



# EARTH TO NEUTRAL RELAY

## ENR-35-M1

## APPLICATIONS

Control & Relay Panel

DG Set Panels

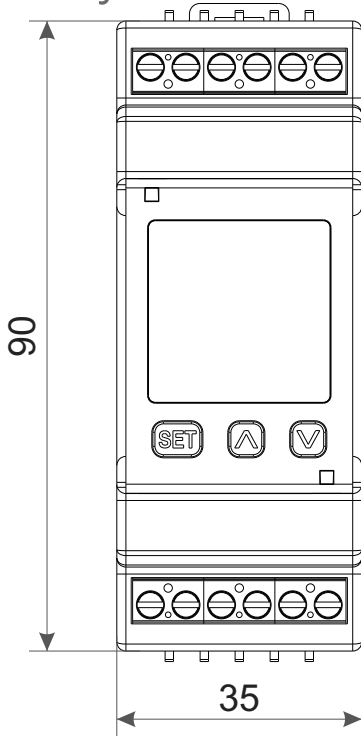
LT / HT Panel

Power Control Center Panels

Motor Control Center Panels

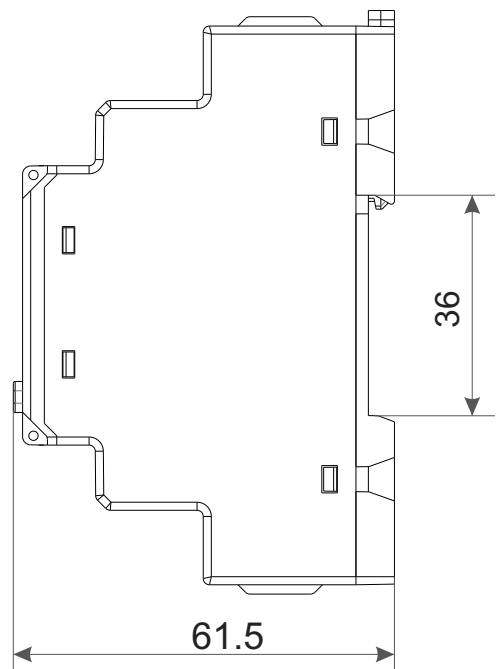
# Mechanical Dimensions

## Body Dimensions



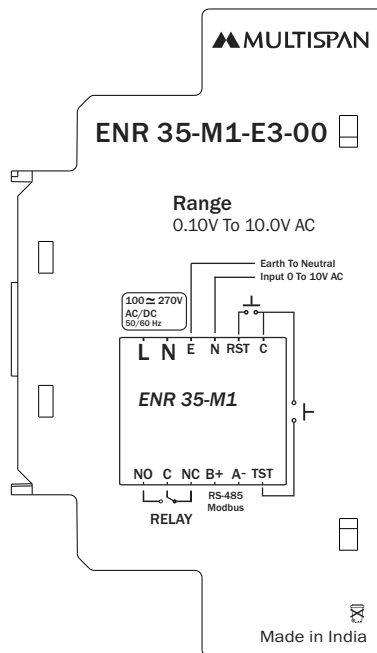
**FRONT VIEW**

All dimensions are in mm



**RIGHT SIDE VIEW**

## Connection Diagram



# TECHNICAL DATA

|                      |                           |
|----------------------|---------------------------|
| <b>Input Voltage</b> | 0.00 to 10.00V AC         |
| <b>Range</b>         | 0.10 to 10.00V AC         |
| <b>Output</b>        | 1 Relay , 1 C/O (NO-C-NC) |
| <b>Accuracy</b>      | Class 1.0                 |

## Features

- Earth To Neutral Relay Monitoring In 1Ø - 2W And 3Ø-4W System
- Auto/Manual Tripping Reset Facility.
- Trip Reset Via Front Key
- Test Mode Available
- RS - 485 Modbus

## Input

|                              |                   |
|------------------------------|-------------------|
| <b>Voltage</b>               | 0.00 to 10.00V AC |
| <b>Display Voltage Range</b> | 0.00 to 10.00V AC |
| <b>Resolution</b>            | 0.01V AC          |

## Display LED & Keys

|                       |                  |                                           |
|-----------------------|------------------|-------------------------------------------|
| <b>Display</b>        | <b>Voltage</b>   | 3 Digit 7 seg. 0.40"<br>White LED Display |
|                       | <b>Set Value</b> | 3 Digit 7 seg 0.28"<br>Green LED Display  |
| <b>Key</b>            |                  | SET, INC, DEC/RST                         |
| <b>LED Indication</b> |                  | Relay                                     |

## Output

|               |                                 |
|---------------|---------------------------------|
| <b>Relay</b>  | 1 Relay 1C/O (NO-C-NC)          |
| <b>Rating</b> | 5A 250V AC (For Resistive Load) |

## Communication Output RS-485

|                              |                            |
|------------------------------|----------------------------|
| <b>Interface</b>             | RS-485                     |
| <b>Baud Rate</b>             | 4800, 9600,<br>19200,38400 |
| <b>Parity</b>                | None, Odd, Even            |
| <b>Protocol</b>              | Modbus - RTU               |
| <b>Transmission Distance</b> | 500 Meter Maximum          |
| <b>Communication address</b> | 1 to 125                   |

## Trip Setting

|                         |                |
|-------------------------|----------------|
| <b>Earth to Neutral</b> | 0.10 to 10V AC |
|-------------------------|----------------|

## Accuracy

Class 1.0

## Auxiliary Power Supply

|                          |                           |
|--------------------------|---------------------------|
| <b>Power Supply</b>      | 100 to 270V AC/DC,50/60Hz |
| <b>Power Consumption</b> | 3VA @ 230V AC Max         |

### Environmental Characteristics

|                     |                       |
|---------------------|-----------------------|
| Working Temperature | 0 to 55 °C            |
| Storage Temperature | 0 to 55 °C            |
| Relative Humidity   | 95% RH Non-condensing |

### Mechanical Characteristics

|                      |                                |
|----------------------|--------------------------------|
| Mounting Type        | Panel Mount                    |
| Dimension (HxWxD) mm | 90 x 35 x 61.5                 |
| Material             | Body Polycarbonate (PC)        |
| Terminal Screw Size  | M3                             |
| Screw Torque (N.m)   | 1                              |
| Wire Gauge (AWG)     | 28-12                          |
| Weight (Approx) gms  | Unpacked : 130<br>Packed : 160 |