

### Features:

The OSM-RMS333DCX.X is a 333mVrms (max input 1Vrms) to DC output transducer. The module is designed to work with standard 0-333mVrms current transformers, potential transformers, sensors, and many different types of panel meters. With its compact size, ultra low power requirements, and wide range of voltage inputs, it can be configured into many project designs with ease. The module comes preprogrammed for output values of 0.2, 2, 2.5, 3.3 and 5VDC. Custom output values with a max output between 0.2V to 5V can be ordered.



- ✓ Ultra Low Operating Power 1.35mW
- ✓ Wide Operating Temperature -20°C to +70°C
- ✓ Good Linearity and Accuracy 0.5%
- ✓ Compact Form Factor 1.378" x 1.378" x 0.787"
- ✓ Custom Voltage Output Ranges 0.2-5VDC
- ✓ Potted For Industrial Environments
- ✓ Good Response Time 1 sec.
- ✓ Low Ripple Output 0.01%

### Dimensions:

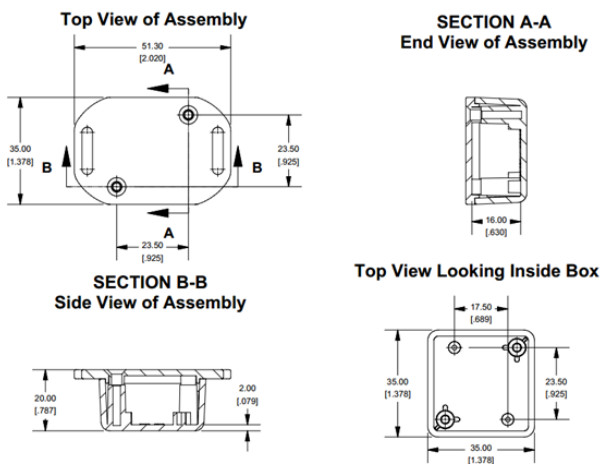


Figure 1 OSM-RMS333DCXXX Transducer Dimensions mm(inch)

### Specifications:

Type	Parameter	Value	Units
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### Ordering Information:

Part Number	Input Range	Output
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<b>Inputs</b>			
<i>Vrms Input Range</i>	<b>0-0.333</b>	Vrms	OSM-RMS333DC0.2 0-0.333Vrms 0-2VDC
<i>Vrms Max Range</i>	<b>1</b>	Vrms	OSM-RMS333DC2.0 0-0.333Vrms 0-2VDC
<b>Outputs</b>			OSM-RMS333DC2.5 0-0.333Vrms 0-2.5VDC
<i>VDC Output Range</i>	<b>0-0.2</b>	VDC	OSM-RMS333DC3.3 0-0.333Vrms 0-3.3VDC
	<b>0-2</b>	VDC	OSM-RMS333DC5.0 0-0.333Vrms 0-5VDC
	<b>0-2.5</b>	VDC	OSM-RMS333DCXXX 0-0.333Vrms Custom
	<b>0-3.3</b>	VDC	
	<b>0-5</b>	VDC	
<b>Performance</b>			
<i>Linearity Accuracy</i>	<b>0.5</b>	%	
<i>Response Time</i>	<b>1</b>	Sec	
<i>Ripple</i>	<b>0.01</b>	%	
<i>Bandwidth</i>	<b>40-400</b>	Hz	
<i>Output Resistance</i>	<b>1000</b>	Ohm	
<b>Environment</b>			
<i>Min Operating Temp</i>	<b>-20</b>	°C	
<i>Max Operating Temp</i>	<b>+70</b>	°C	
<i>Potting</i>	<b>YES</b>		
<b>Power Supply</b>			
<i>Min Input Voltage</i>	<b>3.1</b>	VDC	
<i>Max Input Voltage</i>	<b>35.0</b>	VDC	
<i>Power Requirement</i>	<b>1.35</b>	mW	
<b>Mounting</b>			
<i>Surface Mount</i>	<b>YES</b>		
<i>Strap Mount</i>	<b>YES</b>		
<b>Connection</b>			
<i>Connector Size</i>	<b>3.5</b>	mm	
<i>Connector Wire</i>	<b>14-30</b>	AWG	
<b>Dimensions</b>			
<i>Height</i>	<b>20(0.787)</b>	mm(inch)	
<i>Width</i>	<b>35(1.378)</b>	mm(inch)	
<i>Length</i>	<b>35(1.378)</b>	mm(inch)	
<b>Compliance</b>			
<i>FCC</i>	<b>YES</b>		
<i>IC</i>	<b>YES</b>		
<i>CE</i>	<b>Pending</b>		

**Wiring:**

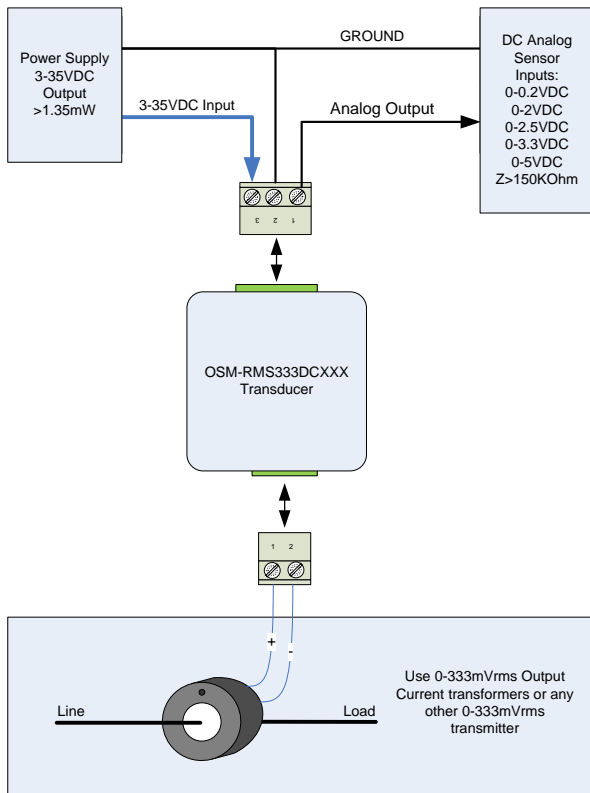


Figure 2 OSM-RMS333DCXXX Transducer Wiring Diagram

### Application Information:

For use with a 333mVrms transmitter, when the transmitter is at the rated high output of 333mVrms the transducer will produce a corresponding high rated DC Output from of 0.2, 2, 2.5, 3.3 or 5V analog output. For example when using a 1000A 333mVrms output current transformer and an OSM 333RMSDC2.0, a 2.0VDC output on the analog output corresponds to a 1000A load. Use Magnelab SCT and UCT series Current transformers; these transformers are ideally suited for the OSM333RMSDC2.0 transducer.