

# AIM2

## Analog Input to Optically Isolated Analog Output

The AIM2 optically isolates an analog (voltage or current) input signal from its corresponding output signal. It will accept any input signal between 0 and 20 VDC, or 0 and 20 mA, and output any signal within those ranges. The AIM2 has preset or adjustable inputs and preset or adjustable outputs that can be either voltage or current. The current signals on the input or output can be either sink or source. The AIM2 requires one external 24 VAC isolation transformer with floating secondary for power. It has an onboard 24 VAC isolation transformer

to supply power to the isolated output. The AIM2 is field calibratable, however, factory calibration is available upon request for an additional charge. This will speed up installation time for the end user.

**Applications:** Grounded Electrical Actuator Isolation, Florescent Light Dimmer Isolation, Ground Loop Isolation, Variable Frequency Motor Drive Isolation, General Analog Signal Input and Output Isolation

**The AIM2 is covered by ACI's Two (2) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's website, [www.workaci.com](http://www.workaci.com).**

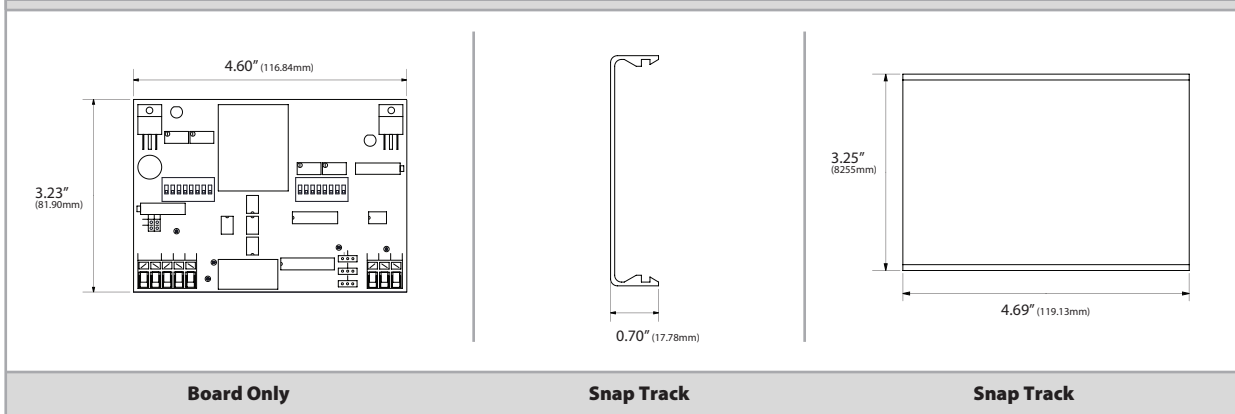
### PRODUCT SPECIFICATIONS

<b>Supply Voltage:</b>	24 VAC (+/- 10%), 50/60 Hz
<b>Supply Current:</b>	200 mA maximum
<b>Input Voltage Signal Preset Ranges:</b>	0-5V, 0-10V, 0-15V, 0-20V, 1-5V, 2-10V, 3-15V, 4-20V, 0-1V
<b>Input Current Signal Preset Ranges:</b>	0-20 mA, 4-20 mA, 0-1 mA
<b>Input Signal Adjustable Voltage Span:</b>	1 VDC (Minimum) to 20 VDC (Maximum)
<b>Input Signal Adjustable Voltage Offset:</b>	From 0 to 20 VDC
<b>Input Signal Adjustable Current Span:</b>	4 mA (Minimum) to 20 mA (Maximum)
<b>Current Offset:</b>	From 0 to 20 mA
<b>Input Voltage Impedance:</b>	9,500Ω
<b>Input Current Impedance:</b>	250Ω +/-1%
<b>Output Voltage Signal Preset Ranges:</b>	0-5 VDC, 1-5 VDC, 0-10 VDC, 2-10 VDC
<b>Output Current Signal Preset Ranges:</b>	0-20 mA, 4-20 mA
<b>Output Signal Adjustable Voltage Span:</b>	1 VDC (Minimum) to 20 VDC +/- 1 VDC (Maximum)
<b>Output Signal Adjustable Voltage Offset:</b>	From 0 to 10 VDC
<b>Output Signal Adjustable Current Span:</b>	0 mA (Minimum) to 20 mA (Maximum)
<b>Output Signal Adjustable Current Offset:</b>	From 0 to 20 mA
<b>Output Voltage Impedance:</b>	5,000Ω
<b>Output Current Impedance:</b>	500Ω
<b>Accuracy:</b>	+/- 3%
<b>Linearity:</b>	+/- 1%
<b>Analog Optical Isolation:</b>	600VAC / 1500 VDC Maximum
<b>Connections:</b>	45° Captive screw Terminal Blocks
<b>Wire Size:</b>	12 (3.31 mm <sup>2</sup> ) to 22 AWG (0.33 mm <sup>2</sup> )
<b>Terminal Block Torque Rating:</b>	0.5 Nm (Minimum); 0.6 Nm (Maximum)
<b>Operating Temperature Range:</b>	35 to 120°F (1.7 to 48.9°C)
<b>Operating Humidity Range:</b>	10 to 95% non-condensing
<b>Storage Temperature:</b>	-20 to 150°F (-28.9 to 65.5°C)
<b>Snaptrack Material:</b>	Polyvinyl Chloride (PVC)
<b>Snaptrack Flammability Rating:</b>	UL94 V-0
<b>Product Dimensions:</b>	(L) 4.60" (W) 3.23" (H) 1.20" (116.84 x 81.90 x 30.48 mm)
<b>Product Weight:</b>	0.525 lbs. (0.238 Kg)
<b>Agency Approvals:</b>	RoHS2, WEEE





**DIMENSIONAL DRAWING**



**STANDARD ORDERING**

Model # Example: **AIM2** -OR- **101794**

Model #	Item #	Description
<b>AIM2</b>	101794	Analog Input to Optically Isolated Analog Output

**Note\*:** An external 24 VAC isolation transform is required (see below)

**ACCESSORIES**

Model # Example: **LE105** -OR- **102553**

Model #	Item #	Description
<b>LE105</b>	102553	Primary Voltage: 24 VAC, 50/60 Hz   Secondary Voltage: 24 VAC (VA: 40) (Hubs: 1) (Manual Reset: TC)
<b>A/DRC 4.69 X 3.25</b>	142620	DIN Rail Adapter Kit

