



AAR

Analog to 2 Relay Outputs

The AAR is controlled by a single analog input signal with two potentiometers controlling each output relay. The two 10 amp output relays can be independently set to fixed or adjustable deadband. "Fixed", the relay will turn "ON" at the level set by the Low pot and will turn "OFF" at a fixed 3% of the input signal below the turn-on level. "Adjustable" allows a flexible range of deadband adjustment using both the High and Low potentiometer. The edge-connector feature allows signal and power connections to be extended to the next board. This allows the installer to wire the first unit, then slide additional units together by plugging into a power, and

signal bus without the need to strip and terminate additional wires. The AAR is field calibratable, however, factory calibration is available upon request for an additional charge. Relay trip points can be factory calibrated, saving installation time and expense.

Applications: Level Indication, Digital Output Expansion, Alarms, Staging and Sequencing

The AAR 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.

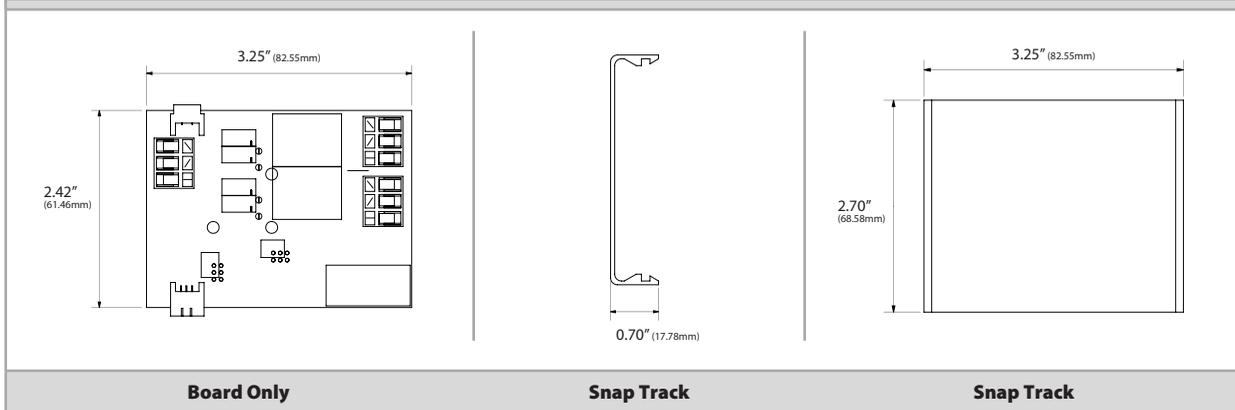
PRODUCT SPECIFICATIONS

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|--|--|
| Supply Voltage: | 24 VAC or 24VDC, (+/- 10%), 50/60 Hz |
| Supply Current: | 45 mA maximum |
| Input Voltage Signal Range (@ Impedance): | 0 to 12 VDC @ 1M Ω , 0 to 24 VDC @ 20,000 Ω |
| Input Current Signal Range (@ Impedance): | 0-20 mA @ 499 Ω |
| Deadband: | Fixed or Adjustable – Jumper Selectable |
| Digital Output Type: | Two SPDT Form "C" Relays |
| Relay Contact Rating: | 10A @ 120 VAC / 24VAC, 5A @ 240VAC |
| Relay Electrical Life: | 100,000 operations minimum |
| Relay Mechanical Life: | 10,000,000 operations |
| Connections: | 90° Pluggable Screw Terminal Blocks |
| Wire Size: | 16 (1.31 mm ²) to 26 AWG (0.129 mm ²) |
| Terminal Block Torque Rating: | 0.5 Nm (Minimum); 0.6 Nm (Maximum) |
| Edge Connector: | Connect six AARs together using one connection, more if power is jumpered to every sixth AAR |
| Operating Temperature Range: | 35 to 120°F (1.7 to 48.9°C) |
| Operating Humidity Range: | 10 to 95% 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) 2.42" (H) 1.00" (82.55 x 61.47 x 25.4 mm) |
| Product Weight: | 0.25 lbs. (0.113 Kg) |
| Agency Approvals: | RoHS2, WEEE |





DIMENSIONAL DRAWING



STANDARD ORDERING

Model # Example: **AAR** -OR- **101785**

| Model # | Item # | Description |
|------------|--------|---------------------------|
| AAR | 101785 | Analog to 2 Relay Outputs |

ACCESSORIES

Model # Example: **A/DO008** -OR- **142583**

| Model # | Item # | Description |
|-------------------------|--------|--|
| A/DO008 | 142583 | Transient Voltage Suppressor, Bi-directional, 56VAC/DC, 1500W |
| A/DRC 2.7 X 3.25 | 142624 | DIN Rail Adapter Kit |
| ENC1 | 102472 | 20 Gauge Metal Enclosure, Designed to Hold Interfaces Products |

