

## Features

- Ten year factory warranty
- Plug in measuring module
- Double insulated high impact polystyrol case
- Termination socket included for surface mounting enabling front or rear connection with optional DIN rail mounting
- Proven circuit designs based on over 15 years of field service in hundreds of varied & demanding applications
- Easy to set calibration scales
- Tolerance to shock & vibration for generator, compressor & mobile applications

## Technical Data

| FREQUENCY RANGES at 110/240VAC |         |
|--------------------------------|---------|
| 2H750-1                        | 45-50Hz |
| 2H750-2                        | 50-55Hz |
| 2H760-3                        | 55-60Hz |
| 2H760-4                        | 60-65Hz |

### RELAY FUNCTION

Pick up over OR pick up under frequency

### SETTING ACCURACY

+/-0.25%

### SENSING SUPPLY

110/240V AC

### SENSING SUPPLY TOLERANCE

-15% to +10% of nominal sensing voltage

### POWER CONSUMPTION

<5VA

### STABILITY

+/-0.25hZ

### HYSTERESIS

+/-0.40Hz (Approximately)

### RESPONSE TIME

30ms

### OUTPUT CONTACTS

2 C/O with 1KV isolation across contacts

### SWITCHING CAPACITY

5 Amp 250V AC resistive  
5 Amp 30V DC resistive

### OPERATING TEMPERATURE RANGE

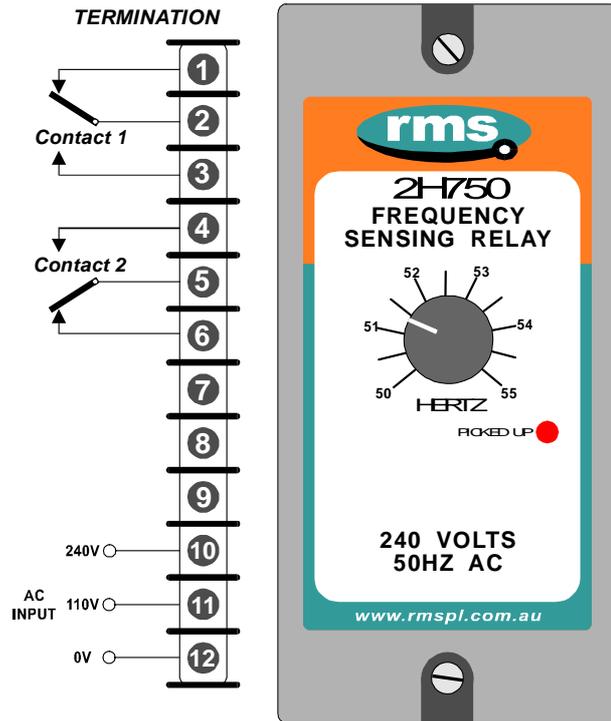
-5 to 55 degrees C.

### INSULATION WITHSTAND

In accordance with IEC 255-5: 2KV RMS between input & frame, output & frame, & output & input. 1.2/50 5KV impulse between each terminal & earth, between circuits not normally connected together & between terminals of the same circuit.

### NOISE IMMUNITY

Withstands the high frequency interference test detailed IEC 255-22-1.



## Description

Made in Australia

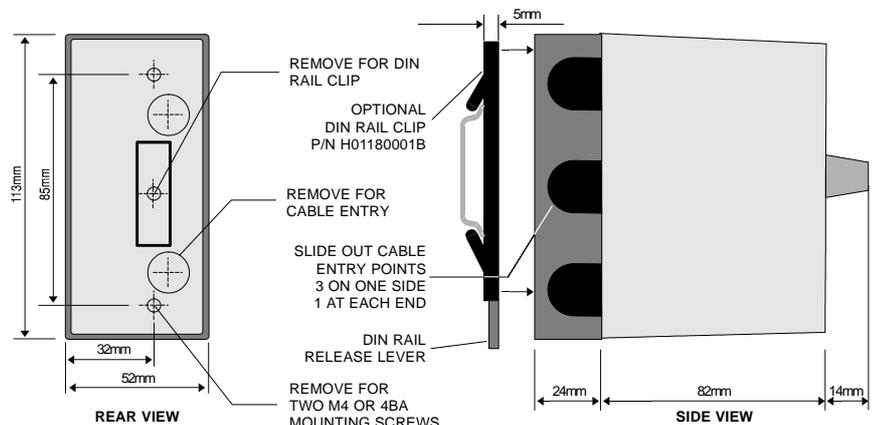
The 2H750 and 2H760 Series relays are sold state instantaneous frequency sensing relays with electromechanical output contacts. Designed to monitor 50Hz (2H750) and 60Hz (2H760) AC supply systems these relays operate from the sensed voltage and do not require a separate auxiliary supply.

The 700 Series range of electronic measuring relays are manufactured as a modular approach to electrical system protection & control. Designed to meet rigid Australian & international specifications the 700 Series provide a flexible, cost effective & extremely reliable solution for a multitude of applications under electrically hostile conditions.

## Application

Both the 2H750 and 2H760 utilise a simple yet effective frequency dependant phase shifting technique to accurately monitor the input supply.

The measuring circuitry keeps the output relay energised while the monitored supply frequency remains above (or below for pick up under frequency option) the set point. The relay contacts will drop out when the sensed frequency falls below this point thus providing fail safe system operation. Indication is given when the relay is energised by a red LED on the front panel.



## **Australian Content**

Unless otherwise stated the product(s) quoted are manufactured by RMS at our production facility in Melbourne Australia. Approximately 60% of our sales volume is derived from equipment manufactured in house with a local content close to 90%. Imported components such as semi-conductors are sourced from local suppliers & preference is given for reasonable stock holding to support our build requirements.

## **Quality Assurance**

RMS holds NCSI (NATA Certification Services International), registration number 6869 for the certification of a quality assurance system to AS/NZS ISO9001-2000. Quality plans for all products involve 100% inspection and testing carried out before despatch. Further details on specific test plans, quality policy & procedures may be found in section A4 of the RMS product catalogue.

## **Product Packaging**

Protection relays are supplied in secure individual packing cardboard boxes with moulded styrene inserts suitable for recycling. Each product & packing box is labeled with the product part number, customer name & order details.

## **Design References**

The products & components produced by RMS are based on many years of field experience since Relays Pty Ltd was formed in 1955. A large population of equipment is in service throughout Australia, New Zealand, South Africa & South East Asia attesting to this fact. Specific product & customer reference sites may be provided on application.

## **Product Warranty**

All utility grade protection & auxiliary relay products, unless otherwise stated, are warranted for a period of 24 months from shipment for materials & labour on a return to factory basis. Repair of products damaged through poor application or circumstances outside the product ratings will be carried out at the customer's expense.

## **Standard Conditions of Sale**

Unless otherwise agreed RMS Standard Terms & Conditions (QF 907) shall apply to all sales. These are available on request or from our web site.



## **Relay Monitoring Systems Pty Ltd**

6 Anzed Court, Mulgrave, Victoria 3170, AUSTRALIA

Tel: 61 3 9561 0266 Fax: 61 3 9561 0277 Email: [rms@rmspl.com.au](mailto:rms@rmspl.com.au) Web: [www.rmspl.com.au](http://www.rmspl.com.au)