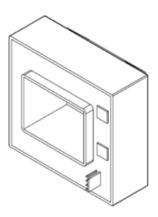
Current Transducer

Model CTV140





APPLICATION

For measurement of RMS AC and DC currents using Hall effect technology. Used in a wide range of current sensing applications where reliability and safety are a priority.

FEATURES

- Adjustale gain
- Adjustable offset
- Overcurrent measurement capability
- Galvanic isolation between primary and secondary circuits
- High immunity to external interference

UNIT SELECTION

tbPart Number	Nominal Current (A)	Maximum Current (A)	Output Voltage at Nominal (V)	Accuracy (%)
CTV140R601	600	1800	4	1
CTV140R801	800	2400	4	1
CTV140R102	1000	2500	4	1
CTV140R152	1500	2500	4	1
CTV140R202	2000	3500	4	1

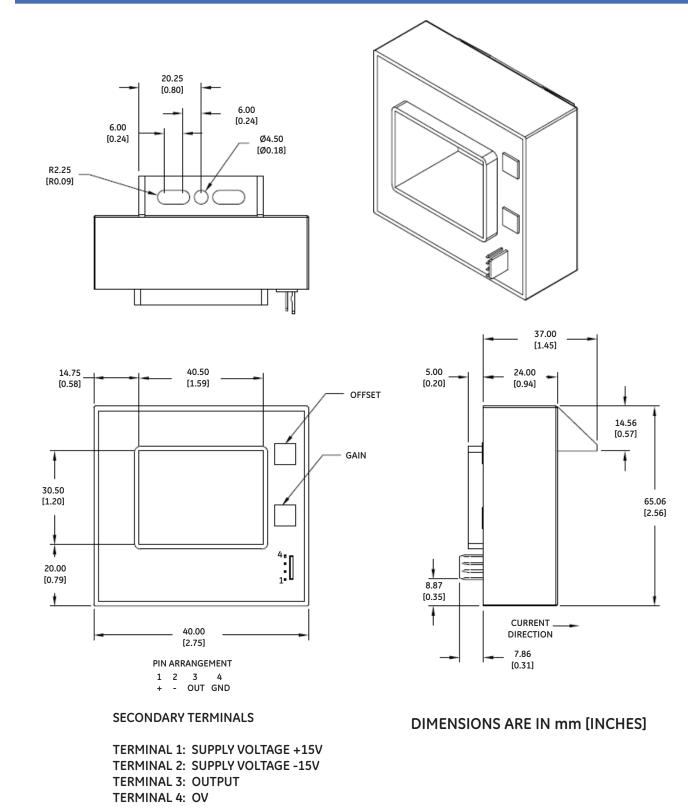
Current Transducer

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ELECTRICAL INFORMATION:

Specifications:		
Voltage Supply	±15V	
Current Consumption	<15mA	
Voltage Output @ I _{pn} , R _l =10kΩ, T _a = 25°C	±4V	
Accuracy	±1% FS Max	
Frequency	DC thru 15kHz	
Load Resistance	>10kΩ	
Isolation Resistance@ 500VDC	>1000MΩ	
Electrical Offset Voltage ($T_a = 25^{\circ}C$)	<20mV	
Magnetic Offset Voltage	<30mV	
$(I_p = 0; after an excursion of 3X I_{pn})$	<±1% FS Max	
Linearity Error @ 0-I _{pn}		
Response Time to 90% of I _{pn}	<5 _{µs}	
d _i /d _t accurately followed	>75A/ _{US}	
Other:		
Ambient Operating Temp (°C)	-25 thru +65	
RMS voltage for AC isolation test, 50Hz, 1min	5kV	
Impulse withstand voltage 1.2/50 _{µs}	12kV BIL full wave	
Creep distance d _{cp}	>15.5 mm	
Clearance distance d _{cl}	>10.5 mm	
Approx. weight	318g (0.7 lbs.)	
Applicable Standards:		
• EN 50178,		
• EN 61000-6-4		
• IEC 61010-1, 3rd Ed.		
• UL 61010-1, 2nd Ed.		
• UL 94-V0		
CTI Comparative Tracking Index (group IIIa)	>250	
Over voltage Category: OV3		
Pollution Degree: PD2		
Non-Uniform Field		

Current Transducer Model CTV140 DIMENSIONS:



Current Transducer

CONSTRUCTION DETAILS:

Advantages

Easy installation. One footprint for sensing of wide range of currents. Low power consumption.

Polarity

A permanent laser printed arrow designates direction of current flow. Arrow is black and situated on top of the unit for better visibility.

Current Maximum Rating

The maximum primary current rating for each transducer is listed in the model datasheet. This is typically 2-3 times the unit nominal current.

Mounting

Provisions provided as per drawing. Can be mounted in any orientation.

Applicable Standards

Units are UL recognized, meet RoHS requirements and are CE compliant.

Safety Remarks

Transducer must be used in accordance to applicable standards. When operating the transducers, certain parts can carry hazardous voltages (e.g. primary bus-bar, power supply, etc.). Ignoring this warning can lead to injury and/or cause serious damage, including electrical shock. The transducer is a built-in device, whose conducting parts must be inaccessible after installation. Main supply must be able to be disconnected.

Maintenance

These transducers require no maintenance other than an occasional cleaning if installed in an area where air contamination is severe.

North America / Worldwide

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