

# MODEL 340 VOLTAGE SENSITIVE RELAY

## FEATURES

- ! AC/DC Sensing
- ! Versatile
- ! Low Cost
- ! Plug In

The Model 340 is a general purpose module for voltage sensing applications. The relay energises when the input voltage exceeds the set point and de-energises when it falls 10% below the set point. An external resistor may be fitted to increase this hysteresis if required. Fitting a link makes the hysteresis 100% and the relay latches. In this condition the relay can only be de-energised by removing power.

The input accepts AC or DC (polarised) input voltages and the scale is calibrated directly in volts. Note that for AC inputs the module is calibrated for AC peak values (RMS x 1.414).

This unit may also be used for current sensing by the addition of an external shunt resistor.

A large safety margin on input overloads prevents damage if the maximum set points are exceeded. Refer to the figure in brackets alongside the range in the specification table.

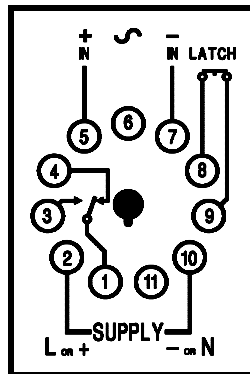
The standard relay contacts are SPDT 10A however a double pole option (Model 342) with 5A contacts is available.

Reversed relay action is available to order (Model 341 SPDT and 343 DPDT).

LEDs for power and relay are fitted as standard.



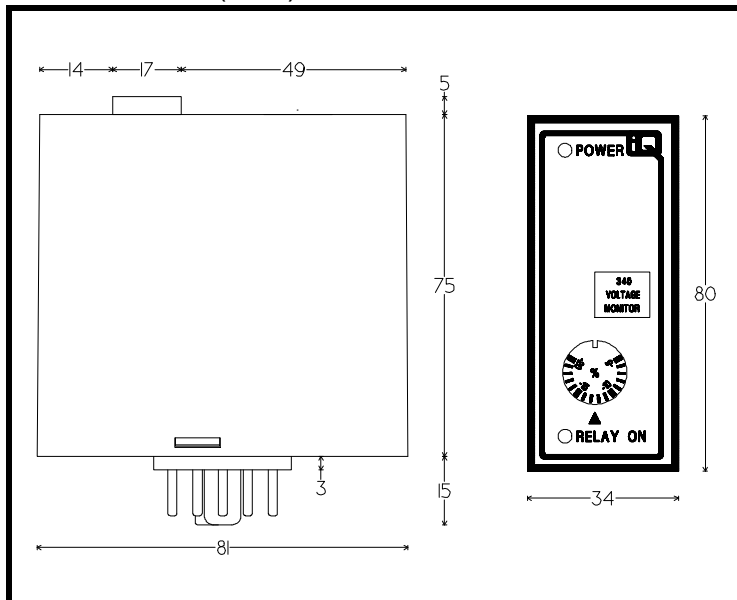
## CONNECTIONS



## SPECIFICATIONS

RANGES	0.1 - 6 Volts (30V) 0.4 - 20 Volts (50V) 1 - 60 Volts (100V) 4 - 200 Volts (300V) 12 - 600 Volts (750V)
SPDT (Max.)	10A 380VAC 2500VA 10A 30VDC
DPDT (Max.)	5A 250VAC 1250VA 5A 30VDC
POWER SUPPLY Options	12V DC 24V DC 24V AC 110V AC 220V AC
POWER CONSUMPTION	DC 1.5W approx. AC 3VA approx.
TEMPERATURE LIMITS	-5/+60°C
HUMIDITY LIMITS	0-90% RH non condensing
BASIC ACCURACY	Setting 5% Typical Repeat 0.5% Typical
HYSTERESIS	10% Typical
RESPONSE TIME	10mS Pull In 200mS Drop Out

## DIMENSIONS (mm.)



21 Smuts Avenue  
Cnr. Loch Avenue  
Loch Vaal  
Vanderbijlpark, 1911  
S26°44'11.3" E027°42'32.0"  
Cell: 083 525 1826  
E-mail: iq@ph.co.za  
<http://www.iqinstruments.co.za>

**IQ INSTRUMENTS (Pty) Ltd**