

### 4.3 REPLACING LAMP

4.3.1 Failed lamps should be replaced as soon as possible ensuring the new lamp is exactly the same type (lamp cap, wattage and physical size).

4.3.2 Switch off mains supply.

4.3.3 Allow the lamp to cool before replacing.

4.3.4 Follow previous procedure 4.2.2 onwards to fit the new lamp.

1000 -  
1200 cm

2 lights don't  
work any more

- If you need any help with the installation or maintenance of Illuma products, you can:
- a. call our Technical Hotline number: Tel. 0845 6060414 (UK customers only)
  - b. call our sales office Tel. +44 (0) 1509 601050
  - c. or fax us on Fax. +44 (0) 1509 601036

#### TECHNICAL ENQUIRIES

**Illuma Lighting Ltd.** Illuma House, Gelders Hall Road, Shepshed, Leicestershire LE12 9NH, U.K.  
Tel: 0845 6060414 Fax: 0800 994488  
email: [info@illumaco.uk](mailto:info@illumaco.uk)  
web: [www.illumaco.uk](http://www.illumaco.uk)

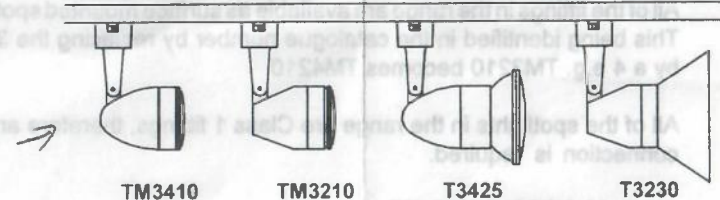
INS/ LUMAPAR-S/ISS.2



2005  
£115  
**illumina**



### INSTALLATION & WIRING INSTRUCTIONS FOR LUMAPAR SPOTLIGHTS



Product Range

Track: TM3210, T3220, T3225, T3230, TM3410, T3420, T3425, T3430.

Surface: TM4210, T4220, T4225, T4230, TM4410, T4420, T4425, T4430.

#### 1. IMPORTANT: Please read these instructions carefully before proceeding with installation.

- 1.1 This instruction sheet should be passed on by the installer to the end user for maintenance purposes.
- 1.2 It is recommended that the fitting be installed by a competent electrician in accordance with these instructions and the appropriate wiring regulations.
- 1.3 Illuma products should not be modified. The company will not accept any responsibility for any modified products or for any damage caused as a result of their modification.
- 1.4 It is not recommended that the fitting be installed in areas that are liable to reach an ambient temperature in excess of 35°C.
- 1.5 The fitting should not be positioned closer than 0.8m to the surface of the lighted object.
- 1.6 All fittings run hot. It is the installers responsibility to consider fire risk and take precautions. The fittings should not be installed close to any flammable material.
- 1.7 The fitting is suitable for indoor use in normal dry atmospheres and should be protected from condensation and splashing, which may cause the lamp to shatter.
- 1.8 Use a soft, damp cloth to clean fitting and dry immediately. Do not use any chemical/abrasive cleaner.
- 1.9 Illuma products will give you many years of trouble free service; but you can maximise their life by only using high specification, guaranteed long life, branded lamps.

1002

## 2 GENERAL

2.1 Lamps are not supplied with the fitting and should be ordered separately. Lamp information is detailed on the product label attached to either the track adaptor or surface plate of the fitting.

2.2 Do not use dichroic lamps.

2.3 All of the fittings in the range are available as surface mounted spotlights. This being identified in the catalogue number by replacing the 3 suffix by a 4 e.g. TM3210 becomes TM4210.

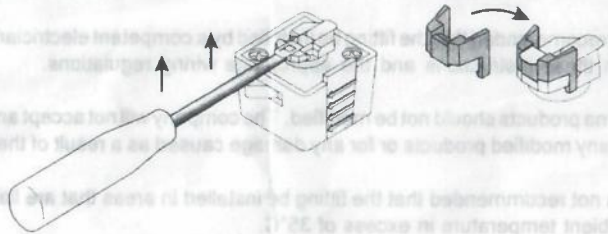
2.4 All of the spotlights in the range are Class 1 fittings, therefore an earth connection is required.

## 3.0 INSTALLATION & WIRING

### 3.1 TRACK VERSIONS: TM3210, T3220, T3225, T3230, TM3410, T3420, T3425, T3430.

3.1.1 Ensure that the track is correctly wired and securely fixed to its mounting surface in accordance with the installation instructions.

3.1.2 The track adaptor supplied with the fitting is suitable for one and two circuit track. To modify the adaptor for the second circuit, pull up the copper contact marked 'P' or 'L' with a screwdriver and insert the plastic contact support supplied with the two circuit track.



3.1.3 **Switch off mains supply** before attaching the fitting to the track. Insert the adaptor contacts into the track channel. Rotate the adaptor 90° so that the polarity arrows point to the polarity line on the track. The adaptor latch will click into the channel, locking the fitting into place.

### 3.2 SURFACE VERSIONS: TM4210, T4220, T4225, T4230, TM4410, T4420, T4425, T4430.

3.2.1 Select a suitable weight-bearing surface.

3.2.2 **Switch off mains supply** before making any wiring connections.

3.2.3 The mains supply by stripping back outer sheath.

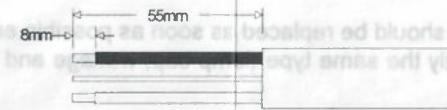


Fig. 1

3.2.4 Connect live, neutral and earth leads to the mains terminal block.

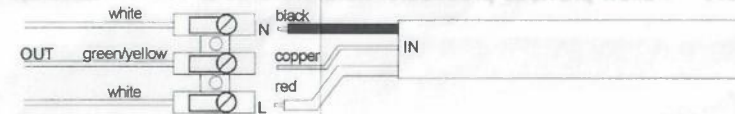


Fig. 2

3.2.5 When the electrical connections have been made, fix ceiling plate to the ceiling with screws of a suitable type.

## 4. FITTING / REPLACING LAMP

### 4.1 IMPORTANT

4.1.1 **The fitting must be switched off at the mains to avoid an electric shock when fitting or replacing lamps.**

4.1.2 Failed lamps should be replaced as soon as possible ensuring the new lamp is of a suitable type and does not exceed the stated maximum wattage.

### 4.2 FITTING LAMP.

4.2.1 **Ensure mains supply is switched off.**

4.2.2 To fit a new lamp, hold the lamp by its front rim, insert it into the lampholder and rotate the lamp clockwise. On PAR 20 and PAR 30 type lamps, it is important not to over tighten the lamp.

4.2.3 N.B On the TM3210, T3220, T3225, T3230, TM3410, T3420, T3425, T3430 fittings, it is advised to remove the fitting from the track before fitting the lamp.

4.2.4 Any marks on the front glass of the lamp should be wiped clean using a soft, lint free cloth.

4.2.5 Switch on mains supply.

5.3 Each fitting can be individually switched on/off using ( ) located on the side of the adaptor box.

6. Track Connectors and Accessories (should be ordered separately).

Cat no.	Description
T20*	Adjustable accordion Connector
T23	Straight Connector
T24*	Straight or 90° Connector
T25*	'T' Connector (1 x Live end required)
T26*	'X' Connector (2 x Live ends required)
T33 (500)	Track suspension kit (2 x 460mm rods) (NB: T4, T8, and T12 require 2,3 or 4 rods respectively)
T33 (1000)	Track suspension kit (2 x 920mm rods) (NB: T4, T8 and T12 require 2, 3 or 4 rods respectively)
T37F	"T" bar attachment clip
T38*	Live end (Single circuit)
T39	Centre Feed
TDE1	Dead end
TDE2	Dead end - Twin circuit

\* Items also available for twin circuit track. Change catalogue number prefix from 'T' to 'TU' i.e. T38 - becomes TU38

#### Technical Enquiries

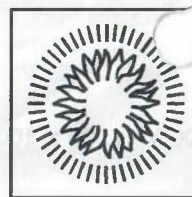
If you need any help with the installation or maintenance of Illuma products, you can:

- Call our Technical Hotline number: Tel. 0845 6060414 (UK customers only)
- Call our sales office Tel. +44 (0)1509 601050
- or fax us on Fax. +44 (0)1509 601036

Illuma Lighting Ltd. Illuma House, Gelders Hall Road, Shepshed, Leicestershire, LE12 9NH, U.K.

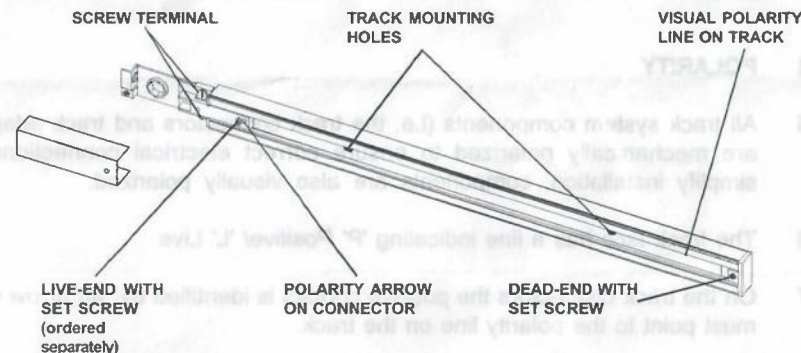
Tel: +44 (0)1509 601050 Fax: +44 (0)1509 601036  
email: info@illumina.co.uk web: www.illumina.co.uk

INS/TRACK/ISS.9



# illumina

## INSTALLATION & WIRING INSTRUCTIONS FOR MAINS VOLTAGE TRACK



**1. IMPORTANT: Please read these instructions carefully before proceeding with installation.**

- 1.1 This instruction sheet should be passed on by the installer to the end user for maintenance purposes.
- 1.2 It is recommended that the track is installed by a competent electrician in accordance with these instructions and the appropriate wiring regulations.
- 1.3 Illuma products should not be modified. No responsibility will be accepted for any modified products or for any damage caused as a result of their modification.
- 1.4 It is not recommended that the track is installed in areas that are liable to reach an ambient temperature in excess of 35°C.
- 1.5 The track is suitable for indoor use in normal dry atmospheres and should be protected from condensation and splashing.
- 1.6 All light fittings run hot. It is the installers responsibility to consider fire risk and take appropriate precautions. The track fittings should not be installed close to any flammable material.
- 1.7 Only use Illuma designed fittings for mains voltage track. The fittings should not be positioned closer than 0.8m to the surface of the lighted object.
- 1.8 To clean track, turn off mains supply and use a soft damp cloth and dry immediately. Do not use any chemical/abrasive cleaner.

## 2. GENERAL

### 2.1 CIRCUIT CAPACITY

2.2 One-circuit track has a maximum capacity of 16A (3800W i.e. 38 x 100W lamps).

2.3 Two-circuit track has a maximum capacity of 16A (3800W i.e. 38 x 100W lamps).

### 2.4 POLARITY

2.5 All track system components (i.e. the track connectors and track adaptors) are mechanically polarized to ensure correct electrical connections. To simplify installation, components are also visually polarized.

2.6 The track face has a line indicating 'P' Positive/ 'L' Live

2.7 On the track connectors the positive contact is identified by an arrow which must point to the polarity line on the track.

2.8 On the track adaptor the positive contact is identified by arrows on the adaptor latch and front face which must point to the polarity line on the track.

### 3.0 CUTTING INSTRUCTIONS

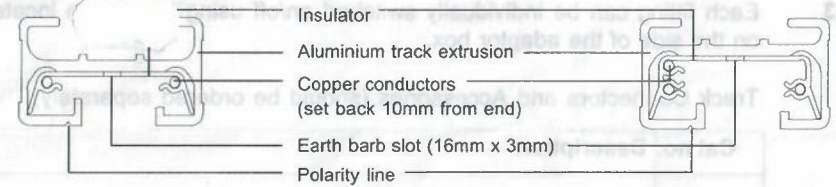
If it is necessary to cut the track, the guidelines below must be followed:

3.1 When cutting track, the aluminium track and the insulator must be the same length. A fine tooth hacksaw is recommended. Remove the dead end, push the insulator and conductors until they are flush with one end of the track, then cut at the OPPOSITE end to the length required.

3.2 Push the conductors partially out of the track and trim 20mm from the conductors for proper insertion of the connectors. Replace dead end.

3.3 Each end of the insulator that will have a connector inserted into it must have a notch cut into the centre of the insulator. Using the end of the insulator that has been cut off as a pattern, cut a notch 16mm long by 3mm wide in the end of the insulator using a knife or scissors. (Not required on TU series track).

3.4 Push the insulator and the conductors fully into the track and insert the appropriate connector.



## 4. INSTALLATION & WIRING

4.1 **Switch off mains supply.** Mark fixing positions through pre-drilled mounting holes in track. Ensure that the track is securely fixed to its mounting surface to take the weight. A maximum loading of 8kg/m length should not be exceeded.

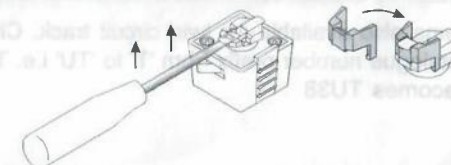
4.2 Remove cover of live end, and attach positive (red or brown) wire to screw terminal marked P1, L1. For twin circuit track, attach second positive (live wire) to second circuit terminals marked P2, L2.

4.3 Attach neutral (black or blue) wire to screw terminal marked N.

4.4 Attach earth (yellow/green) wire to earth terminal (Green screw), and replace cover on live end. NB: When connecting the earth wire to its terminal, an eyelet should first be formed in the wire and this placed under the head of the screw.

## 5.0 ATTACHING SPOTLIGHT

5.1 With two circuit tracks, to make fitting suitable for use on the second circuit, simply pull up the copper contact marked 'L' or 'P' with a screwdriver and insert the plastic contact support supplied with the two circuit track to ensure proper electrical contact and mechanical support.



5.2 To attach fitting and a spotlight onto the track, insert the track adaptor contacts on the adaptor (latch and front face) into track channel. Rotate the adaptor 90° so that the polarity arrows point to the polarity line on the track. The adaptor latch will click into the channel, locking the fitting into place.

