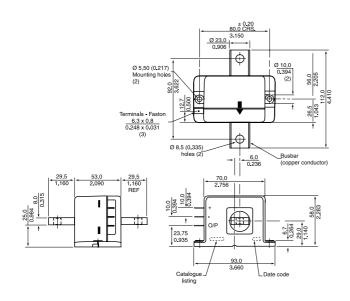
CSN Series Closed Loop Current Sensors (Continued)

Mid range housed style Housing material: Mounting:

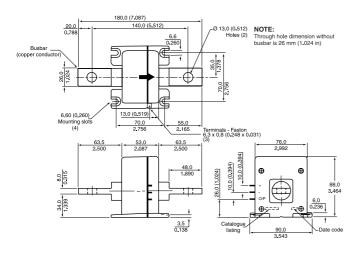
Bayblend KU2-1468 (UL94-V0) Panel, spade terminals x 3



SENSED CURRENT RANGE	COIL TURNS	SUPPLY VOLTAGE	REFERENCE
± 600 A	2000 (25 Ohm coil)	± 12 to ± 18 Vdc	CSNJ481
± 600 A (fitted with busbar)	2000 (25 Ohm coil)	± 12 to ± 18 Vdc	CSNJ481-001

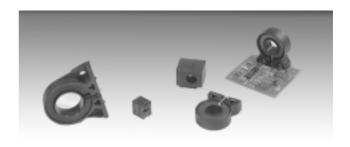
Large housed style Housing material: Mounting:

Bayblend KU2-1468 (UL94-V0) Panel, spade terminals x 3



SENSED CURRENT RANGE	COIL TURNS	SUPPLY VOLTAGE	REFERENCE
± 1200 A	5000 (50 Ohm coil)	± 15 to ± 24 Vdc	CSNK591
± 1200 A (fitted with busbar)	5000 (50 Ohm coil)	± 15 to ± 24 Vdc	CSNK591-001

CSLA Series Open Loop Current Sensors

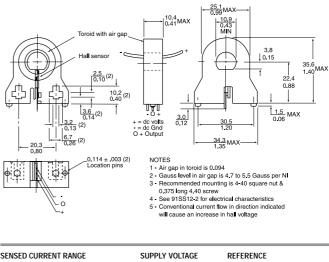


CS series linear current sensors incorporate our 91SS12-2 and SS94A1linear output Hall effect transducer (LOHET[™]). These sensors cover measuring ranges from 0-950 Amps. The sensing element is assembled in a printed circuit board mountable housing. This housing is available in four configurations. Normal 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.

Sensed current type:	ac or dc
Housing:	PBT Polyester

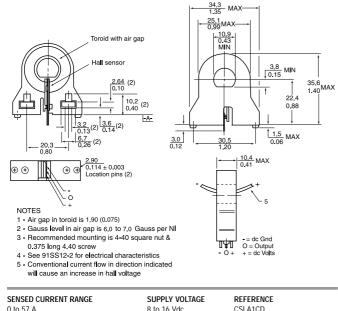
OPTIONS

PCB bottom mount

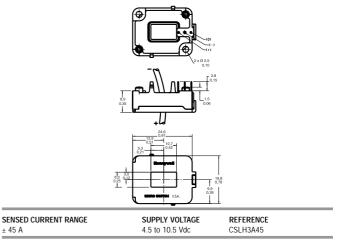


SENSED CURRENT RANGE	SUPPLY VOLTAGE	REFERENCE	
0 to 75 A	8 to 16 Vdc	CSLA1DE	
0 to 92 A	6 to 12 Vdc	CSLA2DE	
0 to 150 A	6 to 12 Vdc	CSLA2DG	
0 to 225 A	8 to 16 Vdc	CSLA1DJ	
0 to 225 A	6 to 12 Vdc	CSLA2DJ	
0 to 325 A	8 to 16 Vdc	CSLA1DK	
0 to 400 A	6 to 12 Vdc	CSLA2DK	

PCB bottom mount



PCB side mount

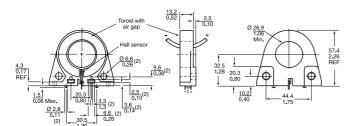


Digital current sensor

 \pm 45 A

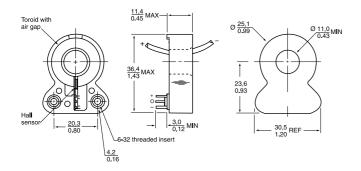
0 to 150 A	8 to 16 Vdc	CSLA1CH
0 to 100 A	8 to 16 Vdc	CSLA1CF
0 to 72 A	6 to 12 Vdc	CSLA2CD
0 10 37 A	01010 Vuc	COLATED

PCB bottom mount

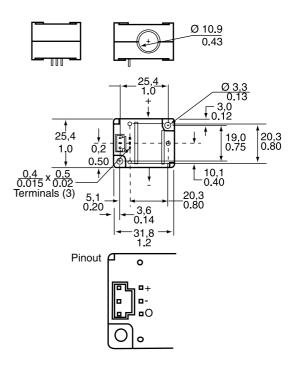


SENSED CURRENT RANGE	SUPPLY VOLTAGE	REFERENCE
0 to 310 A	6 to 12 Vdc	CSLA2EJ
0 to 550 A	6 to 12 Vdc	CSLA2EL
0 to 625 A	8 to 16 Vdc	CSLA1EL
0 to 765 A	6 to 12 Vdc	CSLA2EM
0 to 950 A	6 to 12 Vdc	CSLA2EN

PCB side mount

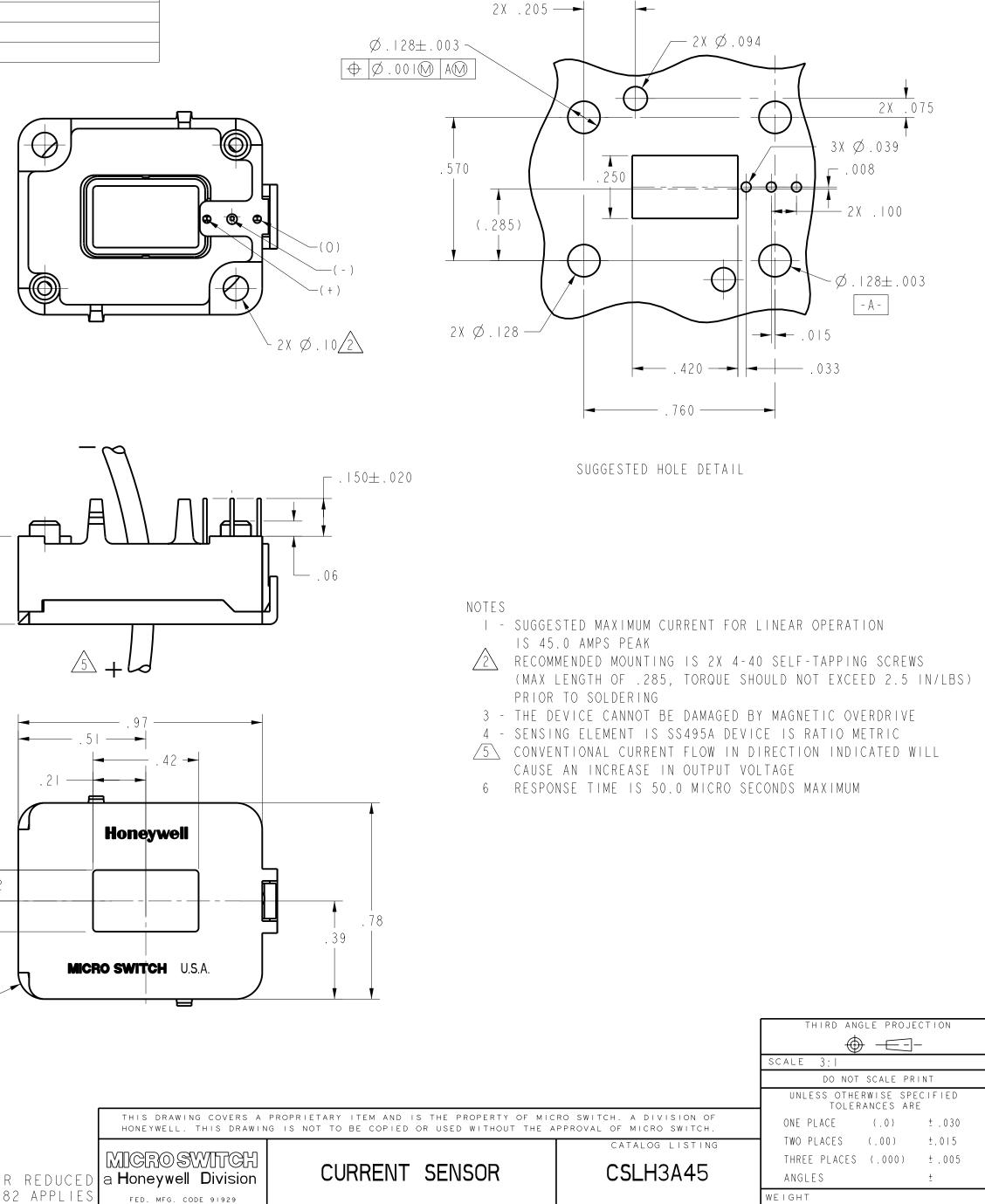


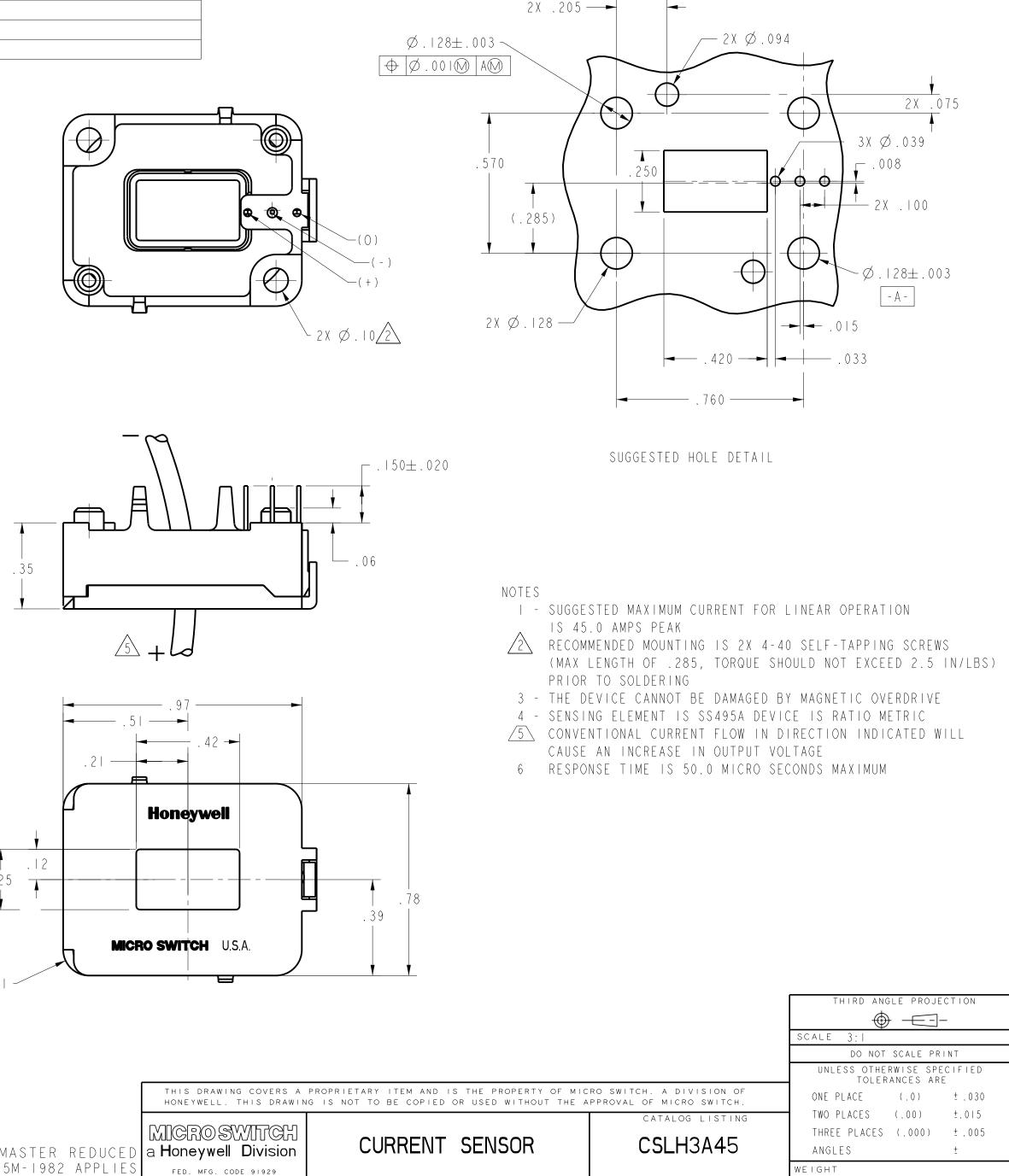
SENSED CURRENT RANGE	SUPPLY VOLTAGE	REFERENCE
0 to 57 A	8 to 16 Vdc	CSLA1GD
0 to 72 A	6 to 12 Vdc	CSLA2GD

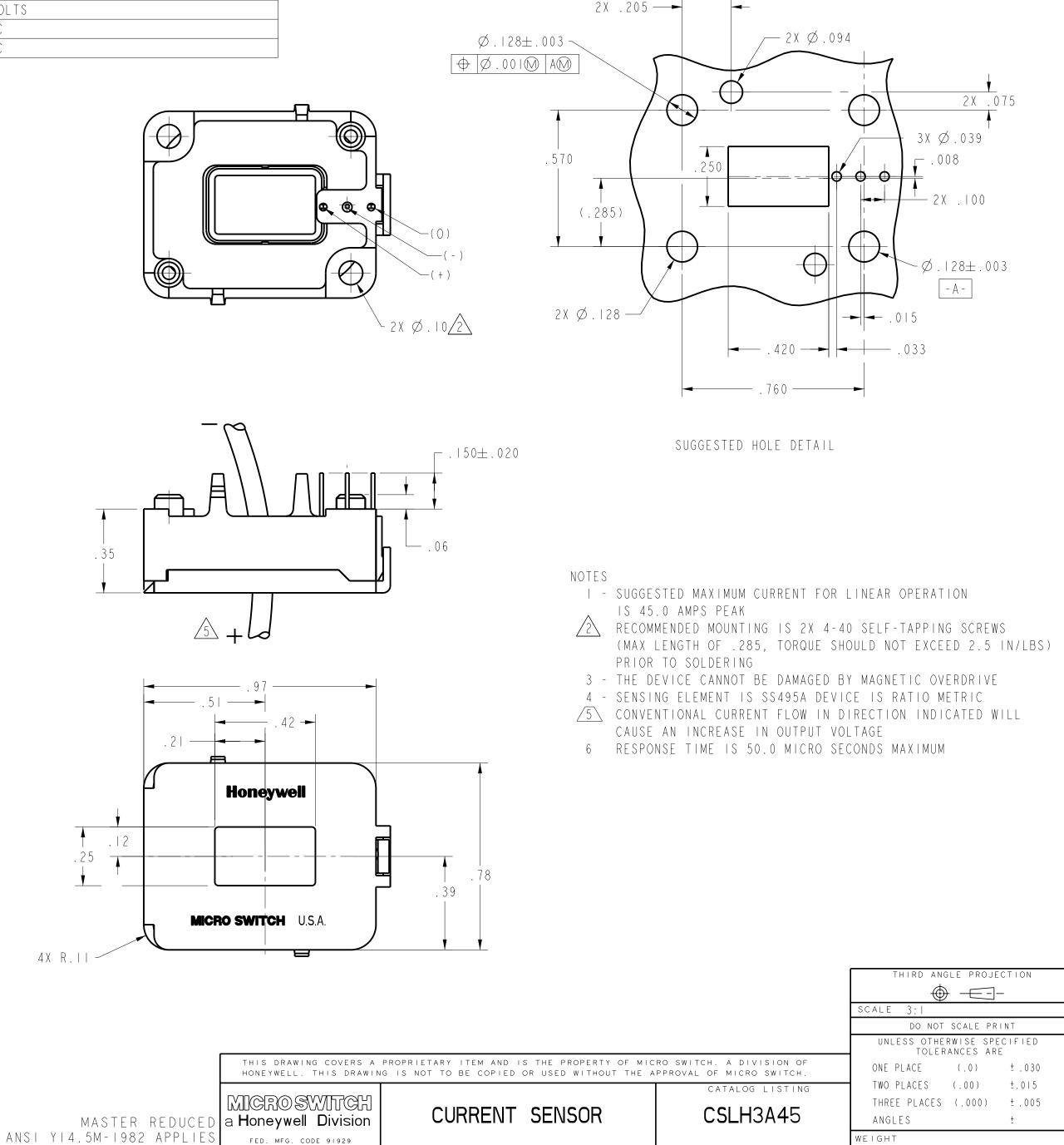


3.5 A.t Nominal 6 to 16 Vdc CSDA1BC	OPERATE CURRENT	SUPPLY VOLTAGE	REFERENCE
	3.5 A.t Nominal	6 to 16 Vdc	CSDA1BC

	CHARACTERISTICS								
PARAMETER	MIN	ТҮР	МАХ	UNITS	CONDITIONS/REMARKS				
SUPPLY VOLTAGE	4.5	5.0	10.5	VOLTS	-25°C TO 85°C				
SUPPLY CURRENT		7.0	11.0	тA	MAX @ -25°C TYP @ 25°C, Vs = 5.0V EXCLUDES LOAD				
OUTPUT CURRENT		Ι.5		тA	SINKING OR SOURCING @ 5.0V (.6mA @ 4.5 VOLT)				
OUTPUT VOLTAGE SWING	(-∀)+.4		(+V)4	VOLTS					
SENSITIVITY	15.0		22.0	mV/NI	@ Vs = 5.0 VOLTS & 25°c				
LINEARITY	0		%	% OF SPAN	DEV FROM STR LINE FROM -I MAX TO + I MAX 🔼				
Vout @∅ NI	.5(Vs)-4%		.5(VS)+4%	VOLTS	25°C @ 5.0 VOLTS				
TEMP ERROR - NULL	06		+.06	%/°C	-25°C TO 85°C				
TEMP ERROR - GAIN	03		+.04	%/°C	-25°C TO 85°C				







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CSLH3A45

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 Volt.	Supply Current	Sensed Current (Amps	nt Offset mV•N*		I* Í	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

Catalog	Mtg. Dim.	Supply Volt.	Supply Current	Sensed Current (Amps	Offset Volt.	Sensitiv mV•N ³ At 8 VD	<i>د</i> آ	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.

* N = number of turns

Solid State Sensors

Linear Current Sensors

SIDE MOUNT WITH 9SS SENSOR, SOURCE OUTPUT

	Mtg. Dim. Fig.	Supply Volt. (Volts DC)	Supply Current (mA Max.)	Current (Amps Peak)	Sensed Offset Volt. (Volts±10%)	Sensitivity			
Catalog Listing						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	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.

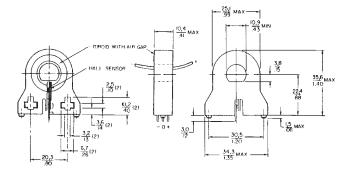
*N = number of turns.

MOUNTING DIMENSIONS (for reference only)

Figure 1

Figure 2

Figure 2a



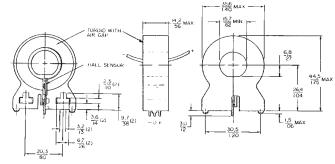
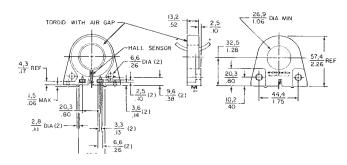
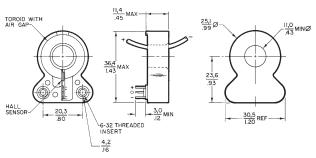


Figure 1a





* 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.