

Multi-Lamp Test Indicators enable groups of indicator lamps to be tested from a single pushbutton switch without interrupting normal operation.

## Tranilamp MTMU'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. The life of Tranilamp LED clusters is in excess of 100,000 hours.

- **increase safety**

Isolates the Operating Line when in Test Mode. Lamp voltages are run at very low safe values.

- **increase flexibility**

Can use with Tranilamp's extensive range of:  
 Filament Lamps  
 LED cluster lamps  
 Panel housings and lenses  
 Pushbutton switches

## Standard Specification

### Type

**MTMU** -Standard Multi-Test Transformer Indicator Body.

### Input Voltages

24, 110, 240V. AC supply only.

### Operating Frequency

50/60 Hz as standard.

### Ratings

Nominal current rating of standard MTMU's in Test Mode:

Input Voltage	24 V	110 V	240 V
Current Rating	160 mA	40 mA	30 mA

### 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). MTMU's screw onto housings.

### Terminations

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

### Construction

Transformers are encapsulated in mouldings. (ABS/Polycarbonate grey, flame retardant to UL94V0 non-drip)

### Tests

MTMU's conform to BS EN 60947-5-1.

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

### Weight (Body Only)

141 g

## Optional Extras

**Input Voltages** - Optional Voltages considered on application.

**Lamps** - 24, 28V tubular filament lamps. (Others available).

- LED4, 4 X LED cluster lamp in Amber, Green, Red, Blue, White.

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

- LEDM1 or LEDM1F (Flashing) single led lamp in Amber, Green, Red, Blue or White.

**Lamp Caps** - BA9s Miniature Bayonet Cap - MBC

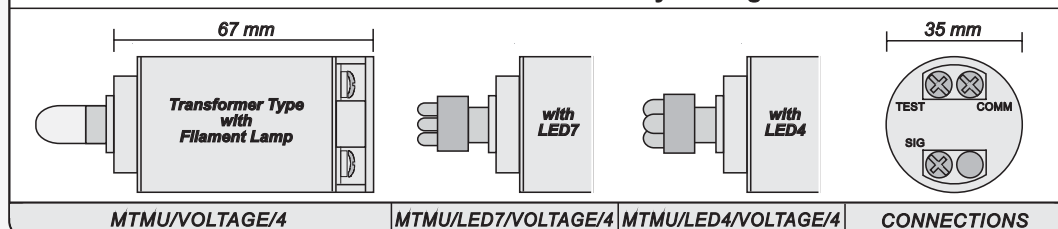
**Environmental Protection to IP65** - Funnel or Turret Shrouds for terminals (see Data Sheet 214).



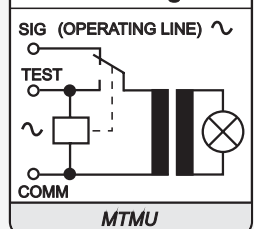
MTMU Indicator Body and Lamp (Standard without lens/housing)

203

## MTMU Multi-Test Indicator Body Arrangements



## Circuit Diagram

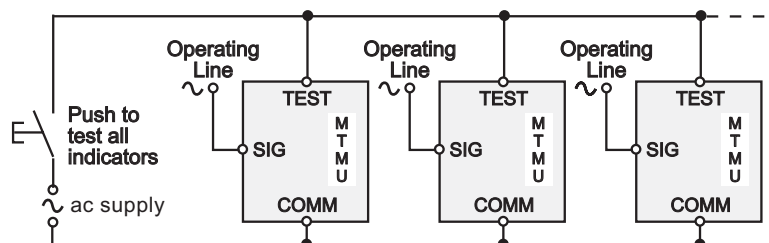


## MTMU Multi-Test Circuit Connection

MTMU's incorporate a single pole changeover relay to enable many units to be tested from one Test Pushbutton without interrupting normal operation. The Control Circuit is entirely isolated from the Indicator when the Test Pushbutton is pressed, thus eliminating any feedback.

The Control Circuit must be 50/60 Hz AC.

**NOTE:** If a 3 phase supply is used, the Test Circuit must be on the **same phase** as the Control Circuit.



# MTMU

## Multi-Lamp Test Indicator Lamps



Product Data Sheet 203/2 Issue 2

### How to derive the correct Product Code

#### Indicator Body Lamp Product Code

Lens Housing  
(see Product Data Sheet 200)

Body / Lamp / Input / Lamp / Cap / 4  
Type Volts Volts Type

Lens Colour  
(if applicable)

B O D Y	Standard Transformer Multi-Test Indicator Lamp Body	MTMU
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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 LED7R
		AMBER LED7A
		GREEN LED7G
		BLUE LED7B
		WHITE LED7W
	LED4 Cluster 4.5 V AC	RED LED4R
		AMBER LED4A
		GREEN LED4G
		BLUE LED4B
		WHITE LED4W
	LEDM1 4.5 V AC single led lamp	RED LEDM1R
		AMBER LEDM1A
		GREEN LEDM1G
		BLUE LEDM1B
		WHITE LEDM1W
	LEDM1F 4.5 V AC single led flashing lamp	RED LEDM1FR
		AMBER LEDM1FA
		GREEN LEDM1FG
		BLUE LEDM1FB
WHITE LEDM1FW		

INPUT VOLTAGES	Standard Voltages available (Others on Application)	24 V	24
		110 V	110
		240 V	240

LAMP VOLTAGES	Standard	6 V	BLANK
	Non-Standard (See Data Sheet 201 for further non-standard voltages available)	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
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OTHER OPTIONS	IP65 Protection - Funnel or Turret Shrouds protect Body Terminals	Specify after Code (see Data Sheet 214)
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**Example 1**  
Product Code:-  
**MTMU/LED7R/240/MBC/4**  
A Standard MTMU Multi-Test Indicator Lamp body, 4.5V MBC red LED 7 lamp cluster and standard screw terminals.  
Input: 240V, 50/60 Hz.

**Example 2**  
Product Code:-  
**MHA/MTMU/110/24/4 Blue**  
A Multi-Test Transformer Indicator lamp with 24V MES capped filament bulb and standard screw terminals mounted on an MH housing with a blue MA lens.  
Input: 110V, 50/60 Hz.

Tranilamp manufacture an extensive range of Panel Products including:  
a Diode Low Voltage Multi-Test Indicator Lamp to operate on DC. Ask for Product Data Sheet 204