

# MODEL 1800 LINEAR INTEGRATOR

## FEATURES

- ! Made in South Africa
- ! Easy Installation
- ! Choice of Signals
- ! Compact Size
- ! Versatile
- ! Low Cost
- ! Plug In

The model 1800 is designed to accept a current (or voltage) input and convert this to a train of pulses whose frequency is linearly related to the input amplitude.

Although designed primarily for 4-20mA inputs, a number of input options are available as standard, and many special ranges can be provided to customer requirements.

A standard 11 pin plug-in format ensures ease of installation and maintenance.

Typical applications include integration for flow monitoring, and voltage to frequency conversion.

Two basic variations are available, one having a relay output with a 250mSec pulse duration for low frequency applications (below 1 pulse/sec) and the other having an optically coupled square wave output for high frequency applications (up to 20KHz).

A 10 position rotary switch and trimmer provide an adjustment range of better than 1000:1.

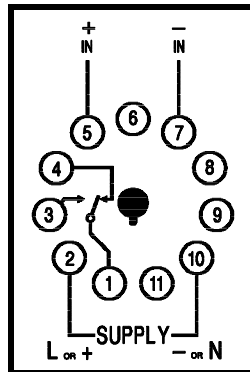
The basic linearity of this unit is better than 0.1% of span.

Pre-calibration to customer requirements is available at no additional cost.

This unit is only available for AC supplies.



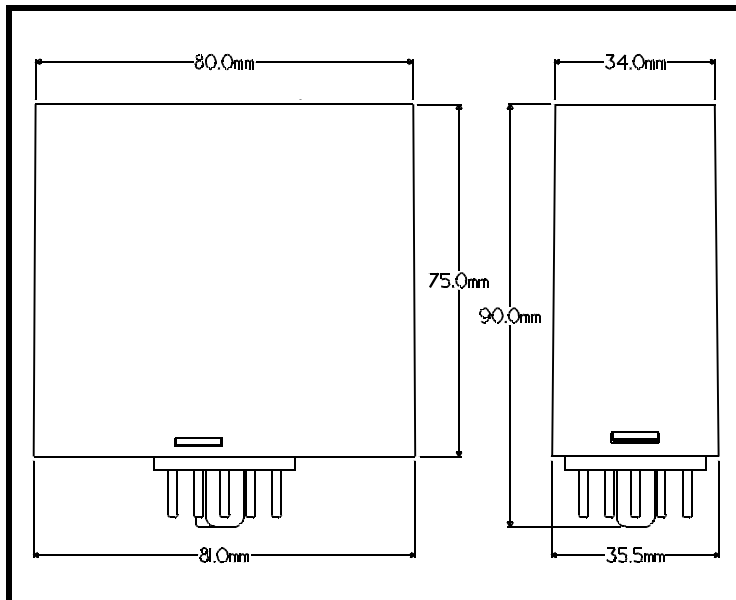
## CONNECTIONS



## SPECIFICATIONS

INPUT SIGNAL Options	DC Volts DC mA To customer order
OUTPUT SIGNAL Options	SPDT Relay 1A @ 110V AC From 1 pulse per 1000secs to 1 pulse per sec at span.
Relay Output	
OUTPUT SIGNAL Options	NPN opto transistor 10mA @ 30V DC From 1Hz to 20KHz at span.
Opto Output	
POWER SUPPLY Options	110V 50 Hz. 230V 50 Hz.
POWER CONSUMPTION	3VA approx.
TEMPERATURE LIMITS	-5/+60degC.
HUMIDITY LIMITS	0-90% RH non condensing
BASIC ACCURACY % of span	< +/- 0.2% < +/- 0.1% linearity

## DIMENSIONS



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