

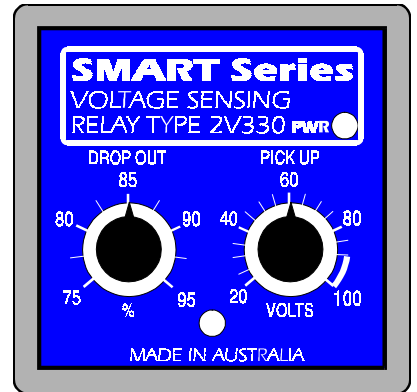
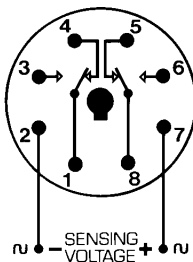
SMART Series AC / DC Voltage Sensing Relay

Features

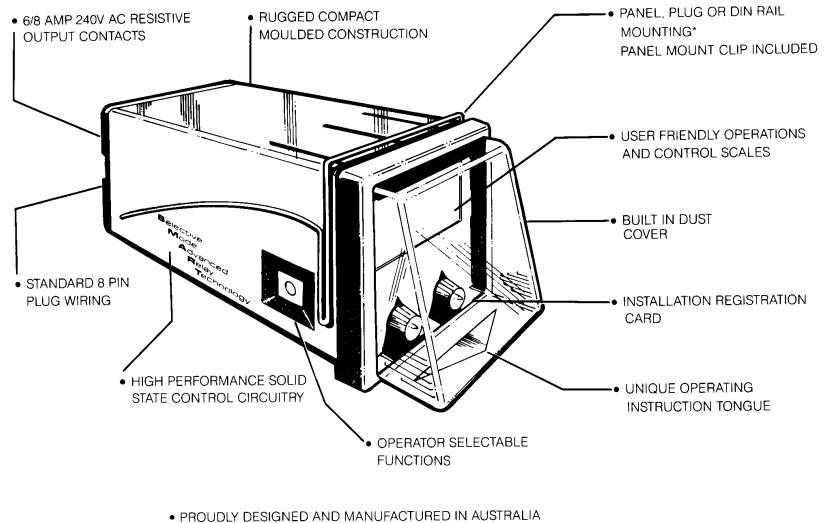
- Power supply derived from sensed voltage
- Selectable High/Low range scales:
- Selectable voltage pick up scales:
High 100-260 Volts
Low 20-100 Volts
- Independent relay drop out selection
Drop out voltage may be independently selected over a fully adjustable range between 75% and 95% of the selected pick-up voltage.
- Selectable AC/DC operation
- Selectable Fast/Slow relay response
Nuisance tripping resulting from inrush and/or momentary voltage drops can be avoided by selecting SLOW relay response.
- Selectable Latching/Non-Latching Contacts
The relay contacts can be set to LATCH ON when the pre-set pick up voltage is reached. To reset power must be removed or select NON-LATCHING. In NON-LATCHING mode the relay contacts automatically reset.
- Two 6A 240V changeover output contacts
- Relay status pick up (Red) indication
- Power on (Green) indication
- Standard wiring configuration
Output wiring meets the international standard for 8 pin plug-in relays ensuring compatibility with most existing installations
- Made in Australia

Application

The SMART Series Voltage Sensing Relay is a powerful and versatile voltage monitoring relay designed for industrial applications. The one unit can be used to sense any voltage AC or DC between 20 and 260 volts. There is no need for an auxiliary supply to drive the relay as power is derived from the sensed voltage source. Accurate control scaling ensures precise pick up and drop out voltage selection.



Dimensions: 54(H) x 54(W) x 105(L)mm
Panel mount cut out: 50 x 50mm



Operation

Made in Australia

The four (4) mode selection switches located on the side of the SMART Series case make the 2V330 suitable for a wide range of voltage monitoring and supervisory applications. The following notes should be used as a guide to select the appropriate operating mode. The dust cover must be pulled out to access the mode switches.





Technical Data

VOLTAGE SENSING RANGES

Low 20-100V AC or DC
High 100-260V AC or DC

The SMART Series 2V330 relay is a **FAIL SAFE** monitoring device as it derives its power source from the supervised voltage.

MEASURING ACCURACY

±5% of maximum scale setting

DROPOUT SETTING RANGE

75% to 95% of pickup setting

INPUT SUPPLY VOLTAGE RANGE

20V to 265V AC or DC

POWER CONSUMPTION

Less than 4VA

OPERATE TIME

100ms/500ms approx. (Selectable)

RESET TIME

500 msec. approx.

OPERATING TEMPERATURE RANGE

-5 to 55 Degrees Celsius

POWER SUPPLY STATUS

Green LED indicates power available

RELAY ENERGISATION STATUS

Red LED indicates PU (Relay pick up)

DIELECTRIC STRENGTH

2kV RMS (between input and output)

OUTPUT RELAY

2 changeover contacts

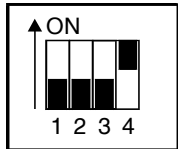
CONTACT RATING

5A/240V AC Resistive 1200 VA maximum
6A/24V DC Resistive 150 W maximum

OPERATING LIFE

Mechanical: 20X10⁶ operation minimum
Electrical: 1 x 10⁶ operations minimum

MODE SELECTION SWITCHES



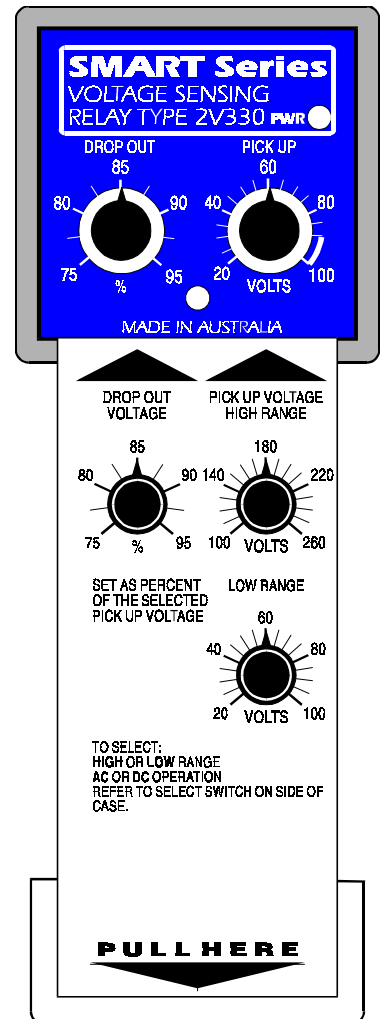
SWITCH 1

ON	AC	Select for measuring AC Voltages
OFF	DC	Select for measuring DC Voltages

SWITCH 2

ON	LATCHING	Output relay contact is latched when sensed voltage exceeds pre-set pick up value. To reset supply voltage must be below pre-set pick up value and momentarily (5 sec approx.) interrupted.
OFF	NON-LATCHING	Relay contacts are automatically reset when sensed voltage falls below pre-set drop out value.

2V330 Controls



SWITCH 3

ON	HIGH RANGE	Pick up voltage 100 to 260 Volts
OFF	LOW RANGE	Pick up voltage 20 to 100 Volts.

Note: An accurately calibrated scale for both pick up ranges is provided on the pull out instruction tongue. The fully adjustable drop out voltage is as a percentage (75-95%) of the selected pick up voltage.

SWITCH 4

ON	SLOW RESPONSE TIME	(500 m Sec approx) may be selected to avoid nuisance tripping of the relay resulting from transient voltage fluctuations which induce no detrimental effect to the installation.
OFF	FAST RESPONSE TIME	(100 m Sec approx) may be selected to isolate the supply to avoid damage to sensitive equipment.



AS/NZS ISO9001-94
REGISTRATION
6869

QUALITY
MANAGEMENT
SYSTEM
ISO9001 NATA CERTIFIED