Tranilamp TMU's

- **increase life expectancy of lamps**
  Running the lamp at below rated voltage increases the typical running life of a filament lamp from 4000 hours to beyond 16,000 hours. Tranilamp LED clusters have a life typically in excess of 100,000 hours.

- **increase safety**
  Lamp voltages are isolated and at low safe levels

- **increase flexibility**
  Use with Tranilamp's extensive range of:
  - Panel housings and lenses
  - LED cluster lamps
  - Filament lamps

**Standard Specification**

- **Types**
  - TMU - Standard Transformer Indicator Lamp Body.
  - TEMU - As TMU plus transformer secondary with earth terminal.

- **Input Voltages**
  24, 50, 110, 240V std. 440, 550V and other voltages optional.

- **Operating Frequency**
  50/60 Hz as standard

- **Surrounding Air Temperature**
  Maximum 50 deg C when operating.

- **Lamps**
  6V, 1.8W tubular filament lamp supplied as standard.
  - E10 Miniature Edison Screw - MES
  - BA9s Miniature Bayonet Cap - MBC

- **Lamp Caps**
  - Funnel or Turret Shrouds for terminals (see Data Sheet 214).
  - Additional seals may be necessary for housings and lenses (see Data Sheet 200).

**Environment**

- **Weight (Body Only)**
  - TMU - 114g, TEMU - 115g.

**Tests**

- Transformer lamps conform to BS EN 60947-5-1. All unit are CE labelled in conformance with the L.V.Directive.

**Optional Extras**

- Operating Frequency
  400 Hz.

- **Input Voltages**
  440, 550V and others available on request.

- **Lamps**
  - 12, 24, 28V tubular filament lamp.
  - LED4, 4 X LED cluster lamp
    - Amber, Green, Red, Blue or White.
  - LED7, 7 X LED cluster lamp
    - Amber, Green, Red, Blue or White.
  - LEDM1 or LEDM1F (Flashing) lamp
    - Amber, Green, Red, Blue or White

- **Lamp Caps**
  - BA9s Miniature Bayonet Cap - MBC
  - Environment Protection to IP65

- **Panel housings and lenses**
  - Funnel or Turret Shrouds for terminals (see Data Sheet 214).
  - Additional seals may be necessary for housings and lenses (see Data Sheet 200).

**Transformer Lamp Body Arrangements**

**Circuit Diagrams**
# Transformer Lamp Indicators

## How to derive the correct Product Code

### Lens Housing
(see Product Data Sheet 200)

### Indicator Body Lamp Product Code

<table>
<thead>
<tr>
<th>Body</th>
<th>Lamp</th>
<th>Input</th>
<th>Type</th>
<th>Volts</th>
<th>Volts</th>
<th>Cap</th>
<th>Type</th>
<th>Lens Colour</th>
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<tbody>
<tr>
<td>TMU</td>
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<td>24</td>
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### Standard Filament Lamp 6 V 1.8W
(See LAMP VOLTAGES for options)

<table>
<thead>
<tr>
<th>LED7 Cluster 4.5 V AC</th>
<th>LED4 Cluster 4.5 V AC</th>
<th>LEDM1 4.5 V AC</th>
<th>LEDM1F 4.5 V AC</th>
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</thead>
<tbody>
<tr>
<td>RED</td>
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<tr>
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### INPUT VOLTAGES

<table>
<thead>
<tr>
<th>Standard Voltages available</th>
<th>24 V</th>
<th>50 V</th>
<th>110 V</th>
<th>240 V</th>
<th>440 V</th>
<th>550 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optional Voltages (Others on application)</td>
<td>24 V</td>
<td>50 V</td>
<td>110 V</td>
<td>240 V</td>
<td>440 V</td>
<td>550 V</td>
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### LAMP VOLTAGES

<table>
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<tr>
<th>Standard</th>
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<tbody>
<tr>
<td>Non-Standard</td>
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<td>(See Lamp Data Sheet 201 for further non-standard voltages available)</td>
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### LAMP CAPS

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<thead>
<tr>
<th>Standard Mini-Screw - MES</th>
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<tbody>
<tr>
<td>Optional Mini-Bayonet - MBC</td>
<td>MBC</td>
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</tbody>
</table>

### TERMINATIONS

| Standard 3.5mm captive cable clamp with cover (No Alternatives) | 4 |

### OTHER OPTIONS

<table>
<thead>
<tr>
<th>400 Hz Operation</th>
<th>Specify after Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP65 Protection - Funnel or Turret Shrouds protect Body Terminals</td>
<td>Specify after Code (see Data Sheet 211)</td>
</tr>
</tbody>
</table>

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Example 1

**Product Code:-** TMU/LED7R/240/MBC/4

A Standard TMU lamp body, 4.5v MBC red LED 7 lamp cluster and standard screw terminals. Input: 240Vac, 50/60 Hz.

Example 2

**Product Code:-** FHA/TEMU/110/24/4 Blue

A Transformer Indicator lamp with earthed secondary, 24V MES capped filament bulb and standard screw terminals mounted on an FH housing with a blue FA lens. Input: 110Vac, 50/60 Hz.