

NUSI 300 Series

Multi-Channel Encapsulated Analog Isolator

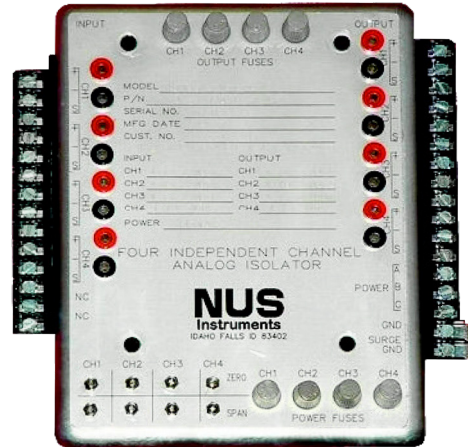
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The FIA351 Multi-Channel Encapsulated Analog Isolator is a surface mount device that isolates Class IE circuits from non-Class IE Circuits. It can be used where only a few channels of Class 1E isolation are required.

The FIA351 is simple to install, calibrate, and operate, and offers a variety of input and output ranges for different requirements, with capabilities for current or voltage signals. Test jacks are provided for both input and output voltages.

SPECIFICATIONS

Supply Voltage:	85 to 132 Vac, 47 to 63 Hz or 120 to 170 Vdc
Power:	Measured for information only on a 4-channel FCA351: At 120 Vac: AC Current 124 mAac rms, Power 6.9 W. At 132 Vac: AC Current 113 mAac rms, Power 7.0 W. At 85 Vac: AC Current 148 mAac rms, Power 6.6 W
Supply Volt Effects:	$\pm 0.1\%$ of output span for all combination of supply voltage. $\pm 0.1\%$ of output span when 2nd through 21st harmonics of the supply voltage at up to 6% magnitude are present.
Fuses:	Power: 2 amp slow blow, 125 V type 3AG (Indicating type fuse holder) Outputs: 1/4 amp, PC board mount fuse for each installed channel
Accuracy:	$\pm 0.1\%$ of output full scale.
Linearity:	$\pm 0.1\%$ of output full scale.
Temperature Effects:	$\pm 0.05\%$ of output full scale/ $^{\circ}\text{C}$ (0.28%/10 F) within the operating limits.
Dielectric Withstand:	1500 V dc and 1000 V ac (input to output). 1500 V ac and 1000 V dc (input to case). 250 V ac and 250 V dc (between outputs).
Output Fault Withstand:	480 V ac, 140 V dc at 20 A with Class 1E (power source and outputs). 480 V ac, 140 V dc at 20 A with non-Class 1E (power source and outputs).
Time Response:	Not less than 15.8 ms to 63% of the expected final value for a step input. Each channel has a 10Hz, low-pass, input filter.
Surge Withstand:	No damage when the waveform of IEEE-472-1974 is applied to any port.
Ambient Temperature:	35 to 122 $^{\circ}\text{F}$ (2 to 50 $^{\circ}\text{C}$) (Normal Operation) 35 to 135 $^{\circ}\text{F}$ (2 to 57 $^{\circ}\text{C}$) (Abnormal Operation for 200 hours) -40 to 185 $^{\circ}\text{F}$ (-40 to 85 $^{\circ}\text{C}$) (Storage)
Relative Humidity:	0 % RH to 95 % RH, non-condensing.
Pressure:	Atmospheric ± 10 psig.
Radiation Limits:	10 ⁴ rad TID gamma.
Size:	8.5" w x 9.0" l x 2.6" h (requires 2.25" top clearance)(21.59 x 22.86 x 6.60 cm and requires 5.7 cm top clearance)
Weight:	11.5 lbs (5.3 kg)



FIA351

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