# 6DI-1AO

## *6 Digital Inputs, 1 Resistance Output (Binary Signal Conversion)*

The ACI/6DI-1AO board accepts from two to six digital inputs and converts it into a resistance output. The six inputs could be used to represent a set of contacts at a door/window being in the open or closed position. Each input needs to be monitored to indicate a specific location. The controller used with this board must accept a resistance input. A unique resistor value is defined for each location so that no combination of inputs would be duplicated in total resistance. A combination of binary inputs can be closed at any one time so that the total resistance will be unique value for each of the 64 discreet output values achieved. This unit comes with a convenient snap track for mounting.

The 6DI-1AO 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 web site, www.workaci.com.

Interface

## Specifications ▼

| | |
|---|---|
| **Input** | Two to six sets of N/O dry contacts (normally-open) |
| **Operating Temperature Range** | 32 to 140ºF (0 to 60ºC) |
| **Operating Relative Humidity Range** | 5 to 95% RH Non-Condensing |
| **Output Resistance Range** | 0 to 31,779 Ohms (TB1=499Ω, TB2=1KΩ, TB3=2KΩ, TB4=4.02KΩ, TB5=8.06KΩ, TB6=16.2KΩ) |
| **Accuracy** | +/-2% |
| **Product Dimensions** | (L) 2.15" (W) 2.45" (H) 0.94" |

## Ordering ▼

Please select 6DI as an Interface Device (A).

| **A** Inputs |
|---|
| ○ **6DI** (Six Inputs) |

## Build your part number ▼

After completing (A) from the above table, fill in the Part Number Table below.  An example part number is offered.

**1AO**

| **A** | Output |
|---|---|

**EXAMPLE:** 6DI - 1AO

**Building Management System**

AI1 (Analog Input #1)
Common
AI2 (Analog Input #2)
Common

A/6DI-1AO

Resistance Output

TB4    TB1
TB5    TB2
TB6    TB3