



DynAmp

SI-42000 Series

High Voltage Isolator



Description

The SI-42000 series are highly accurate universal isolators for high voltage AC / DC applications ranging from 10V to 3600V. The output signal is well suited for measurement of both sinusoidal and non-sinusoidal AC inputs.

Output signal ranges of 0 to 20mA, 4 to 20mA, and 0 to 10V are available. A universal power supply allows the unit to be powered by mains from 20 to 253 V AC/DC.

Application

The SI-42000 series can be used to safely measure, isolate and convert process signals for use by measurement and control instrumentation and other peripheral equipment.

Specifications

Input

Unidirectional	0...10V to 0...3600V
Bi-directional	0...±10V to 0...±3600V
Special Input Ranges:	Consult Factory

Input Resistance 1 to 15MΩ

Input Capacitance < 10 pF

Overload 20% F.S. ±3900V Max.

Output

Unidirectional

Voltage:	0...200mV to 0...10V
Current:	0...1mA to 0...20mA
	4...20mA

Bi-directional

Voltage:	0...±70mV to 0...±10V
Current:	0...±1mA to 0...±20mA
	4...12...20 mA

Special Output Ranges: Consult Factory

General Specifications

Overall Accuracy:	±0.3% RDG. (±0.15% additional charge)
Offset Error:	20µA / 10mV
Frequency Bandwidth:	<5kHz, Optional <10Hz.
Load	
Voltage:	≤10mA (1kΩ @ 10V)
Current:	≤12V (600Ω @ 20mA)
Capacitive Loading:	≤1nF
Mains:	
Universal Power Supply	20 to 253V, 48 to 62Hz or DC
Power requirements	
AC Mains:	2VA
DC Mains:	1.0W

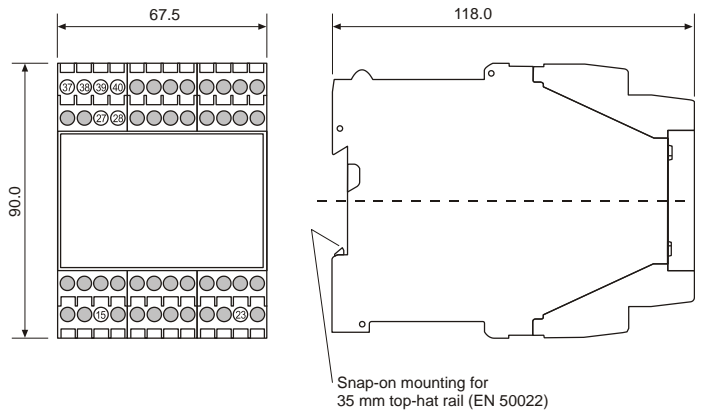
Standards:

Test Voltage:	10kV Input to Output & Pwr Supply 4kV Output to Power Supply
Basic Insulation:	3.6kV Cat. III, Pollution Degree 2 To EN 61010-1

Environmental / Physical:

Operating Temperature:	-10 ... 70° C
Storage Temperature:	-40 to 70° C / -40 to 158° F
Storage Humidity	85%, non-condensing
Protection:	Housing IP40, Terminals IP20
Weight:	Approx 18.0 Oz. (500g)

Physical Configuration



Ordering Information

Complete configuration worksheet BEN090 and submit to DynAmp. An Item number will be provided at time of order.