2553-A 2-Channel Isolated Mag Meter Input Module

Description
The 2553-A 2-Channel Mag Meter Input Module rapidly measures the frequency of a magnetic pulse tachometer with high resolution. It is designed to be compatible with the CTI 2500 Series™ or Simatic® 505 I/O base in local, remote I/O, and Profibus configurations.

Fast update time and high accuracy across the full frequency specification make the 2553-A ideal for gas turbine speed measurement applications.

Features
- Reflex counter
- N-tooth mode counting
- 1500 VDC isolation channel-to-channel
- 1500 VDC isolation channel-to-backplane
- Reports measurement in frequency or period

Specifications
- Channels: 2 Isolated Mag Meter Inputs
- Input Voltage Range: 140 mV to 50 VRMS (differential input into 10 KΩ)
- 200 mV to 70 V Peak
- Input Frequency Range: 78 Hz to 65 KHz
- Frequency Roll-Off: 3 dB at 20 KHz
- 6 dB per octave
- Input Protection: 50 VRMS continuous
- 20,000 Volts ESD
- Digital Filtering: User-selectable (50 mS Time Constant)
- Update Time: 7 mSec for all channels
- Accuracy: ±1 Hz
- Isolation: 1500 VDC channel-to-channel
- 1500 VDC channel-to-PLC
- Connector: Removable
- Wire Gauge: 12 -26AWG
- Backplane Power: 2.5 Watts @ +5 VDC
- Module Size: Single-wide
- Shipping Weight: 1.5 lbs (0.68 Kg)

Additional Product Information:
On CTI’s Website you find will links to the 2500 Series Std Environmental Specifications and the UL Agency Certificates of Compliance.
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Typical Sensor Wiring Diagram

2553-A Connector Diagram

Closed Loop Control Application

ROCK SOLID PERFORMANCE. TIMELESS COMPATIBILITY.