

AIM1.1

Analog Input to Optically Isolated Analog Output

The AIM1.1 optically isolates an analog (voltage or current) input signal from its corresponding output signal. The factory calibrated output is linear and proportional (1:1 ratio) to the input signal. The AIM1.1 will accept a 0 to 5 VDC, 0 to 10 VDC, or 0 to 20 mA input span and output any one of those same ranges. It requires one external 24 VAC isolation transformer with floating secondary for power and has an onboard 24 VAC isolation transformer to supply the isolated output.

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 AIM1.1 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.

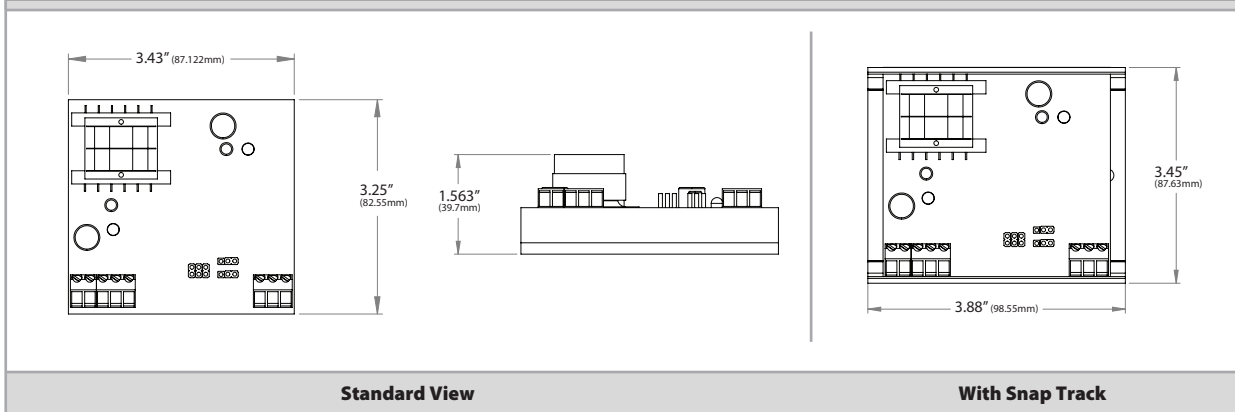
PRODUCT SPECIFICATIONS

Supply Voltage:	24 VAC (+/- 10%), 50/60 Hz
Supply Current:	250 mA Maximum
Input Voltage Signal Range (@ Impedance):	0 to 5 VDC @ 20,000Ω, 0 to 10 VDC @ 20,000Ω
Input Current Signal Range (@ Impedance):	0-20 mA @ 249Ω
Output Voltage Signal Range (@ Impedance):	0 to 5 VDC @ 5,000, 0 to 10 VDC @ 5,000
Output Current Signal Range (@ Impedance):	0-20 mA (Source or Sink) @ 500Ω (Maximum Load Resistance)
Voltage Mode Accuracy:	+/- 1%
Current Sink Mode Accuracy:	+/- 2%
Current Source Mode Accuracy:	+/- 1%
Linearity:	+/- 1%
Connections:	45° Captive screw Terminal Blocks
Wire Size:	12 (3.31 mm ²) to 22 AWG (0.33 mm ²)
Terminal Block Torque Rating:	0.5 Nm (Minimum); 0.6 Nm (Maximum)
Operating Temperature Range:	35 to 120°F (1.7 to 48.9°C)
Operating Humidity Range:	15 to 90% non-condensing
Storage Temperature:	-20 to 150°F (-28.9 to 65.5°C)
Snaptrack Material:	Polyvinyl Chloride (PVC)
Snaptrack Flammability Rating:	UL94 V-0
Product Dimensions:	(L) 3.25" (W) 3.42" (H) 1.50" (82.55 x 86.87 x 38.1 mm)
Product Weight:	0.425 lbs (0.193 kg)
Agency Approvals:	RoHS 3 Directive 2015/863/EU, WEEE





DIMENSIONAL DRAWING



STANDARD ORDERING

Model # Example: **AIM1.1** -OR- **145185**

Model #	Item #	Description
AIM1.1	145185	Analog Input to Optically Isolated Analog Output

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

ACCESSORIES

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

Model #	Item #	Description
LE105	102553	Primary Voltage: 24 VAC, 50/60 Hz Secondary Voltage: 24 VAC (VA: 40) (Hubs: 1) (Manual Reset: TC)
A/DRC 3.88 X 3.25	142621	DIN Rail Adapter Kit