

Transformer lamps are generally used for running indicator lamps on Control Panel at low voltages.

### Using Tranilamp TMU's

#### ● increases 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.

#### ● increases safety

Lamp voltages are run at very low safe levels

#### ● increases flexibility

Can use with Tranilamp's extensive range of:

- Standard filament lamps
- LED cluster lamps
- Panel housings and lenses

### Standard Specification

#### Types

- TMU** - Standard Transformer Indicator Lamp Body.
- TEMU** - As TMU plus transformer secondary with earth terminal.
- FTMU** - As TMU plus built-on free connecting fuseholder.

#### 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.

#### Lamp Caps

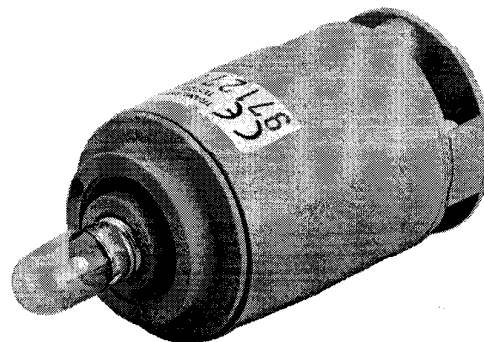
E10 Miniature Edison Screw - MES

#### Mounting

Mount to panel using JY or H Series housings and lenses (see Data Sheet 200). TMU's screw onto the housings.

#### Terminations

M3.5 cable clamps with fixed terminal covers to IP20.



TMU Indicator Body and Lamp  
(Standard without lens/housing)

#### Construction

Transformers are encapsulated in mouldings.  
(ABS/Polycarbonate grey, flame retardant to UL94Vo non-drip)

#### Tests

Transformer Lamps conform to BS EN 60947-5-1

All units are CE labelled in conformance with the L.V. Directive.

#### Weight (Body Only)

TMU - 114 g, TEMU - 115 g, FTMU - 119 g (not including fuse)

### 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 in Amber, Green, Red or Blue.
- LED7, 7 X LED cluster lamp in Amber, Green or Red.

Lamp Caps - BA9s Miniature Bayonet Cap - MBC

Environmental Protection to IP65 - 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

TMU/VOLTAGE/4	TMU/LED7/VOLTAGE/4	TMU/LED4/VOLTAGE/4	CONNECTIONS
TEMU/VOLTAGE/4	TEMU/LED7/VOLTAGE/4	TEMU/LED4/VOLTAGE/4	CONNECTIONS
FTMU/VOLTAGE/4	FTMU/LED7/VOLTAGE/4	FTMU/LED4/VOLTAGE/4	CONNECTIONS

### Circuit Diagrams

TMU
TEMU
FTMU

## How to derive the correct Product Code

Lens Housing (see Product Data Sheet 200)		Indicator Body Lamp Product Code					Lens Colour (If applicable)		
		Body / Type	Lamp	Input / Volts	Lamp / Volts	Cap / Type	4		
B O D Y	Standard Transformer Lamp Body	TMU							
	Standard Transformer Lamp Body with Earthed Secondary	TEMU							
	Standard Transformer Lamp Body with Fuseholder	FTMU							
L A M P	Standard Filament Lamp 6 V 1.8W (See LAMP VOLTAGES for options)		BLANK						
	LED 7 Cluster 4.5 V AC [RED, AMBER, GREEN only]	RED	LED7R						
		AMBER	LED7A						
		GREEN	LED7G						
	LED4 Cluster 4.5 V AC [RED, AMBER, GREEN and BLUE only]	RED	LED4R						
		AMBER	LED4A						
		GREEN	LED4G						
		BLUE	LED4B						
INPUT VOLTAGES	Standard Voltages available		24 V	24					
			50 V	50					
			110 V	110					
			240 V	240					
	Optional Voltages (Others on application)	440 V	440						
550 V		550							
LAMP VOLTAGES	Standard		6 V	BLANK					
	Non-Standard (See Lamp Data Sheet 201 for further non-standard voltages available).		12 V	12					
			24 V	24					
			28 V	28					
LAMP CAPS	Standard Mini-Screw - MES					BLANK			
	Optional Mini-Bayonet - MBC					MBC			
TERMINATIONS		Standard 3.5mm captive cable clamp with cover (No Alternatives)						4	
OTHER OPTIONS	400 Hz Operation						Specify after Code		
	IP65 Protection - Funnel or Turret Shrouds protect Body Terminals						Specify after Code (see Data Sheet 211)		

### Example 1

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

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

### Example 2

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

is 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: 110V at 50/60 Hz.