Solid State Sensors Linear Current Sensors

CS Series



FEATURES

- Linear output
- AC or DC current sensing
- Through-hole designFast response time
- Output voltage isolation from input
- Minimum energy dissipation
- Maximum current limited only by conductor size
- Adjustable performance and built-in temperature compensation assures reliable operation
- Accurate, low cost sensing
- Operating temperature range –25 to 85°C
- Housing: PET polyester

LINEAR CURRENT SENSORS

MICRO SWITCH CS series linear current sensors incorporate our 91SS12-2 and SS94A1 linear output Hall effect transducer (LOHET[™]). The sensing element is assembled in a printed circuit board mountable housing. This housing is available in four configuration as shown in mounting dimension figures 1, 1a, 2 and 2a. Normal mounting is with 0.375 inch long 4-40 screw and square nut (not provided) inserted in the housing or a 6-20 self-tapping screw. The combination of the sensor, flux collector, and housing comprises the holder assembly. These sensors are ratiometric.

ORDER GUIDE - BOTTOM MOUNT WITH 9SS SENSOR, SOURCE OUTPUT

| Catalog | Mtg. Dim. | | Supply | Sensed Current (Amps | Offset Volt. | Sensitivity mV•N* At 12 VDC | | Offset Shift | Response Time |
|---------|--------------|------------|-----------|----------------------------|-----------------|-----------------------------------|-----------|-----------------|------------------|
| Listing | Fig. | (Volts DC) | (mA Max.) | Peak) | (Volts±10%) | Nominal | \pm TOL | (%/°C) | (µ Sec.) |
| CSLA1CD | 1 | 8 to 16 | 19 | 57 | Vcc/2 | 49.6 | 5.8 | ±.05 | 3 |
| CSLA1CE | 1 | 8 to 16 | 19 | 75 | Vcc/2 | 39.4 | 4.4 | ±.05 | 3 |
| CSLA1DE | 2 | 8 to 16 | 19 | 75 | Vcc/2 | 39.1 | 4.8 | ±.05 | 3 |
| CSLA1CF | 1 | 8 to 16 | 19 | 100 | Vcc/2 | 29.7 | 2.7 | ±.05 | 3 |
| CSLA1DG | 2 | 8 to 16 | 19 | 120 | Vcc/2 | 24.6 | 2.1 | ±.05 | 3 |
| CSLA1CH | 1 | 8 to 16 | 19 | 150 | Vcc/2 | 19.6 | 1.8 | ±.05 | 3 |
| CSLA1DJ | 2 | 8 to 16 | 19 | 225 | Vcc/2 | 13.2 | 1.2 | ±.05 | 3 |
| CSLA1EJ | 1a | 8 to 16 | 19 | 225 | Vcc/2 | 13.2 | 1.5 | ±.05 | 3 |
| CSLA1DK | 2 | 8 to 16 | 19 | 325 | Vcc/2 | 9.1 | 1.7 | ±.05 | 3 |
| CSLA1EK | 1a | 8 to 16 | 19 | 325 | Vcc/2 | 9.4 | 1.3 | ±.05 | 3 |
| CSLA1EL | 1a | 8 to 16 | 19 | 625 | Vcc/2 | 5.6 | 1.3 | ±.05 | 3 |

BOTTOM MOUNT WITH SS9 SENSOR, SINK/SOURCE OUTPUT

| Mtg. Catalog Dim. | | | Supply Current | Sensed Current (Amps | Offset Volt. | Sensitivity mV•N* At 8 VDC | | Offset Shift | Response Time |
|----------------------|------|------------|-------------------|----------------------------|-----------------|----------------------------------|-------|-----------------|------------------|
| Listing | Fig. | (Volts DC) | (mA Max.) | Peak) | (Volts±2%) | Nominal | ± TOL | (%/°C) | (μ Sec.) |
| CSLA2CD | 1 | 6 to 12 | 20 | 72 | Vcc/2 | 32.7 | 3.0 | ±.02 | 3 |
| CSLA2CE | 1 | 6 to 12 | 20 | 92 | Vcc/2 | 26.1 | 2.1 | ±.02 | 3 |
| CSLA2DE | 2 | 6 to 12 | 20 | 92 | Vcc/2 | 25.6 | 2.2 | ±.02 | 3 |
| CSLA2CF | 1 | 6 to 12 | 20 | 125 | Vcc/2 | 19.6 | 1.3 | ±.02 | 3 |
| CSLA2DG | 2 | 6 to 12 | 20 | 150 | Vcc/2 | 16.2 | 1.1 | ±.02 | 3 |
| CSLA2DJ | 2 | 6 to 12 | 20 | 225 | Vcc/2 | 8.7 | 0.6 | ±.020 | 3 |
| CSLA2DH | 2 | 6 to 12 | 20 | 235 | Vcc/2 | 9.8 | 1.1 | ±.0125 | 3 |
| CSLA2EJ | 1a | 6 to 12 | 20 | 310 | Vcc/2 | 7.6 | 0.7 | ±.0125 | 3 |
| CSLA2DK | 2 | 6 to 12 | 20 | 400 | Vcc/2 | 5.8 | 0.5 | ±.0125 | 3 |
| CSLA2EL | 1a | 6 to 12 | 20 | 550 | Vcc/2 | 4.3 | 0.4 | ±.0125 | 3 |
| CSLA2EM | 1a | 6 to 12 | 20 | 765 | Vcc/2 | 3.1 | 0.3 | ±.007 | 3 |
| CSLA2EN | 1a | 6 to 12 | 20 | 950 | Vcc/2 | 2.3 | 0.2 | ±.007 | 3 |

NOTE: When monitoring purely AC current with zero DC component, a capacitor can be inserted in series with the output of the current sensor. The capacitor will block out the effect of the temperature variation of the offset voltage which increases the accuracy of the device.

 $\underline{*}$ N = number of turns

Honeywell

CSLW Series

Miniature Wired Open-Loop Current Sensors



DESCRIPTION

Honeywell's CSLW Series miniature, open-loop current sensors incorporate our SS490 Series miniature ratiometric linear Hall-effect sensor (MRL[™]). The sensing element is encapsulated in a printed circuit board-mountable plastic package.

FEATURES

- Wired open-loop design with multiple turns for increased sensitivity
- ac or dc current sensing
- Linear ratiometric output
- · Current sinking or sourcing output for interfacing flexibility
- Low insertion loss
- Fast response time
- Compact size for applications with limited space
- Accurate, low-cost sensing
- Minimum energy dissipation
- Maximum current limited only by conductor size
- Built-in temperature compensation promotes reliable operation
- Operating temperature range -25 °C to 100 °C [-13 °F to 212 °F]
- RoHs compliant (lead-free)

The combination of sensor, flux collector, housing, and wire coil comprises the current sensor assembly. These sensors are ratiometric.

POTENTIAL APPLICATIONS

- Motor control in appliances, HVAC and consumer tools
- Current monitoring of electronic circuits
- Overcurrent protection
- Ground fault detectors
- Robotics
- Industrial process control
- UPS and telecommunication power supplies
- Welding current monitoring
- Battery management systems in mobile equipment
- Watt meters
- Variable speed drives

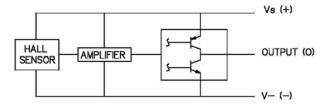
CSLW Series

PRODUCT SPECIFICATIONS

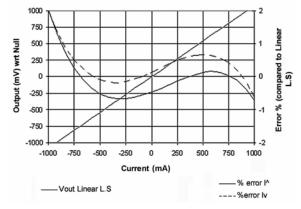
| Product type | miniature hall-effect linear open-loop current sensor |
|-------------------------|---|
| Package quantity/type | 25 per box |
| Package style | PC board mount – radial lead IC |
| Supply voltage | 4.5 Vdc to 10.5 Vdc |
| Output type | sink/source |
| Magnetic actuation type | analog ratiometric |

| Parameter | | CSLW6B1 | CSLW6B5 | CSLW6B40M | CSLW6B200M | Units | Symbol | Conditions |
|-------------------------|------|-------------|-------------|-------------|-------------|-------|-----------------------|--|
| Current range (mi | n.) | ±1 A | ±5 A | ±40 mA | ±200 mA | — | lp | <±1.5 % error (-25 °C to 100 °C [-13 °F to 212 °F]) |
| Supply voltage | | 4.5 to 10.5 | 4.5 to 10.5 | 4.5 to 10.5 | 4.5 to 10.5 | V | V _s | — |
| V _{out} @ 0 AT | | 2.50 ±0.15 | 2.50 ±0.15 | 2.50 ±0.15 | 2.50 ±0.15 | V | V _° | — |
| Supply current | typ. | 7 | 7 | 7 | 7 | mA I | _s No | Load |
| | max. | 99 | | 9 | 9 | | | |
| Turns | | 60 ±1 | 12 | 1500 ±20 | 300 ±5 | — | N | — |
| Coil resistance | typ. | 0.16 0.01 | | 120 | 4 | Ω | _ | — |
| Sensitivity | min. | 898 179 | | 22400 | 4500 | mV/A | Δ V/ I | -25 °C to 100 °C |
| | typ. | 1020 204 | | 25500 | 5100 | | | [-13 °F to 212 °F] |
| | max. | 1142 229 | | 30000 | 5700 | | | |
| Hysteresis | max. | 0.5 | 0.5 | 0.5 | 0.5 | % | _ | @ min current range |
| Temp error – null | max. | ±0.064 | ±0.064 | ±0.064 | ±0.064 | %/°C | $TC_{\Delta_{Vo/Vo}}$ | — |
| Temp error - gain | max. | -0.03 +0.12 | -0.03 +0.12 | -0.03 +0.12 | -0.03 +0.12 | %/°C | TC _G | -25 °C to 100 °C [-13 °F to 212 °F] |
| Rise time | typ. | 3 | 3 | 3 | 3 | μs | t, | 0 to 40% of min current range |

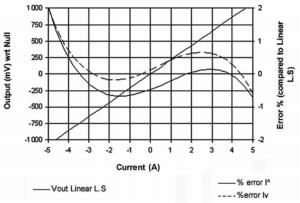
BLOCK DIAGRAM



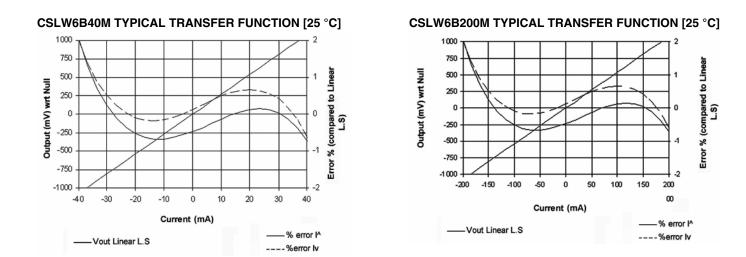
CSLW6B1 TYPICAL TRANSFER FUNCTION [25 °C]



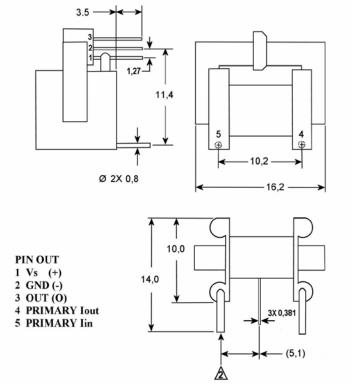
CSLW6B5 TYPICAL TRANSFER FUNCTION [25 °C]



Miniature Wired Open-Loop Current Sensors



DIMENSIONAL DRAWING (For reference only [mm))



ORDER GUIDE

| Catalog Listing | Description |
|-----------------|--|
| CSLW6B1 | CSLW Series, Miniature, Open-Loop Current Sensor, 1 A |
| CSLW6B5 | CSLW Series, Miniature, Open-Loop Current Sensor, 5 A |
| CSLW6B40M | CSLW Series, Miniature, Open-Loop Current Sensor, 40 mA |
| CSLWB200M | CSLW Series, Miniature, Open-Loop Current Sensor, 200 mA |

A WARNING

PERSONAL INJURY

DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

A WARNING MISUSE OF DOCUMENTATION

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Honeywell

CSLT Series

Miniature, Open-Loop Current Sensors



DESCRIPTION

Honeywell's CSLT Series miniature, open-loop current sensors incorporate our SS490 Series miniature ratiometric linear Hall-effect sensor (MRL[™]). The sensing element is encapsulated in a printed circuit board-mountable plastic package.

FEATURES

- Open-loop, through-hole design
- Output voltage isolation from input
- ac or dc current sensing
- Linear ratiometric output
- Current sinking or sourcing output for interfacing flexibility
- Fast response time
- Compact size
- Accurate, low-cost sensing
- Minimum energy dissipation
- Maximum current limited only by conductor size
- Built-in temperature compensation promotes reliable operation
- Operating temperature range -25 °C to 100 °C [-13 °F to 212 °F]
- RoHs compliant (lead-free)

The combination of sensor, flux collector and housing comprises the current sensor assembly. These sensors are ratiometric.

POTENTIAL APPLICATIONS

- Motor control in appliances, HVAC and consumer tools
- Current monitoring of electronic circuits
- Overcurrent protection
- Ground fault detectors
- Robotics
- Industrial process control
- UPS and telecommunication power supplies
- Welding current monitoring
- · Battery management systems in mobile equipment
- Watt meters
- Variable speed drives

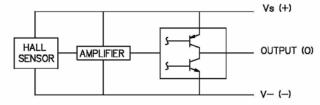
CSLT Series

PRODUCT SPECIFICATIONS

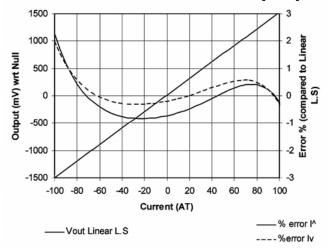
| Product type | miniature hall-effect linear open-loop current sensor |
|-------------------------|---|
| Package quantity/type | 25 per box |
| Package style | PC board mount – radial lead IC |
| Supply voltage | 4.5 Vdc to 10.5 Vdc |
| Output type | sink/source |
| Magnetic actuation type | analog ratiometric |

| Parameter | Symbol | Min. | Тур. | Max. | Units | Condition |
|-------------------------|-----------------------|--------|------|-------|-------|--|
| Current range | lp | ±100 | — | — | AT | <±1.5 % error (-25 °C to 100 °C [-13 °F to 212 °F]) |
| Supply voltage | V _s | 4.5 | 5 | 10.5 | V | — |
| V _{out} @ 0 NI | V _o | 2.35 | 2.5 | 2.65 | V | — |
| Supply current | l _s | — | 7 | 9 | mA | no load |
| Sensitivity | ΔV/I | 13.5 | 16 | 18.5 | mV/AT | -25 °C to 100 °C [-13 °F to 212 °F] |
| Hysteresis | _ | — | — | 0.5 | % | ±100 A |
| Temp error - null | $TC_{\Delta_{Vo/Vo}}$ | -0.064 | — | 0.064 | %/°C | — |
| Temp error - gain | TC _G | -0.03 | — | 0.12 | %/ °C | -25 °C to 100 °C [-13 °F to 212 °F] |
| Rise time | t, | — | 3 | | μs | 0 A to 2.0 A |

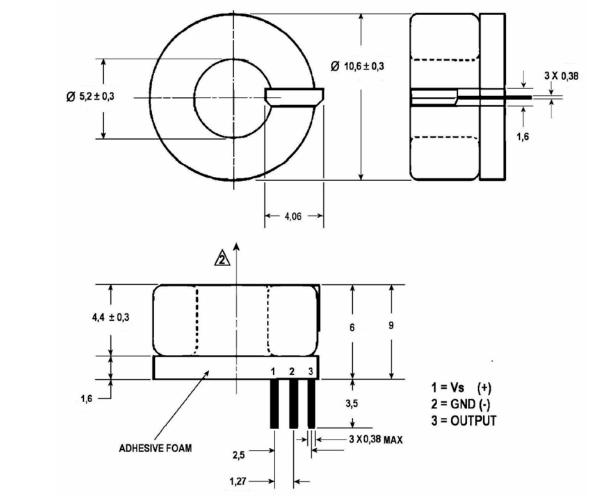
BLOCK DIAGRAM



CSLT6B100 TYPICAL TRANSFER FUNCTION [25 °C]



Miniature, Open-Loop Current Sensors



DIMENSIONAL DRAWING (For reference only [mm])

ORDER GUIDE

| Catalog Listing | Description |
|-----------------|---|
| CSLTB100 | CSLT Series, Miniature, Open-Loop Current Sensor, 100 A |

A WARNING

PERSONAL INJURY

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Failure to comply with these instructions could result in death or serious injury.

WARRANTY/REMEDY

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SALES AND SERVICE

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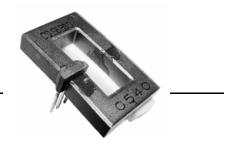
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Honeywell

CSLS Series

Miniature Open-Loop Current Sensors



DESCRIPTION

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FEATURES

- Open-loop, through-hole design
- Output voltage isolation from input
- ac or dc current sensing
- Linear ratiometric output
- Current sinking or sourcing output for interfacing flexibility
- Fast response time
- Compact size
- Accurate, low-cost sensing
- Minimum energy dissipation
- Maximum current limited only by conductor size
- Built-in temperature compensation promotes reliable
 operation
- Operating temperature range -25 °C to 100 °C [-13 °F to 212 °F]
- RoHs compliant (lead-free)

The combination of sensor, flux collector and housing comprises the current sensor assembly. These sensors are ratiometric.

POTENTIAL APPLICATIONS

- Motor control in appliances, HVAC and consumer tools
- Current monitoring of electronic circuits
- Overcurrent protection
- Ground fault detectors
- Robotics
- Industrial process control
- UPS and telecommunication power supplies
- Welding current monitoring
- · Battery management systems in mobile equipment
- Watt meters
- Variable speed drives

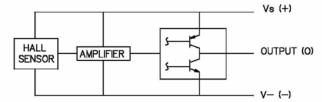
CSLS Series

PRODUCT SPECIFICATIONS

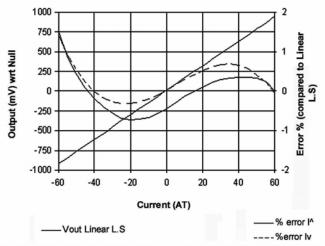
| Product type | miniature hall-effect linear open-loop current sensor |
|-------------------------|---|
| Package quantity/type | 25 per box |
| Package style | PC board mount – radial lead IC |
| Supply voltage | 4.5 Vdc to 10.5 Vdc |
| Output type | sink/source |
| Magnetic actuation type | analog ratiometric |

| Parameter | Symbol | Min. | Тур. | Max. | Units | Condition |
|-------------------------|----------------------|--------|------|-------|-------|--|
| Current range | lp | ±60 | — | — | AT | <±1.5 % error (-25 °C to 100 °C [-13 °F to 212 °F]) |
| Supply voltage | V _s | 4.5 | 5 | 10.5 | V | — |
| V _{out} @ 0 NI | V _o | 2.35 | 2.5 | 2.65 | V | — |
| Supply current | l _s | | 7 | 9 | mA | no load |
| Sensitivity | ΔV/I | 15 | 17 | 19 | mV/AT | -25 °C to 100 °C [-13 °F to 212 °F] |
| Hysteresis | — | _ | — | 0.5 | % | ±60 A |
| Temp error - null | TC _{ΔVo/Vo} | -0.064 | — | 0.064 | %/°C | — |
| Temp error - gain | TC _G | -0.03 | — | 0.12 | %/ °C | -25 °C to 100 °C [-13 °F to 212 °F] |
| Rise time | t, | _ | 3 | — | μs | 0 A to 2.0 A |

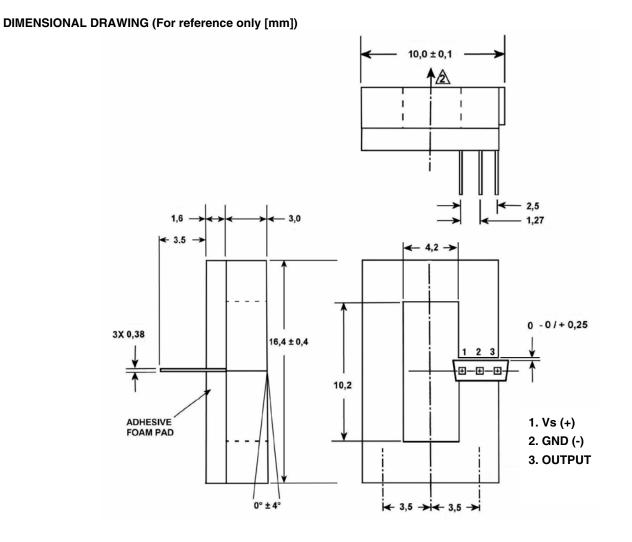
BLOCK DIAGRAM



CSLS6B60 TYPICAL TRANSFER FUNCTION [25 °C]



Miniature Open-Loop Current Sensors



ORDER GUIDE

| Catalog Listing | Description |
|-----------------|--|
| CSLS6B60 | CSLS Series, Miniature, Open-Loop Current Sensor, 60 A |

A WARNING

PERSONAL INJURY

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| +1-815-23 | 5-6545 Fax | | | | | | |
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Solid State Sensors

Linear Current Sensors

SIDE MOUNT WITH 9SS SENSOR, SOURCE OUTPUT

| Catalog Listing | Dim. | Supply Volt. (Volts DC) | Supply Current (mA Max.) | V 1 | Sensed Offset Volt. (Volts±10%) | Sensitivity | | | |
|--------------------|------|-------------------------------|--------------------------------|-----|--|--------------------|-------|-----------------|------------------|
| | | | | | | mV•N* At 12 VDC | | Offset Shift | Response Time |
| | | | | | | Nominal | ± TOL | (%/°C) | (μ Sec.) |
| CSLA1GD | 2a | 8 to 16 | 19 | 57 | Vcc/2 | 49.6 | 5.8 | ±.05 | 3 |
| CSLA1GE | 2a | 8 to 16 | 19 | 75 | Vcc/2 | 39.4 | 4.4 | ±.05 | 3 |
| CSLA1GF | 2a | 8 to 16 | 19 | 100 | Vcc/2 | 29.7 | 2.7 | ±.05 | 3 |

SIDE MOUNT WITH SS9 SENSOR, SINK/SOURCE OUTPUT

| Catalog Listing | Mtg. Dim. Fig. | Supply Volt. (Volts DC) | Supply Current (mA Max.) | Sensed Current (Amps Peak) | Offset Volt. (Volts±2%) | Sensitivity mV•N* At 8 VDC | | Offset Shift | Response Time |
|--------------------|----------------------|-------------------------------|--------------------------------|-------------------------------------|-------------------------------|----------------------------------|-------|-----------------|------------------|
| | | | | | | Nominal | ± TOL | (%/°C) | (μ Sec.) |
| CSLA2GD | 2a | 6 to 12 | 20 | 72 | Vcc/2 | 32.7 | 3.0 | ±.02 | 8 |
| CSLA2GE | 2a | 6 to 12 | 20 | 92 | Vcc/2 | 26.1 | 2.1 | ±.02 | 8 |
| CSLA2GF | 2a | 6 to 12 | 20 | 125 | Vcc/2 | 19.6 | 1.3 | ±.02 | 8 |
| CSLA2GG | 2a | 6 to 12 | 20 | 150 | Vcc/2 | 12.7 | 0.6 | ±.02 | 8 |

NOTE: When monitoring purely AC current with zero DC component, a capacitor can be inserted in series with the output of the current sensor. The capacitor will block out the effect of the temperature variation of the offset voltage which increases the accuracy of the device.

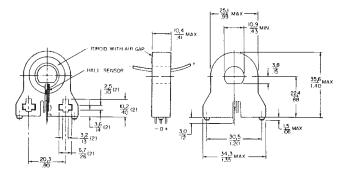
*N = number of turns.

MOUNTING DIMENSIONS (for reference only)

Figure 1

Figure 2

Figure 2a



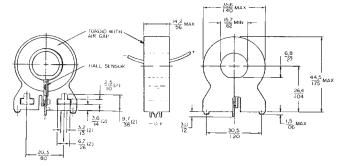
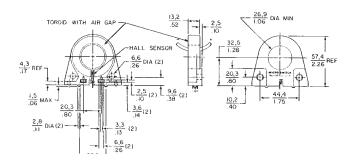
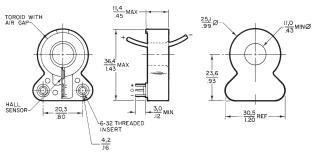


Figure 1a





* Application consideration: The output is clamped at the high end. Clamping voltage may be as low as 9VDC. The output will not exceed the clamping voltage regardless of field strength or supply voltage.