

PRECISION INTEGRATOR

MODEL **VFC**

CONVERTS DC INPUT TO TIME-INTEGRATED PULSE



FEATURES

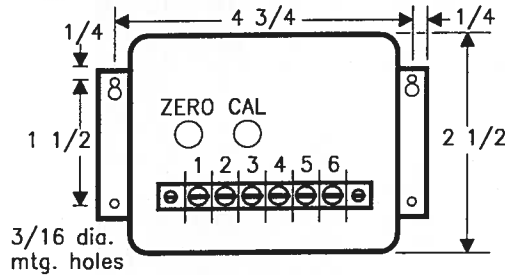
- Provides relay closure count which is proportional to the time integral of the input signal.

APPLICATIONS

- Designed for use with dc, pulsating dc, or dc with AC components.

INPUT RANGE	CLOSURE RATE (COUNTS/HR.)	PART NUMBER
0 to 50mV	0 to 10000	VFC-010
0 to 100mV	0 to 10000	VFC-020
0 to 150mV	0 to 10000	VFC-030
0 to 250mV	0 to 10000	VFC-040
0 to 1mA	0 to 10000	VFC-050
0 to 10V	0 to 10000	VFC-060
4-20mA	0 to 10000	VFC-070
0-5V	0 to 10000	VFC-080

CUSTOM COUNT RATES AVAILABLE-CONSULT FACTORY



Maximum height 4 3/8
CASE DIMENSIONS (INCHES)

MODEL VFC SPECIFICATIONS

INPUT

VOLTAGE: See table
OVERLOAD: 10Vdc max.

IMPEDANCE (Ohms):

Voltage input models: Greater than 1M

Current input models: Less than 200

dc with up to 100% ripple at 120 Hz. or higher.

FREQUENCY:

OUTPUT

RELAY: N/O SPST, 120V, 0.5A contact rating

RELAY CLOSURE PERIOD: 200 milliSeconds

ACCURACY: $\pm 0.25\%$ F.S.

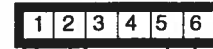
LINEARITY: $\pm 0.1\%$ F.S.

TEMPERATURE EFFECT (-10° to 60°C): $\pm 0.5\%$

INSTRUMENT POWER (STD.): 115VAC $\pm 10\%$, 50-400 Hz.

Optional 220VAC instrument power-Add suffix "-22"

CONNECTION DIAGRAM



OUTPUTS INPUT

Internal output relay connection at terminals 1, and 2.
AC Instrument power-terminals 3, 4.

TRANSMITTER OUTPUT CONVERTER

MODEL **PI**

CONVERTS 4-20mA TO 0-1mA, OR 0-1V OUTPUT

INPUT	OUTPUT	PART NUMBER
4-20mA	0 to 1mA	PI8300B
4-20mA	0 to 1Vdc	PI8300D

NO EXTERNAL POWER REQUIRED

MODEL PI SPECIFICATIONS

INPUT

CURRENT: See table

LOAD ON INPUT: 400 Ohms

OUTPUT

PI8300B: 0-1mA

PI8300D: 0-1Vdc

OUTPUT LOADING (Ohms):

0-1mA: 0-4K

0-1V: 100K min.

$\pm 0.25\%$ F.S.

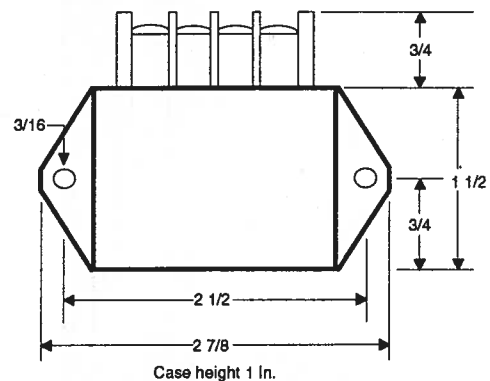
ACCURACY

Includes effects of linearity.

TEMPERATURE EFFECT (-20° to 65°C): $\pm 0.005\%$ °C

GROUNDING: Converter is non-isolated. Ground either input or output, not both. If the 4-20mA loop is grounded, float both input and output.

CASE DIMENSIONS (INCHES)



CONNECTION DIAGRAM



OUTPUT INPUT