GDI Communications LLC
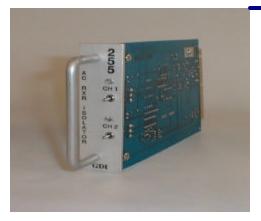Transportation Communications Specialists

ACIM255
Dual AC Isolator

Description

The GDI Model ACIM255 is a AC Dual Isolation Module. It allows a traffic controller to independently monitor the condition of two external AC circuits. The channel output turns ON when the input voltage is absent. This is a failsafe feature that is useful in critical applications such as railroad monitoring. Stable impedance, voltage threshold and timing characteristics give the GDI Model 255 unsurpassed performance and reliability.

General Characteristics

ACIM255
* Output is OFF when a signal greater than 80 volts $\pm$ 3 volts is applied for a period of a minimum of 110 ms $\pm$ 15 ms.
* Output is ON when a signal of less than 70 volts $\pm$ 3 volts is applied for a period of a minimum of 110 ms $\pm$ 15 ms.

ACIM255LA
* Output is OFF when a signal greater than 83 volts $\pm$ 3 volts is applied for a period of 150 ms $\pm$ 15 ms.
* Output is ON 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.

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