



P.O. Box 2956 · Syracuse · New York · 13220  
 Phone: (315) 433-1150 Fax: (315) 433-1521  
 Toll Free US & Canada: (800) 334-0837  
 Email: sales@infitec.com

# ISSB SERIES AC CURRENT SENSOR RELAY OUTPUT

## FEATURES

- Complete Isolation Between Sensed Current and Output Circuit
- Output Contact Ratings Up to 30 Amperes
- 5% Hysteresis to Prevent Rapid Switching
- Over Current and Under Current Sensing
- Encapsulated to Withstand Harsh Environment
- Designed to Sense the Beginning or Ending of a Function Via Monitored Current Flow
- UL/cUL Recognized

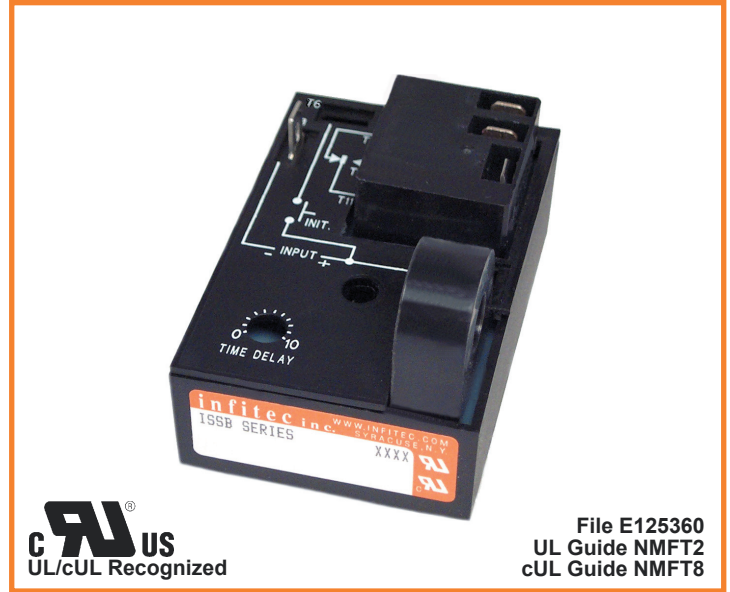
## SPECIFICATIONS

- Control**
  - 1.1 Type: Sensed Current Via Isolated Toroid Sensor
  - 1.2 Sense Voltage: Up to 600 VAC
  - 1.3 Sense Range: 1 Pass - 2 to 20 Amperes  
2 Passes - 1 to 10 Amperes  
4 Passes - 0.5 to 5 Amperes  
(See Connection Diagram)
- Input**
  - 2.1 Control Circuit Voltage: 24, 120, & 230 VAC
  - 2.2 Tolerance:  $\pm 20\%$  of Nominal
  - 2.3 Frequency 50 - 60 Hertz
- Output**
  - 3.1 Type: Electromechanical Relay
  - 3.2 Form: SPST or SPDT, Isolated & Non-Isolated  
(See Ordering Info)
  - 3.3 Rating: See Output Contact Rating Chart
  - 3.4 Life: Medium Power -  
Electrical - Full Load - 100,000 Operations  
Mechanical - 10,000,000 Operations  
High Power and Heavy Duty -  
Electrical - Full Load - 100,000 Operations  
Mechanical - 10,000,000 Operations
- Trip Point**
  - 4.1 Fixed: Specify In Ordering Information
  - 4.2 Knob Adjustable: User Settable Throughout Sensing Range (See 1.3)
  - 4.3 Tolerance:  $\pm 20\%$
  - 4.4 Trip Point vs. Voltage and Temperature:  $\pm 5\%$
- Protection**
  - 5.1 Transient:  $\pm 1500$  Volts for 150 Microseconds
  - 5.2 Dielectric Breakdown: 1500 Volts RMS
- Mechanical**
  - 6.1 Mounting: One #8 or #10 Screw
  - 6.2 Control Circuit Termination: 1/4" Quick Connect
  - 6.3 Style: Surface Mount/Encapsulated
- Environmental**
  - 7.1 Operating Temperature:  $-20^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$
  - 7.2 Storage Temperature:  $-30^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
  - 7.3 Humidity: 95% Relative, Non-Condensing

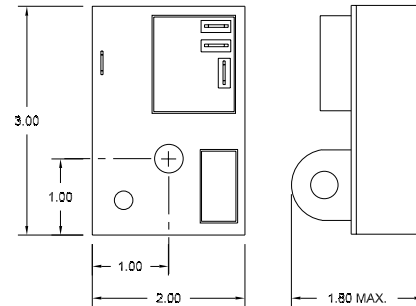
## MODE OF OPERATION

### AC CURRENT SENSOR

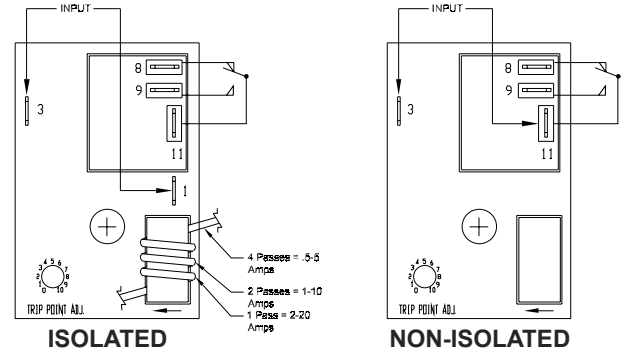
Power must be applied to the control circuit at all times. When the level of current flow in the circuit being monitored is greater than the trip point, the current sensor's control circuit contacts transfer. When the current flow in the circuit being monitored drops below the trip point, the control circuit contacts revert back to their original position.



## DIMENSIONS



## CONNECTION DIAGRAMS



OUTPUT CONTACT RATING CHART			
	30 VDC	125 VAC	240 VAC
<b>MEDIUM POWER</b>			
N.O.	10A	10A, 1/4hp	10A, 1/4hp
N.C.	5A	5A, 1/4hp	5A, 1/4hp
<b>HIGH POWER</b>			
N.O.	20A	20A, 1hp	20A, 2hp
N.C.	10A	10A, 1/4hp	10A, 1/2hp
<b>HEAVY DUTY</b>			
N.O.	30A	30A, 1hp	30A, 2hp

## ORDERING INFORMATION

SERIES	INPUT VOLTAGE	OUTPUT	TRIP POINT ADJUSTMENT	TRIP POINT SETTING
ISSB	4 - 24 VAC 5 - 120 VAC 6 - 230 VAC	A - Medium Power (SPDT, Isolated) B - High Power (SPDT, Isolated) C - Heavy Duty (SPST, Isolated) E - Medium Power (SPDT, Non-Isolated) F - High Power (SPDT, Non-Isolated) G - Heavy Duty (SPST, Non-Isolated)	0 - Knob 1 - Fixed	FIXED ADJUST ONLY
				Specify Trip Current To Nearest Ampere