

# Product Specification

## SPECIFICATION FOR 10VDC OUTPUT AC CURRENT SENSOR

**Model number**

EO30-30A-10VDC-60HZ (Fast Response)

<b>Absolute stress above which the unit may be damaged.</b>	<b>Min.</b>	<b>Max.</b>	<b>unit</b>	
Ambient temperature	-40	80	°C	
Measured current		400	A-rms max.	
Shock (any axis)		2500	g	
<b>Range over which operation is guaranteed.</b>	<b>Min.</b>	<b>Max.</b>	<b>unit</b>	
Ambient temperature	-5	70	°C	
Frequency	59	61	Hz	
Total harmonic distortion of sensed current (Note 2)		3.0	percent	
Vibration (1Hz-10kHz)		200	g	
<b>Operating parameters.</b>	<b>Min.</b>	<b>Typ.</b>	<b>Max.</b>	<b>unit</b>
Input current	0.0	30.0	36.0	A-rms
Output voltage	0	10.0	12.0	V dc
Output impedance (Note 1)		36.0		k
Load impedance, undamaged 0 to load (Note 1)	0		Infinity	
Sensor internal resistance		30.3		k
Thermal coefficient, potting B		0.077		%/°C
Rise time constant		35		msec
Fall time constant		50		msec
<b>Physical</b>	<b>Min.</b>	<b>Typ.</b>	<b>Max.</b>	<b>unit</b>
Current wire hole size		0.99	0.99	inch
Depth		1.0		inch
Height		2.5		inch
Width		2.3		inch
Weight		168		grams
Polarized output wire leads		12		inch
Flammability, 94 V-O, self extinguishing				

- Note 1** Sensors are calibrated with 500 k  $\pm$  2%/300 pf. instrumentation capacity.
- Note 2** Sensor response nearly identical for all waveforms,sine,square, or triangle;(except triacs).
- Note 3** The sensor output impedance is approx. 36k //0.47uf.
- Note 4** Maximum output current obtained by dividing output volts by sensor internal resistance.
- Note 5** Sensors are powered by current being measured.

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Inductive AC voltage and current sensors