# **OVERVIEW**

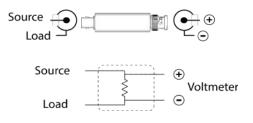
Verivolt Encore is part of the Verivolt family of current to voltage transducers designed to measure isolated and ground currents. The main focus of the Encore family is to ease and accelerate measuring the output current from low voltage current sources as well as isolated current transformers (CT). Particular attention was paid on providing a solution that minimizes cost and improves overall performance on distributed systems such as substations, building monitoring, power distribution systems, etc. The Encore series covers the ranges of  $\pm 0.1A$ ,  $\pm 1A$ ,  $\pm 2A$ ,  $\pm 3A$ ,  $\pm 4A$  and  $\pm 5A$  with customizable bandwidth of up to 40kHz and 0.2% accuracy

# **SPECIFICATION**

Eletronical	0.1A	0.5A	1A	2A	3A	4A	5A
Scaling Factor (1V output voltage)	1:1	5 : 1	10:1	20:1	30:1	40:1	50:1
Overload Current (60Hz sinewave for 10s)	0.5Arms	2.5Arms	5Arms	10Arms	15Arms	20Arms	25Arms
Input impedance at 60Hz	1 Ω	200 mΩ	100 mΩ	50 mΩ	333 mΩ	25 mΩ	20 mΩ
Output impedance	2k Ω						
Accuracy 2 g/ (3 g)	±0.2% (±0.4%)						
Bandwidth (-3dB point)	40kHz						
Input-Output non-linearity	< 40 ppm/V						
Output voltage	±100mV						
Gain temperature drift	±25 ppm/°C						
Phase mismatch	< 0.05°/kHz						
Output type	Single-ended signal						
Output impedance	< ±10µV						
Output connector	BNC (Plug)						

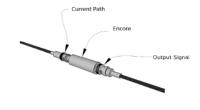
### HARDWARE DESCRIPTION

Verivolt Encore 5c operates as a current to voltage shunt that generates a  $\pm 100$ mV range signal for it's nominal input current range. This signal can then be processed by a computer based measurement platform. In conjunction with the EasyConnect family, the Encore is the ideal solution for high channel density applications



Functional Diagram of Encore

Environmental	
Operating temperature	– 35 to 70 °C
Storage temperature	– 40 to 80 °C



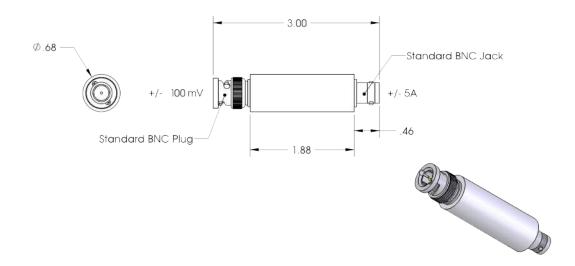
Mounting example of Encore

Due to its compact size and shape, the Encore can be easily mounted anywhere between the signal source and the data acquisition system. The versions up to 5A may even be used inline with the cable and not require any mounting at all. All can be secured to fixtures using cable ties.

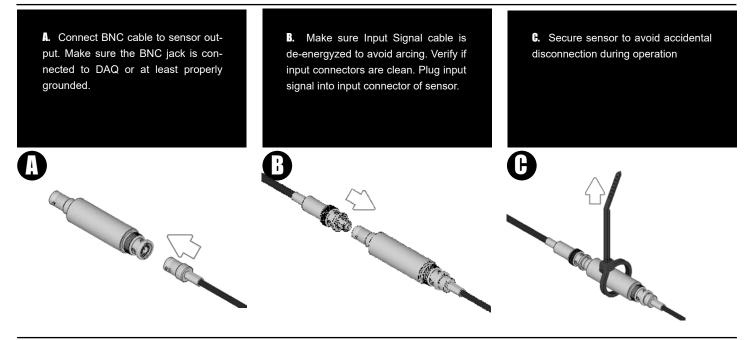
# Merchanical Input connector (1-Pin Coaxial) BNC Outer Dimensions (Cylindrical shape) 0.68°Ø x 3.0° Weight 34 g (1.2 oz)



(1) Form factor can vary for customized solutions.



### HARDWARE **CONFIGURATION**



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THIS SENSOR IS NOT A SAFETY DEVICE AND IS NOT INTENDED TO BE USED AS A SAFETY DEVICE. This sensor is designed only to detect and read certain data in an electronic manner and perform no use apart from that, specifically no safetyrelated use. This sensor product does not include self-checking redundant circuitry, and the failure of this sensor product could cause either an energized or de-energized output condition, which could result in death, serious bodily injury, or property damage.