2554-A 4-Channel High-Speed Counter Input Module

Description

The 2554-A is a 4-channel isolated high-speed counter input module designed to be compatible with the CTI 2500 Series or Simatic® 505 I/O base. The 2554-A operates in three selectable modes: frequency, period, or general counter. In addition, two channels may be configured together for quadrature mode operation.

The 2554-A is extremely useful when there is a requirement to measure rapidly changing pulse inputs with a high degree of accuracy and convert them to counts, frequency, or period measurements. The module can also trigger external events based on preset counter values and auto-reset the count without missing an input pulse.

Application

The 2554-A is ideally suited for precise position measurement applications where an external edge reset is required. Other applications such as continuous flow monitoring and interface to encoders are targeted with the 2554-A.

Specifications

- **Maximum Input Frequency**: 65 KHz
- **Input Protection**: 50 VRMS continuous 20,000 Volts ESD
- **Filtering Time Constant**: 0.3 Sec (digital filtering enabled)
- **Update Time**: 100 mSec for all four channels
- **Discrete Outputs**: 4 (one per channel)
  - 11 to 60 VDC, 1.5A, fused

  **Fuse**: 3A, 250V (Littlefuse 2173.15 or Bussman GMA-3A)

- **Isolation**: 1500 VDC channel-to-channel
  - 1500 VDC channel-to-PLC
- **Connectors**: Requires 2500-40F
- **Wire Gauge**: 14-22 AWG
- **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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**CAUTION – Non-Hazardous Areas/Hazardous Areas**

| WARNING – EXPLOSION HAZARD. DO NOT REMOVE OR REPLACE WHILE CIRCUIT IS LIVE UNLESS THE AREA IS FREE OF IGNITIBLE CONCENTRATIONS. | AVERTISSEMENT – RISQUE D’EXPLOSION. NE PAS RETIRER NI REMPLACER PENDANT QUE LE CIRCUIT EST SOUS TENSION À MOINS QUE L’EMPLACEMENT NE SOIT EXEMPT DE CONCENTRATIONS INFLAMMABLES. |
| WARNING – EXPLOSION HAZARD. DO NOT REMOVE OR REPLACE FUSE WHEN ENER-GIZED. | AVERTISSEMENT – RISQUE D’EXPLOSION. NE PAS RETIRER NI REMPLACER UN FUSIBLE SI L’APPAREILGAGE EST SOUS TENSION. |

Turn off power to the system before replacing fuses either in power supplies or IO modules. Refer to Product Bulletin or Installation and Operation Guide for specific information on the correct fuse for replacement. If there are any questions please contact CTI support. Fuses should only be replaced by qualified technicians.