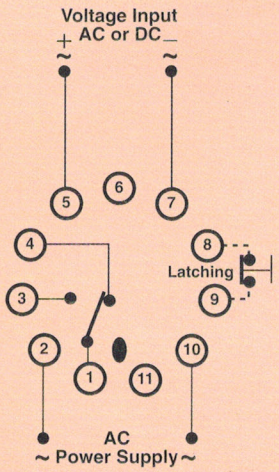
Wiring and Connection

Power Supply: to be connected to pin 2 (phase/positive) and 10 (neutral/negative).

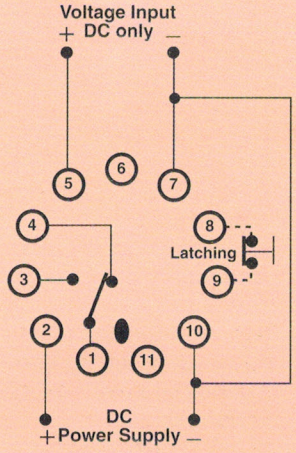
Relay Contacts: to be connected:
1 + 3 normally open
1 + 4 normally closed.

Latching: Latching to be enabled by interconnecting pin 8 and pin 9 (eg. push to open reset button).



APPLICATION 1

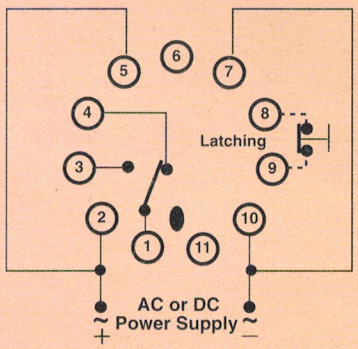
AC/DC voltage sensing, AC supply. Connect the voltage to be monotored to pin 5 and pin 7. For DC monitoring, the polarity must be observed (pin 5 positive, pin 7 negative).



APPLICATION 2

DC voltage sensing, DC supply. Connect the voltage to be monotored to pin 5 (positive) and pin 7 (negative). Link pin 7 and pin 10.

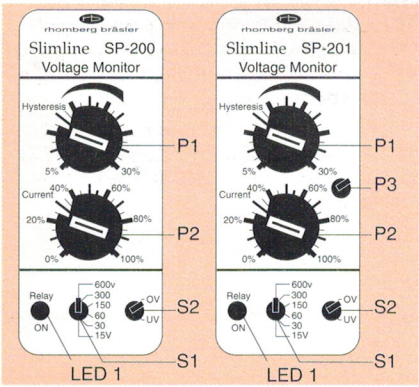
NB: For DC supply, the voltage input and power supply share a common negative (pin 7 and pin 10). There is, therefore, no galvanic isolation



APPLICATION 3

AC/DC voltage, monitoring own supply voltage. Connect the power supply to pin 2 and pin 10. On DC supply observe polarity. Interconnect pin 5 and pin 2. Interconnect pin 7 and pin 10.

Description of Controls



P1: **Hysteresis** ie. the difference between the tripping point and the recovery point is set between 5% and 30 % on P1. (Hysteresis relates to the set point of P2)

P2: **The Voltage Threshold** (tripping point) is adjusted on P2.

P3: **Adjustable Response Delay** from 0,1 to 10 seconds (SP-201).

S1: **The Voltage Range** is set on S1.

S2: **Function Selection** is provided by S2. If set to "OV" the unit operates as over-voltage detector. If set to "UV" the unit operates as an under-voltage detector.

LED 1: The LED illuminates to indicate that the relay is energised. The LED will be off if the unit registers a fault condition (over-voltage/under-voltage) or the power supply to the unit is interrupted.

Technical Specification

Power Supply:
AC: Supply voltage: 12, 24,110, 230, 400,415, 525V ±15%
Isolation (current input to power supply): 2kV
Power consumption: 3 VA (approx.)
6VA for 415, 525V (approx.)
DC: Supply voltage: 10-30, 48, 60, 110V ± 15%
Isolation: no galvanic isolation.
Power consumption : 100mA (10-30V),
30mA for 48V and higher

Voltage input:
Repetitive accuracy: 1%
Hysteresis : 5% to 30% (adjustable)

Voltage input (cont.):

RANGE	INPUT IMPEDANCE	MAXIMUM INPUT VOLTAGE
0 – 15V	500k Ohm	700V
0 – 30V	500k Ohm	700V
0 – 60V	500k Ohm	700V
0 – 150V	500k Ohm	700V
0 – 300V	500k Ohm	700V
0 – 600V	500k Ohm	700V

Response delay: SP-200 - 1 second.
SP-201 - adjustable from 0,1 to 10 seconds (other ranges on special order).
Latching disabled during power-up: approx.10 seconds

Additional Slimline technical information on page 69