



## Product Data

### AAR

Analog Input to High and Low Trip Level Relay Outputs

## Product Description

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. An onboard deadband selector can be set to Fixed or Adjustable. "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. AAR's are equipped with depluggable terminal blocks. Optional factory calibration can be done for an additional charge.

The AAR is covered by ACI's Two (2) Year Limited Warranty, which is located in the front of ACI'S SENSORS & TRANSMITTERS CATALOG or can be found on ACI's Website, which is: [www.workaci.com](http://www.workaci.com).

Specify: AAR

## Product Specifications

<b>Supply Voltage</b>	24VAC or 24VDC, +/-10%
<b>Supply Current</b>	45mA maximum
<b>Analog Input Impedance</b>	
<b>Voltage Range</b>	0-12VDC/1,000,000Ω 0-24VDC/20,000Ω
<b>Current Range</b>	0-20mA/499Ω
<b>Digital Output</b>	
<b>Type</b>	Two SPDT Form "C" Relays
<b>Contact Rating</b>	10A @ 120VAC
<b>Electrical Life</b>	100,000 cycles minimum
<b>Mechanical Life</b>	10,000,000 cycles
<b>Connections</b>	
<b>Wire Size</b>	Up to one 14 gauge maximum
<b>Terminal Type</b>	90° plug-in terminal blocks with 5mm pin spacing
<b>Edge Connector</b>	Connect six AARs together using one connection, more if power is jumpered to every sixth AAR
<b>Operating Temp/RH</b>	32 to 120° F (0 to 48.9° C) / 10 to 95% non condensing
<b>Approvals</b>	RoHS

Wiring Diagrams available at [www.workaci.com](http://www.workaci.com)

## Interface Devices



### Attributes:

- Board edge connectors link signal and power
- Fixed or adjustable deadband - jumper selectable
- LED status indicators
- Field adjustable "ON" and "OFF" trip levels
- Cascade up to 6 AAR's (more if you jumper power)
- Snap track included
- Depluggable terminal blocks

### Applications:

- Level indication
- Digital output expansion
- Alarms
- Staging and sequencing
- Two Position Control



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TEMPERATURE

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