



# 335-2040-500 Linear/Rotary Variable Differential Transformer Simulator Card

## Features

- For ratiometric 5-wire simulation, wire up to all five signals directly
- For open 4-wire simulation, tie OUT A and OUT B together
- A set of envelope detectors track the amplitude of the excitation and output lines

## Summary

Phillips' Linear/Rotary Variable Differential Transformer Simulator Card (L/RVDT) is a daughtercard module that plugs into a Phillips ICX carrier card. As such, the L/RVDT Simulator card is one of several plug-in modules that change the type and function of the ICX card in order to support different test interfaces.

The L/RVDT Simulator card supports 4 channels of sensor and monitoring. Each channel can be non-excitation sensor monitor. The L/RVDT Simulator card configuration identifier is 0x09.

## Specifications

### I/O Control:

Configuration: 4 programmable L/RVDT simulation channels

Individual and independent control per channel

Excitation source voltage range: +/-12Vp-p (8.4Vrms) max

Max continuous current: +/-50mA

Modes per channel: Auto range resistance, manual range resistance, high impedance

I/O ESD Protection: 2kV per Method 3015.7

### Input:

Excitation Input Range: Input impedance: 6800hms

High impedance leakage current: 100uAdc max

Channel at reset: High impedance

Throughput rate: >300 Hz, all output channels simultaneously updated

### Output:

Output range: 0Vrms to excitation source voltage, 8.4Vrms max

Attenuation resolution: (excitation source voltage Vrms) /512 Vrms per step

Output impedance: 1000hms

### Monitoring Inputs:

ADC resolution: 12-bits

Input range: +/-50V

Least Significant Bit: 25mV

Detection filter set to 100Hz

### Environmental:

Operating temperature: 0 to 70 deg C

Storage temperature: -55 to 100 deg C

Relative humidity: 5 to 95% non-condensing

## Ordering Information

Hardware

335-2040-500