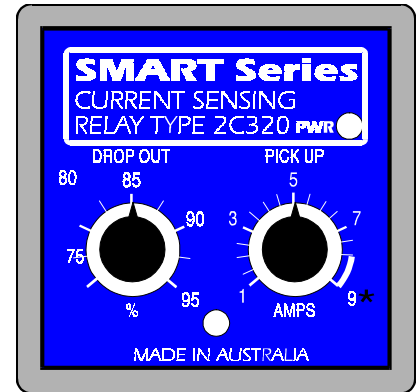
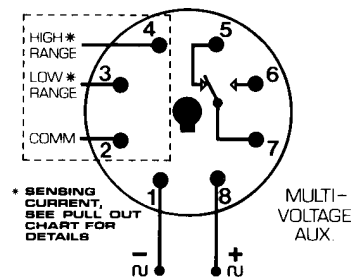


SMART Series AC / DC Current Sensing Relay
Features

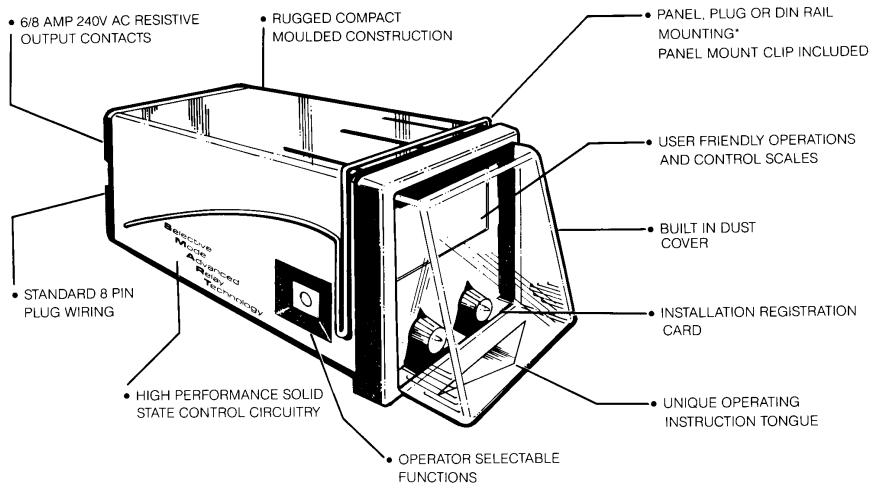
- Multi-voltage auxiliary supply
- Fully isolated supply and sensed current
- Selectable AC/DC operation
- Selectable fast/slow relay response
 - Built in time delay option for instantaneous pickup or delays of 1 or 5 seconds (approx.)
- Selectable latching/non-latching contacts
 - The relay contacts can be set to LATCH ON when the pre-set pick up current is reached
 - In NON-LATCHING mode the relay contacts automatically reset
- 8A 240V changeover output contact
- Relay status pick up (red) indication
- Power on (green) indication
- Selectable high/low range scales
 - HIGH 1.0 - 9.0 Amps
 - LOW 0.2 - 1.8 Amps
- Independent relay drop out selection
 - Drop out current may be independently selected over a fully adjustable range between 75% and 95% of the pick up current
- 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 Current Sensing Relay is designed to accurately monitor both AC and DC currents ranging between 0.2 and 9.0 Amps. Any auxiliary voltage from 20 to 265 Volts AC or DC can be used to power the relay. Full isolation between auxiliary supply and sensed current is provided ensuring correct operation for a broad range of applications.



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


Operation

Made in Australia

The four (4) mode selection switches located on the side of the SMART Series case make the 2C320 suitable for a wide range of current 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

CURRENT SENSING RANGES

RANGE (Amps)	OVERLOAD (Amps)	
Low 0.2-1.8	Continuous	1s
High 1.0-9.0	5	10
	10	25

MEASURING ACCURACY

± 5% of maximum scale setting

DROPOUT SETTING RANGE

75% to 95% of pickup setting

AUXILIARY SUPPLY VOLTAGE RANGE

20V to 265V AC or DC

POWER CONSUMPTION

Less than 3VA

OPERATE TIME

1s/5s approx (Selectable)

RESET TIME

5 sec approx

OPERATING TEMPERATURE RANGE

-5 to 55 Degree C

POWER SUPPLY STATUS

Green LED indicates power available

RELAY ENERGISATION STATUS

Red LED indicates PU (Relay pick up)

DIELECTRIC STRENGTH

1kV RMS circuit to circuit for 1 minute (between input and output)

OUTPUT RELAY

1 changeover contact

CONTACT RATING

8A/240V AC Resistive 1800VA max.
8A/24V DC Resistive 200W max.

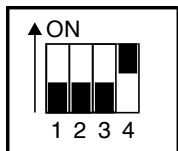
MECHANICAL LIFE

20 x 10⁵ operations min.

ELECTRICAL LIFE

1 x 10⁵ operations min.

MODE SELECTION SWITCHES



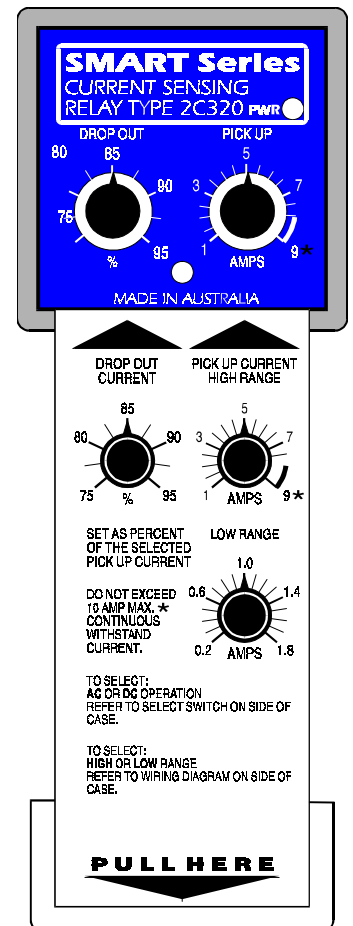
SWITCH 1

ON	AC	Select for measuring AC currents
OFF	DC	Select for measuring DC currents

SWITCH 2

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

2C320 controls



PICK UP CURRENT SCALE SELECTION

An accurately calibrated current scale for both pick up ranges is provided on the pull out instruction tongue.

HIGH The sensed supply must be connected in series with Pins 2 & 4.

LOW The sensed supply must be connected in series with Pins 2 & 3.

The auxiliary voltage supply required to power the relay may be any voltage AC or DC over the range 20 to 260 volts. This gives the additional protection of being able to perform without the need of a regulated supply. Ideal for use on battery supplies etc.

SWITCH 3

ON	DELAY IN	Select to delay response of relay contacts after pre-set pick up current is reached. This mode is to be used in conjunction with Switch 4.
OFF	DELAY OUT	Select for instantaneous (20mSec approx) response of relay contact once pre-set pick up current is reached.

SWITCH 4

ON	1 SEC	With Switches 3 and 4 ON a 1 second delay in relay response is selected.
OFF	5 SEC	With Switch 3 ON and Switch 4 OFF a 5 second delay in relay response is selected.

NOTES: Delayed relay contact response is most useful to avoid nuisance tripping caused by high inrush or start up



QUALITY
MANAGEMENT
SYSTEM
ISO9001 NATA CERTIFIED

AS/NZS ISO9001-94
REGISTRATION
6869