



# ACIM252

## Dual AC Isolator



### FEATURES

- \* Form factor consistent with standard input file
- \* Front panel mounted output status indicators
- \* Front panel mounted test switches
- \* Lightning protection
- \* Input isolation
- \* Requires less than 1 watt per channel from cabinet supply
- \* Power-up Output clamp. Prevents erroneous outputs on power-up

### Description

The GDI Model ACIM252 AC Dual Isolation Module consists of two functionally identical input channels that detect the presence or absence of AC on their inputs and convert these conditions to controller compatible signals. Each channel provides input isolation, voltage hysteresis and timing to qualify an input signal

### General Characteristics

#### ACIM252

- \* Output is ON when a signal greater than 80 volts  $\pm$  3 volts is applied for a period of a minimum of 110 ms.
- \* Output is OFF when a signal of less than 70 volts  $\pm$  3 volts is applied for a period of a minimum of 110 ms.

#### ACIM252LA

- \* Output is ON when a signal greater than 83 volts  $\pm$  3 volts is applied for a period of 150 ms  $\pm$  15 ms.
- \* Output is OFF when a signal of less than 67 volts  $\pm$  3 volts is applied for a period of 150 ms  $\pm$  15 ms.

### ALL MODELS

- \* Optically isolated output is NPN OPEN collector, capable of sinking 50 mA.
- \* Voltages passing through the hysteresis band during the timing cycle will restart timing without affecting the output state
- \* The input has been designed to withstand the discharge of a 10-microfarad capacitor charged to  $\pm$ 1000 volts directly applied across the input pins, with no load present the input pins.
- \* The input has been designed to withstand the discharge of a 10-microfarad capacitor charged to  $\pm$ 2000 volts when connected across either the input pins or from either side of the input pins to equipment ground, with a dummy resistive load of 5 ohms attached across the input pins.