**VIEWPOINT**
SYSTEMS

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## Features

+ Dual Fully Independent Channels

+ ±10 V Inputs

+ Bipolar Current Outputs

+ 24 VDC Powered (18-36 VDC)

+ Outputs are Diode Protected

+ DIN Rail Enclosure

+ Read-back of Output Current

## Applications

+ Valve Driver

+ Precision Current Driven Applications

+ Voltage to Current Conversion

## General Description

The 64-VCC precisely converts voltage to current.  The unit can be placed in-line with a data acquisition system to achieve outstanding conversion accuracy for precise movements in valves or motors.  The unit includes a unique current feedback measurement output to precisely monitor actual current in critical applications.
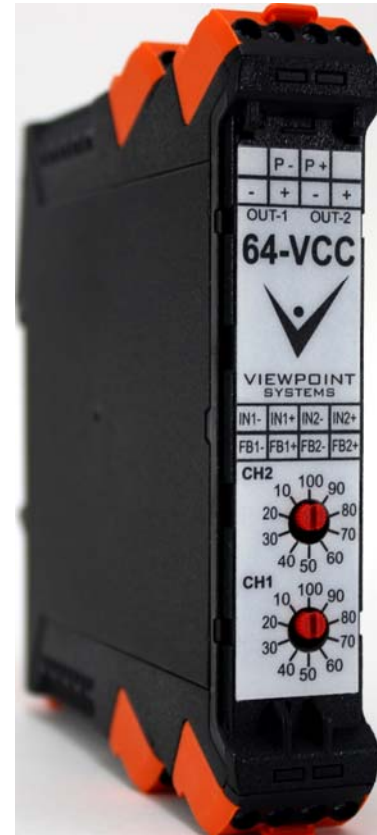
## Key Specifications

+ Full scale current outputs from ±10 mA to ±100 mA (switch selectable)

+ ±0.05% Calibrated Accuracy

+ Drives up to 100 Ω at 100 mA

+ Current Measurement Feedback accuracy up to ±0.05% calibrated.

# 64-VCC Specifications

## Input (Channel 1, 2)

Input Range: ±10 Volts

Absolute Max input: ±20 Volts

Input Impedance : 100 kΩ

## Outputs (Channel 1, 2)

Current Outputs: 0 to ±10 mA up to 0 to ±100 mA , Switch selectable in 10 mA Full scale steps. (Diode Protected)

Current Feedback Outputs:  0 to ±10 V  represents 0 to ±FS Current Output

Output (-) cannot be tied to common of input.

## Power

Input: 24 VDC Nominal (18-36 VDC Range)
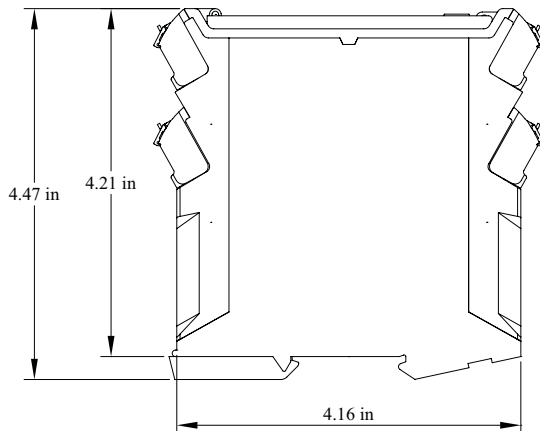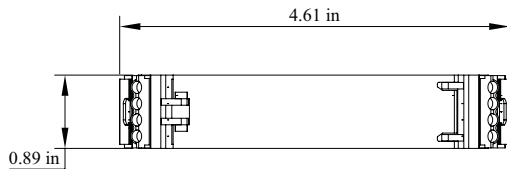
Power Consumption: 17 Watts

Isolation: 1500 VDC, Power to Input or Output

## Environment

0 to 70 °C operating,  -40 to 85 °C storage

## Options

Higher bandwidth, +/- 15 VDC supplies (consult factory)

## Output Accuracy (%Reading)

Un-Calibrated Overall: ±1.5%, Calibrated*: ±0.05%

## Current Feedback Accuracy (%Reading)

Un-Calibrated: ±2%, Calibrated*: ±0.05%

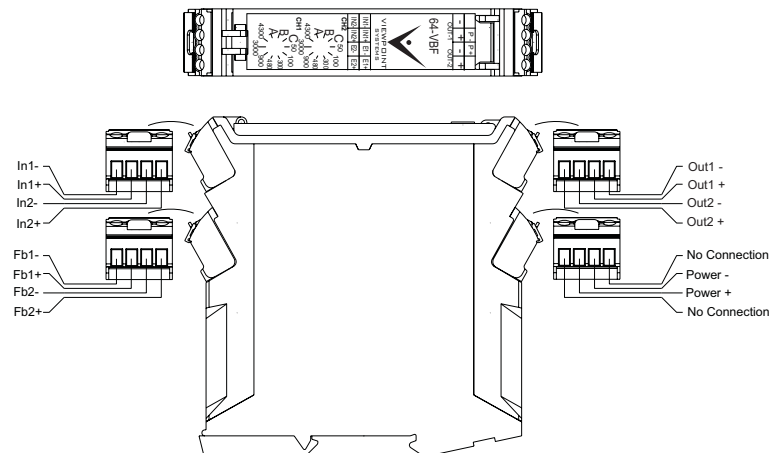* Calibration is done externally to unit (in user software)

## Bandwidth (BW)

| Output = 10mA | | Output = 100mA | |
|---|---|---|---|
| RLoad (Ω) | 3dB BW (Hz) | RLoad (Ω) | 3dB BW (Hz) |
| 1.17k | 4.35k | 100 | 6.37k |
| 550 | 8.86k | 50 | 10.7k |
| 117 | 24.9k | 10 | 24.2k |
| 12 | 31.9k | 1 | 31.8k |

## Drive Capability

| Output Current (mA) | Max Vout (V) | Max Load Resistance (Ω) |
|---|---|---|
| 100 | 9.8 | 98 |
| 90 | 10.0 | 111 |
| 80 | 10.1 | 126 |
| 70 | 10.3 | 147 |
| 60 | 10.5 | 174 |
| 50 | 10.6 | 212 |
| 40 | 10.8 | 269 |
| 30 | 11.0 | 366 |
| 20 | 11.2 | 558 |
| 10 | 11.3 | 1135 |

4.61 in

0.89 in

4.47 in

4.21 in

4.16 in

In1-
In1+
In2-
In2+

Fb1-
Fb1+
Fb2-
Fb2+

64-V/BF

Out1 -
Out1 +
Out2 -
Out2 +

No Connection
Power -
Power +
No Connection

**Wiring Diagram**

Rev A1