



## AMP25, AMP50, AMP100

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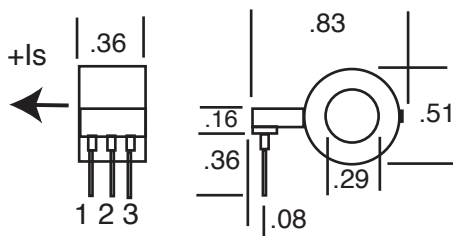
### 25,50,100 Ampere Ratings

Hall effect linear sensors. (-40 to +125C)

Sensor Style	Fig.	Sensed Current (Amps peak)	Vs= +5V $\Delta V_o$ at peak rated current **	Vs= +5V Sensitivity mV/A **	
AMP25*	1	25	.925V	37	
AMP50	1	50	1.1254V	23	
AMP100	1	100	1.9V	19	

\*\* proportional to Vs

Figure 1



Dimensions: Inches  
Terminals: .025 sq., 0.1 spacing.  
Weight: 3 grams.



AMP25 Linear to 60A.

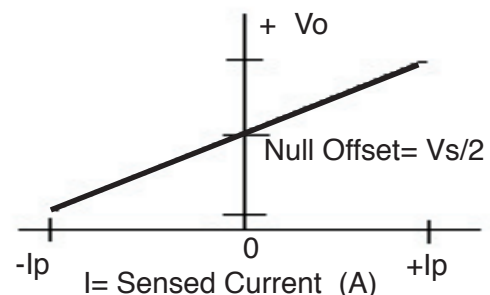
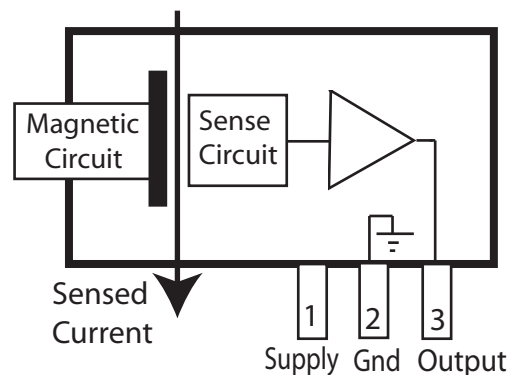
AMP50 Linear to 95A.

AMP100 Linear to 120A.

**Caution:** Do not reverse supply voltage polarity.

### ELECTRICAL CHARACTERISTICS

Supply voltage, Vs...(AMP25)\* .....+4.5 to +8 Vdc  
Supply voltage, Vs.. AMP50, AMP100)..+4.5 to +10 Vdc  
Supply Current..... 10mA max.  
Output Current..... 2mA max.  
Offset Voltage,  $V_o$  (Sensed  $I = 0A$ .)..  $V_s/2 \pm 2\%$   
Output Voltage,  $V_o$  is proportional to Vs.  
Temperature Error  
Null..... .03%/C  
Gain..... .03%/C  
Temperature Range.....-40C to + 125C  
Response Time.\*..... 7 $\mu$ Sec.  
Response Time..... 3 $\mu$ Sec.  
Linearity (Full Scale)..... 1%  
Accuracy (Full Scale).....  $\pm 2\%$   
A.C. Hysteresis Error..... 0.5%





**amploc**  
current sensors

**KEY100, AMP200, AMP300**

100A , 200A , 300A ratings

Hall effect linear current sensors. (-40C to +125C)

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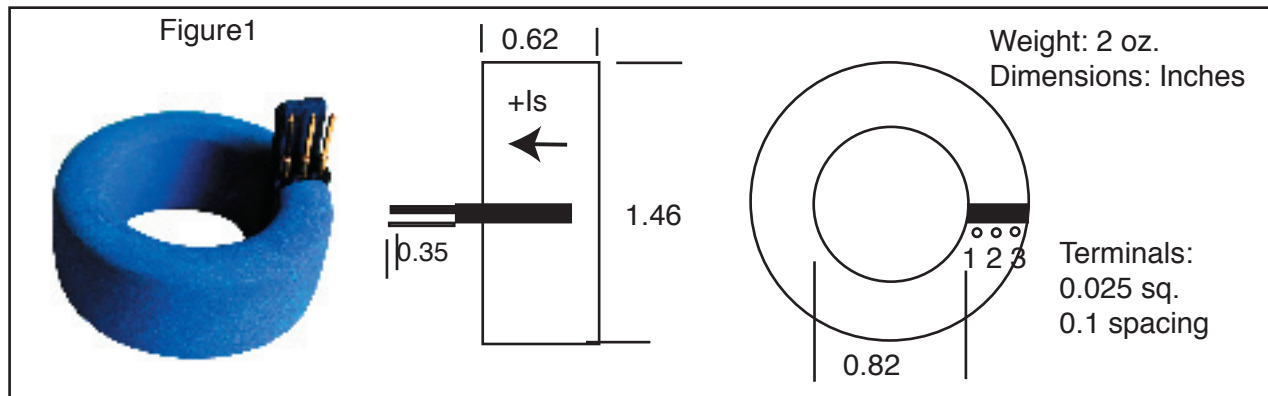
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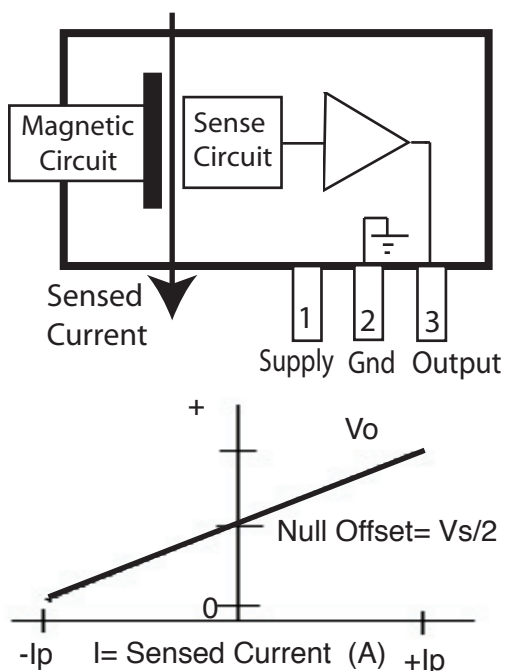
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Sensor Style	Fig.	Sensed Current (Amps peak)	Vs= +5V $\Delta V_o$ at peak rated current *	Vs= +5V Sensitivity mV/A *	
KEY 100	1	100	1.59V	15.9	
AMP 200	1	200	1.9V	9.5	
AMP 300	1	300	2.38V	7.9	

\* proportional to Vs



Mating connector: Samtec SSW-1-03-02-T-S-RA  
or Molex 5051-04



**Caution:** Do not reverse supply voltage polarity.  
Do not drop on cement floor.

### ELECTRICAL CHARACTERISTICS

Supply voltage, Vs.....+4.5 to +10.0 Vdc  
Supply Current..... 10mA max.  
Output Current..... 2mA max.  
Offset Voltage,  $V_o$  (Sensed  $I = 0A$ ).  $V_s/2 \pm 2\%$   
Output Voltage,  $V_o$  is proportional to Vs.  
Temperature Error  
Null..... .03%/C  
Gain..... .03%/C  
Temperature Range..... -40C to +125C  
Response Time..... 3 $\mu$ Sec.  
Linearity (Full Scale)..... 1%  
Accuracy (Full Scale).....  $\pm 2\%$



**amploc**  
current sensors

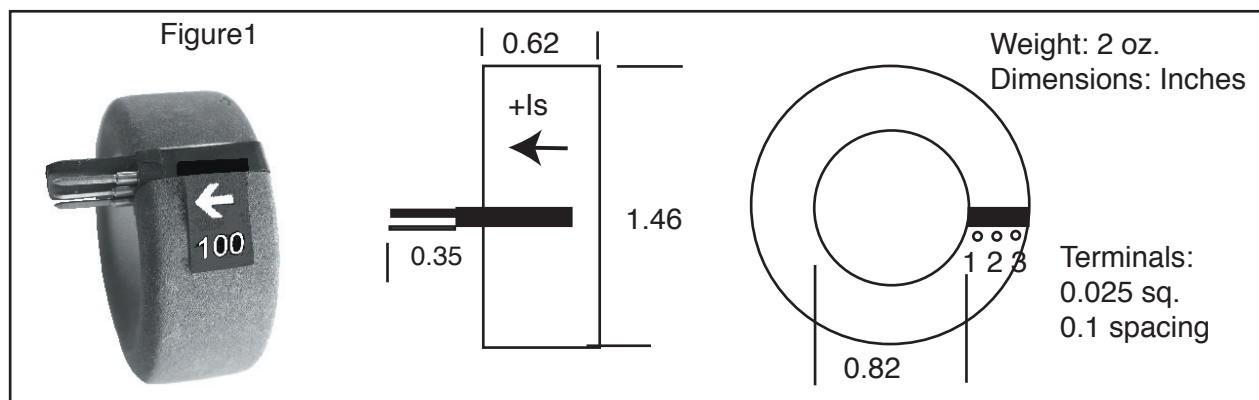


## KEY 100 (100A rating)

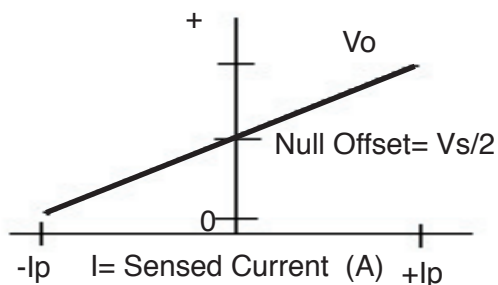
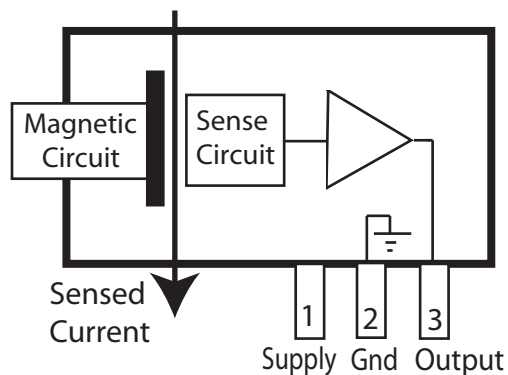
Hall effect linear current sensors. (-40C to +125C)

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Sensor Style	Fig.	Sensed Current (Amps peak)	Vs= +5V $\Delta V_o$ at peak rated current *	Vs= +5V Sensitivity mV/A *	
KEY100	1	100	1.59V	15.9	



Mating connector: Samtec SSW-1-03-02-T-S-RA  
or Molex 5045-04/AG



**Caution:** Do not reverse supply voltage polarity.  
Do not drop on cement floor.

### ELECTRICAL CHARACTERISTICS

Supply voltage, Vs.....+4.5 to +8.0 Vdc  
Supply Current..... 10mA max.  
Output Current..... 2mA max.  
Offset Voltage,  $V_o$  (Sensed  $I = 0A$ ).  $V_s/2 \pm 2\%$   
Output Voltage,  $V_o$  is proportional to  $V_s$ .  
Temperature Error  
Null..... .03%/C  
Gain..... .03%/C  
Temperature Range..... -40C to +125C  
Response Time..... 7 $\mu$ Sec.  
Linearity (Full Scale)..... 1%  
Accuracy (Full Scale).....  $\pm 2\%$



## AMP25S, AMP50S, AMP100S

25,50,100 Ampere Ratings

Hall effect linear sensors. (-40 to +125C)

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Box 152, Goleta, CA 93116

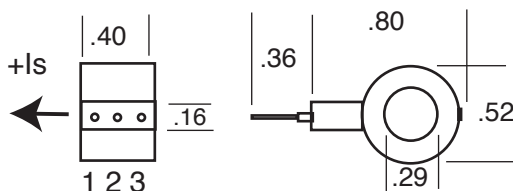
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Sensor Style	Fig.	Sensed Current (Amps peak)	Vs= +5V $\Delta V_o$ at peak rated current **	Vs= +5V Sensitivity mV/A **	
AMP25S	1	25	.925 V	37	
AMP50S	1	50	1.14V	23	
AMP100S	1	100	1.9V	19	

\*\* proportional to Vs

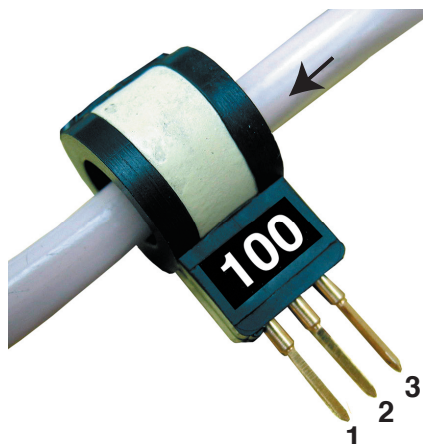
Figure 1



Dimensions: Inches

Terminals: .025 sq., 0.1 spacing.

Weight: 3 grams.



**Caution:** Do not reverse supply voltage polarity.

### ELECTRICAL CHARACTERISTICS

Supply voltage, Vs.. AMP50, AMP100)..+4.5 to +10 Vdc

Supply Current..... 10mA max.

Output Current..... 2mA max.

Offset Voltage,  $V_o$  (Sensed  $I = 0A$ .)  $V_s/2 \pm 1\%$

Output Voltage,  $V_o$  is proportional to Vs.

Temperature Error

Null..... .03%/C

Gain..... .03%/C

Temperature Range.....-40C to + 125C

Response Time..... 3 $\mu$ Sec.

Linearity (Full Scale)..... 1%

Accuracy (Full Scale).....  $\pm 2\%$

A.C. Hysteresis Error..... 0.5%

