

Interactive Catalog Replaces Catalog Pages

Honeywell Sensing and Control has replaced the PDF product catalog with the new **Interactive Catalog**. The **Interactive Catalog** is a power search tool that makes it easier to find product information. It includes more installation, application, and technical information than ever before.



**Click this icon to try the new
Interactive Catalog.**

Sensing and Control

Honeywell Inc.

11 West Spring Street

Freeport, Illinois 61032



FEATURES

- Linear output
- AC or DC current sensing
- Through-hole design
- Fast 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

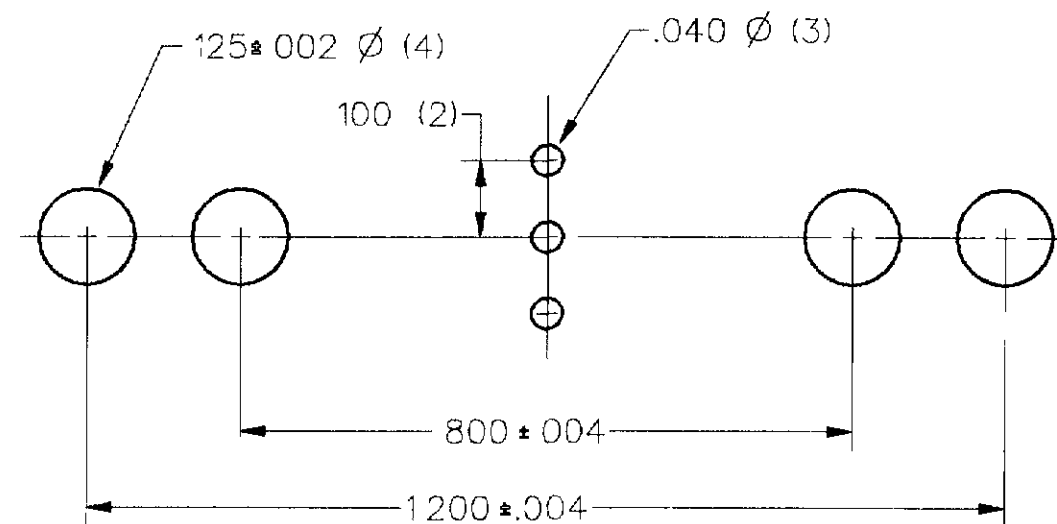
Catalog Listing	Mtg. Dim. Fig.	Supply Volt. (Volts DC)	Supply Current (mA Max.)	Sensed Current (Amps Peak)	Offset Volt. (Volts ±10%)	Sensitivity mV·N* At 12 VDC		Offset Shift (%/°C)	Response Time (μ Sec.)
						Nominal	± TOL		
CSLA1CD	1	8 to 16	19	57	V _{cc} /2	49.6	5.8	±.05	3
CSLA1CE	1	8 to 16	19	75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

BOTTOM 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 (%/°C)	Response Time (μ Sec.)
						Nominal	± TOL		
CSLA2CD	1	6 to 12	20	72	V _{cc} /2	32.7	3.0	±.02	3
CSLA2CE	1	6 to 12	20	92	V _{cc} /2	26.1	2.1	±.02	3
CSLA2DE	2	6 to 12	20	92	V _{cc} /2	25.6	2.2	±.02	3
CSLA2CF	1	6 to 12	20	125	V _{cc} /2	19.6	1.3	±.02	3
CSLA2DG	2	6 to 12	20	150	V _{cc} /2	16.2	1.1	±.02	3
CSLA2DJ	2	6 to 12	20	225	V _{cc} /2	8.7	0.6	±.020	3
CSLA2DH	2	6 to 12	20	235	V _{cc} /2	9.8	1.1	±.0125	3
CSLA2EJ	1a	6 to 12	20	310	V _{cc} /2	7.6	0.7	±.0125	3
CSLA2DK	2	6 to 12	20	400	V _{cc} /2	5.8	0.5	±.0125	3
CSLA2EL	1a	6 to 12	20	550	V _{cc} /2	4.3	0.4	±.0125	3
CSLA2EM	1a	6 to 12	20	765	V _{cc} /2	3.1	0.3	±.007	3
CSLA2EN	1a	6 to 12	20	950	V _{cc} /2	2.3	0.2	±.007	3

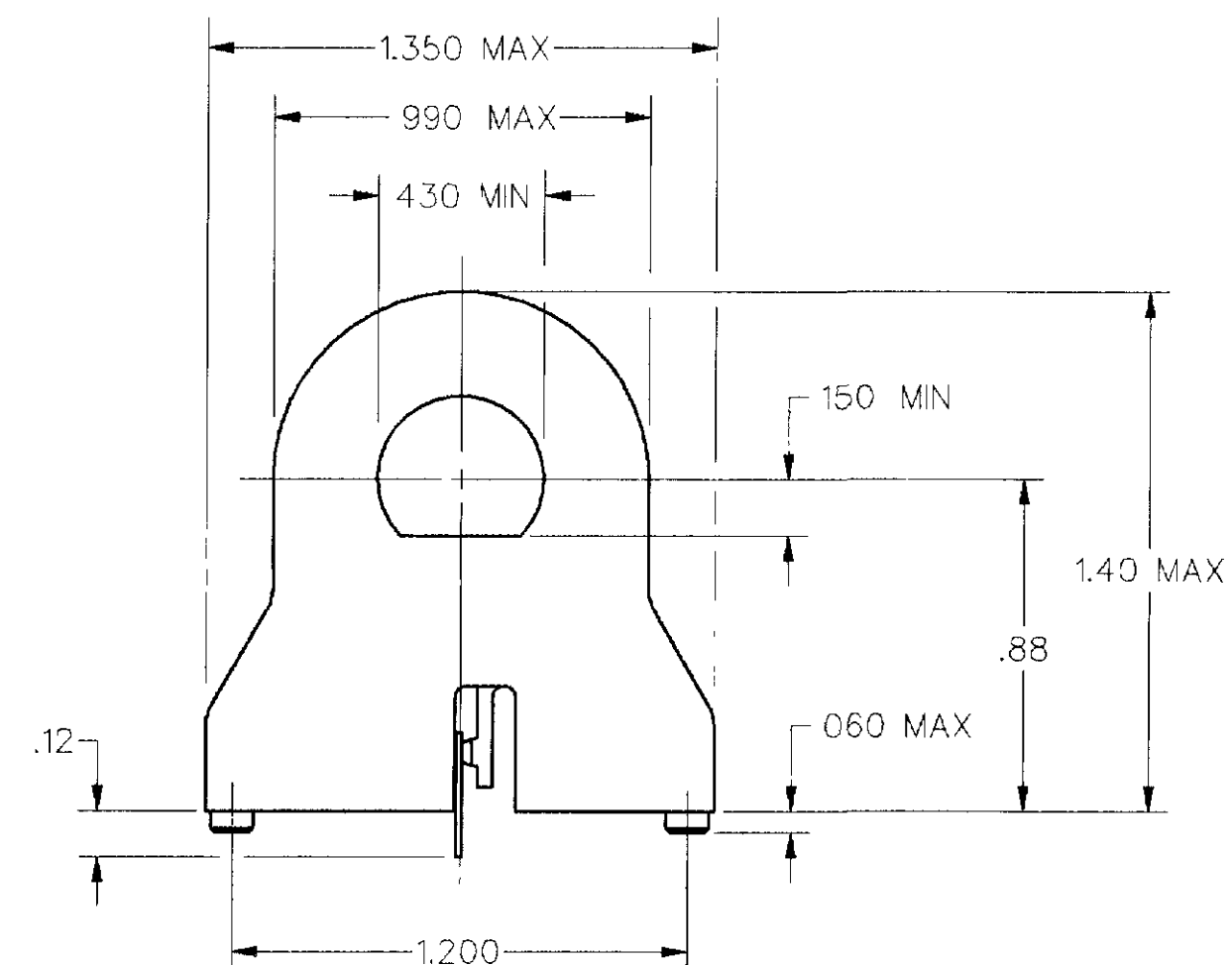
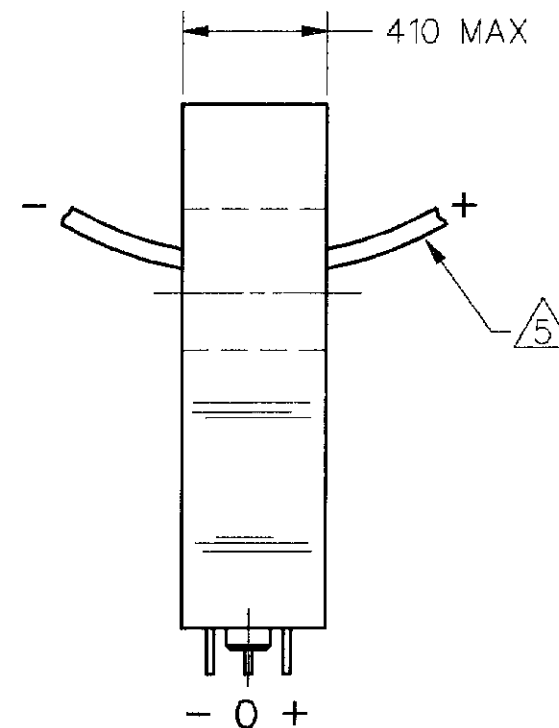
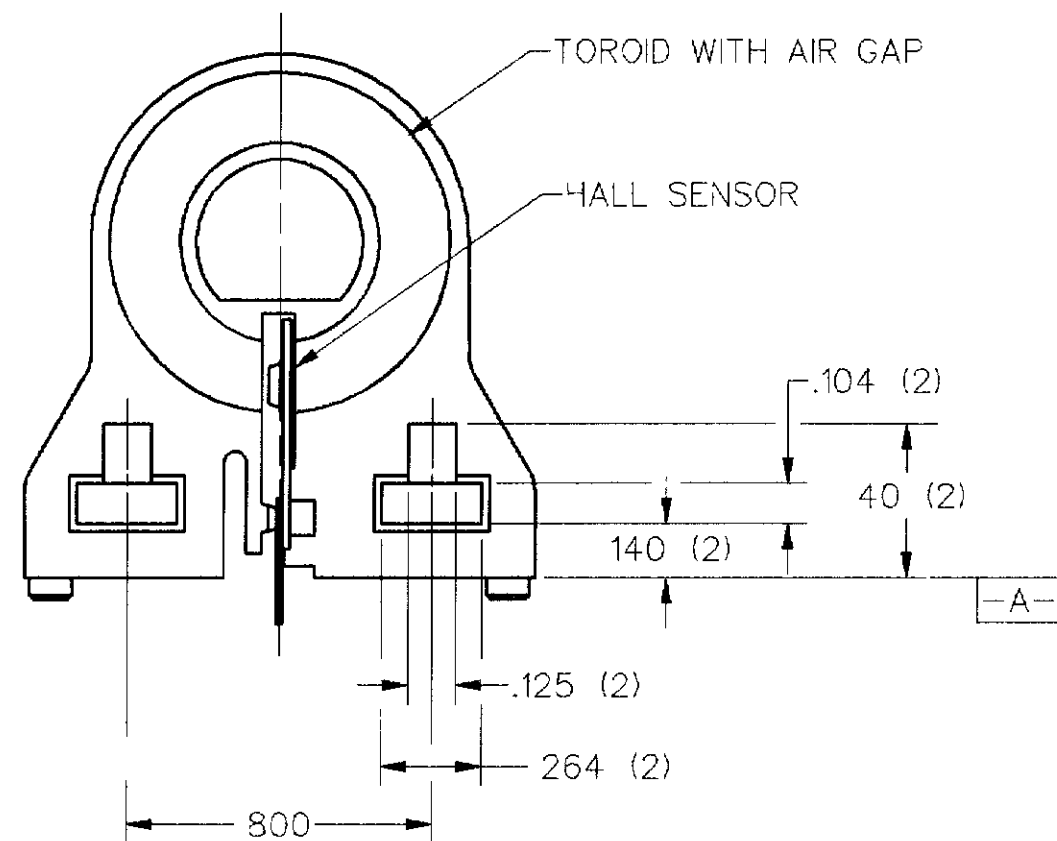
NOTE: When monitoring purely AC current with zero DC component, a capacitor can be inserted in series with the output of the current sensor. The capacitor will block out the effect of the temperature variation of the offset voltage which increases the accuracy of the device.

* N = number of turns



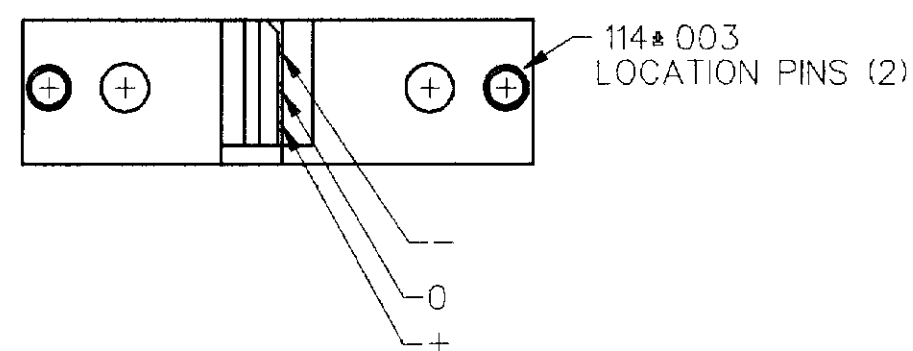
SUGGESTED HOLE CENTERS

SCALE 4:1



NOTES

- 1 - AIR GAP IN TOROID IS .178
 - 2 - GAUSS LEVEL IN AIR GAP IS 2.45 TO 2.70 GAUSS PER NI
 - 3 - RECOMMENDED MOUNTING IS 4-40 SQUARE NLT AND .375 LONG 4-40 SCREW
 - 4 - SEE 91SS12-2 FOR ELECTRICAL CHARACTERISTICS
- △5 CONVENTIONAL CURRENT FLOW IN DIRECTION INDICATED WILL CAUSE AN INCREASE IN HALL VOLTAGE



DRAWING NUMBER: CSLA1CH
 RELEASE NO.: PR-13833
 REPLACES: X80334-CS
 ISSUE: 4
 CHECK: SAV
 DATE: 6 MAR 00
 DRAWN: DLM
 DATE: 6 MAR 00
 FORMTEK



MASTER REDUCED

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CURRENT SENSOR

CATALOG LISTING
CSLA1CH

FED. MFG. CODE 91929

THIRD ANGLE PROJECTION		
SCALE 2:1		
DO NOT SCALE PRINT		
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE		
ONE PLACE	(.0)	±.030
TWO PLACES	(.00)	±.015
THREE PLACES	(.000)	±.005
ANGLES		±
WEIGHT		