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# ISSA SERIES SOLID STATE AC CURRENT SENSOR

## FEATURES

- Complete Isolation Between Sensed Current And Output Circuit
- 2 Terminal In-Line Control Circuit Wiring
- 100% Solid State
- 5% Hysteresis To Prevent Rapid Switching
- Encapsulated To Withstand Harsh Environment
- Designed To Sense The Beginning or Ending of a Function Via Monitored Current Flow
- UL/cUL Recognized

## SPECIFICATIONS

### 1. Input

- 1.1 Type: Sensed AC Current Via Isolated Toroid Sensor
- 1.2 Sense Voltage: Upt to 600 VAC
- 1.3 Sense Range: 1 Pass - 2.0 to 20.0 Amperes  
 2 Passes - 1.0 to 10.0 Amperes  
 4 Passes - 0.5 to 5.0 Amperes  
 (See Connection Diagram)

### 2. Output

- 2.1 Control Circuit Voltage: 24, 120, & 230 VAC
- 2.2 Tolerance:  $\pm 20\%$  of Nominal
- 2.3 Frequency: 50 - 60 Hertz
- 2.4 Type: Solid State:
- 2.5 Form: SPST N.O.
- 2.6 Rating: 1 Ampere (10 Amperes Inrush)
- 2.7 Life: 100,000,000 Operations Minimum Under Full Load

### 3. Trip Point

- 3.1 Fixed: Specify In Ordering Information
- 3.2 Knob Adjustable: User Settable Throughout Sensing Range (See 1.3)
- 3.3 Tolerance: -0%, +30%
- 3.4 Hysteresis: 5%
- 3.5 Trip Point vs. Voltage & Temperature:  $\pm 5\%$

### 4. Protection

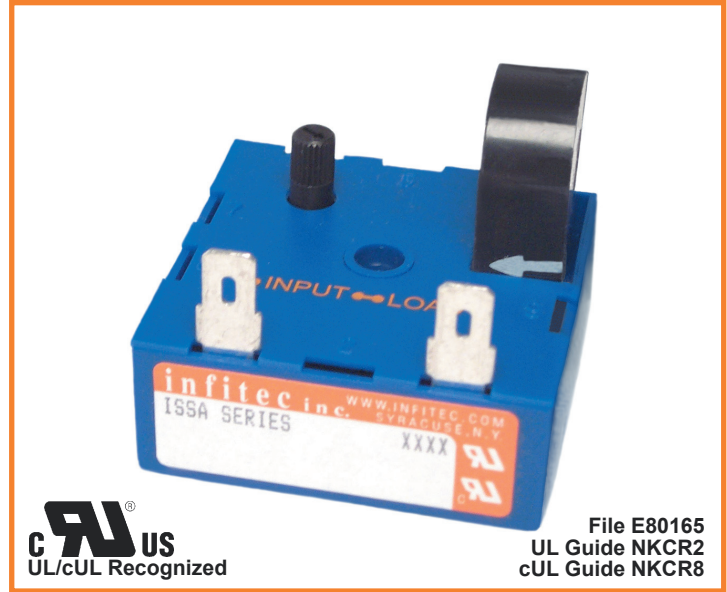
- 4.1 Transient:  $\pm 1500$  Volts for 150 Microseconds
- 4.2 Dielectric Breakdown: 1500 Volts RMS Minimum Case to Mounting Surface, 2500 Volts RMS Minimum Coil to Control Circuit Terminals

### 5. Mechanical

- 5.1 Mounting: One #8 or #10 Screw
- 5.2 Control Circuit Termination: (2) 1/4" Quick Connect
- 5.3 Style: Surface Mount/Encapsulated

### 6. Environmental

- 6.1 Operating Temperature: -20°C to +80°C
- 6.2 Storage Temperature: -40°C to +85°C
- 6.3 Humidity: 95% Relative, Non-Condensing

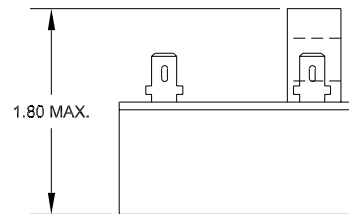
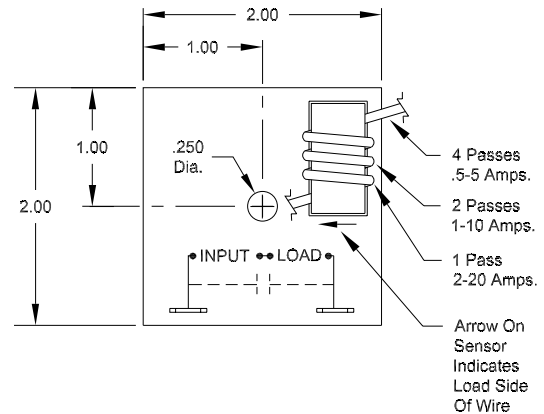


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 UL Guide NKCR2  
 cUL Guide NKCR8

## MODE OF OPERATION AC CURRENT SENSOR

Power must be applied to the control circuit at all times. When the level of current flow in the circuit being monitored is greater than the trip point, the current sensor's output circuit activates. When the level of current flow in the circuit being monitored drops below the trip point, the control circuit deactivates.

## DIMENSIONS & CONNECTIONS



## ORDERING INFORMATION

SERIES	CONTROL CIRCUIT VOLTAGE	TRIP POINT ADJUSTMENT	TRIP POINT SETTING
ISSA	4 - 24 VAC 5 - 120 VAC 6 - 230 VAC	0 - Knob 1 - Fixed	Fixed Adjustment Only
			Specify Trip Current To Nearest 1 Ampere