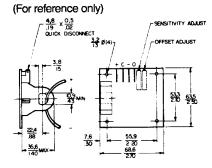
## **Current Sensors** Adjustable Linear Output

CS Series



### **TYPICAL DIMENSIONS**



#### **ADJUSTABLE LINEAR** SENSORS DC/DC

This family is designed to provide a DC output voltage while sensing DC current. By adjusting the offset voltage trimpot the user can adjust the offset to one half of the supply voltage. The full scale current output voltage can be adjusted by the use of the sensitivity trim-

Can sense AC or DC current with optional industrial outputs. Other sizes available.

#### **FEATURES**

- V<sub>∞</sub>/2 offset voltage
- 8 µsec response time
- $\bullet~\pm$  .03%/°C offset shift

#### DC/DC ORDER GUIDE RATIOMETRIC SINK/SOURCE OUTPUT

Catalog Listings	Max. Sensed Current (Amps-Peak)	Adjustable Operating Range @ Vcc = 12 VDC*					
		Min. Sens. (mV/NI)	Oper. Range (Amps)	Max. Sens. (mV/NI)	Oper. Range (Amps)		
CSLB1AD	57	53	0-57	90	0-33		
CSLB1AF	100	30	0-100	55	0-55		

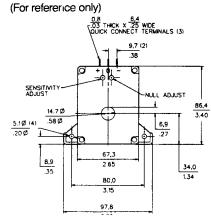
<sup>\*</sup> For best results, choose a sensor to operate toward its maximum operate range. Increased amplification occurs when adjusting toward a minimum operate range; noise is also amplified.

# **Current Sensors**

Industrial Enclosed Linear Output



TYPICAL DIMENSIONS



#### **GENERAL INFORMATION**

CS Series solid-state industrial linear current sensors are completely enclosed to provide the circuitry and sensing elements a degree of protection from contaminants and physical damage. They detect variations in the flow of either alternating (AC) or direct (DC)

While monitoring current flow up to 1,000 amperes, these sensors produce a linear output signal (1 to 5 volts DC or 4 to 20 milliamps). This signal duplicates the waveform of the DC current being sensed and responds to peak AC current levels.

#### **FEATURES**

- Adjustable operating range
- Industrial standard 1 to 5 VDC or 4 to 20

CS Series

- Regulated power supply accepts 10.5 to 24 VDC input
- · AC or DC current sensing
- Through-hole design
- Fast response time, 150 msec
- Output voltage isolation from input
- Minimum energy dissipation
- Sensors available with adjustable performance feature
- Built-in temperature compensation
- Operating temperature range: -25° to 85°C (-13° to 185°F)
- · Accurate, low-cost sensing
- 4mA offset current

#### ORDER GUIDE AC/DC SENSORS WITH 4.0 TO 20.0 MILLIAMPS SOURCE OUTPUT

Catalog Listing	Supply Current (mA max.)	Max. Sensed Current* (Amps-Peak)	Adjustable Operating Range			
			Min. Sens. (μΑ/ΝΙ)	Oper. Range (Amps)	Max. Sens. (μΑ/ΝΙ)	Oper. Range (Amps)
CSLF5HD	30	18	869.6	18	2666.7	6
CSLF5HE	30	92	173.9	92	533.33	30

\*Optimum accuracy is obtained when operating the sensor at maximum sensed current.

