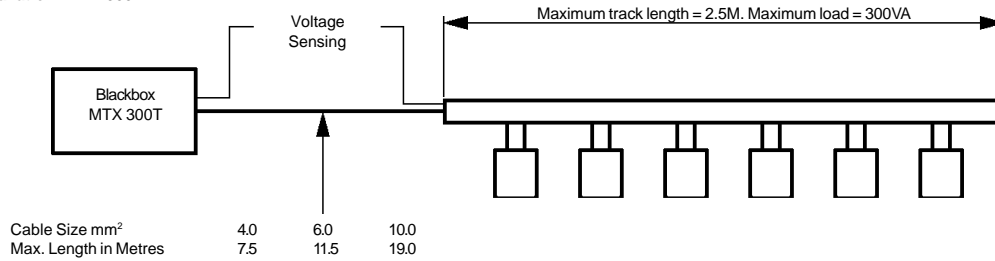
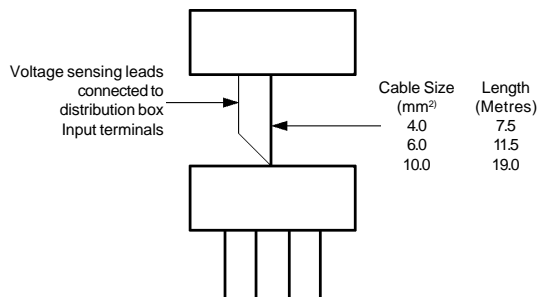


Fig. 3. - Blackbox and Distribution Box Installation



Distribution Box to Luminaire - Cable lengths in Metres

| Cable Size (mm ²) | Lamp Wattage | | | |
|-------------------------------|--------------|------|------|-------|
| | 20W | 35W | 50W | 75W |
| 1.0 | 5.5 | 3.25 | 2.25 | 1.5 |
| 1.5 | 8.5 | 5.0 | 3.5 | 2.25 |
| 2.5 | 14.0 | 8.0 | 5.5 | 3.75 |
| 4.0 | - | 12.5 | 8.5 | 6.0 |
| 6.0 | - | - | 13.5 | 9.0 |
| 10.0 | - | - | - | 15.25 |

Table A. - Maximum Cable lengths and tolerances in Metres

| Cable Size (mm ²) | Lamp Wattage | | | | | | | |
|-------------------------------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|
| | 20W | | 35W | | 50W | | 75W | |
| | Maximum Length | Tolerance | Maximum Length | Tolerance | Maximum Length | Tolerance | Maximum Length | Tolerance |
| 1.0 | 34.0 | 5.5 | 19.5 | 3.25 | 13.5 | 2.25 | 9.0 | 1.5 |
| 1.5 | 51.5 | 8.5 | 29.5 | 5.0 | 20.5 | 3.5 | 13.5 | 2.25 |
| 2.5 | 84.5 | 14.0 | 48.5 | 8.0 | 34.0 | 5.5 | 22.25 | 3.75 |
| 4.0 | 131.0 | 22.0 | 74.5 | 12.5 | 52.5 | 8.5 | 35.0 | 6.0 |
| 6.0 | 207.0 | 35.0 | 115.0 | 19.5 | 81.0 | 13.5 | 54.0 | 9.0 |
| 10.0 | 342.0 | 57.0 | 195.0 | 32.0 | 137.0 | 23.0 | 91.5 | 15.25 |

Table B. - Volt Drop Calculation

| Cable Size (mm ²) | Volt Drop per Amp per Metre | Cable Volt Drop x Lamp Current x Cable Length |
|-------------------------------|-----------------------------|---|
| 1.0 | 0.042 | i.e. 0.0042 x 1.67 x 2 Metres = 0.14 Volts |
| 1.5 | 0.028 | |
| 2.5 | 0.017 | |
| 4.0 | 0.011 | |
| 6.0 | 0.0071 | |
| 10.0 | 0.0042 | |
| Lamp | Current | |
| 20W | 1.67 | |
| 35W | 2.92 | |
| 50W | 4.17 | |
| 75W | 6.2 | |

Suitable for use indoors

Geeignet für Innenanwendung

Pour un usage interne

Adecuada para uso en interiores

Geschikt voor gebruik binnen

Lämplig för inomhusbruk



Replace any cracked protective shield.

Dieses symbol bedeutet, dass defekte Schutzgläser sofort ersetzt werden müssen.

Ce symbol indique que vous devez remplacer tout verre de protection fêlé.

Este simbolo indica que hay que reemplazar filtros en caso de rotura o desperfectos.

Dette symbolet indikerer at alle ødelagte (sprukne) sikkerhetglass må skiftes.

Valaisinta el saa käyttää ilman suoja-alasia vioittunut suoja-alasi on vaihdettava uuteen ennen valaisimen käyttöön ottoa.

< Millimetres >



This Electrical Product MUST be recycled.



04.08

Concord

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