

3501E Manual

Brand	-
Product Series	other
Product Type	TMR

Description

3501E | Triconex | Digital Input Module Opto-Isolated, Non-Commoned

Each TMR Digital Input (DI) module has three isolated input channels which independently process all data input to the module. A microprocessor on each channel scans each input point, compiles data, and transmits it to the Main Processors upon demand. Then input data is voted at the Main Processors just prior to processing to ensure the highest integrity. All critical signal paths are 100 percent triplicated for guaranteed safety and maximum availability. Each channel conditions signals independently and provides optical isolation between the field and the Tricon.

All TMR Digital Input Modules sustain complete, ongoing diagnostics for each channel. Failure of any diagnostic on any channel activates the module Fault indicator, which in turn activates the chassis alarm signal. The module Fault indicator points to a channel fault, not a module failure. The module is guaranteed to operate properly in the presence of a single fault and may continue to operate properly with certain kinds of multiple faults.

Type TMR

Voltage 115 VAC/VDC

Points 32, non-commoned, isolated

AC Range/DC Range 90-155 VAC/VDC

Frequency Range DC or 47-63 Hz

Maximum Voltage 155 VAC/VDC

Switching Level

OfftoOn > 86 VAC/VDC

OntoOff < 28 VAC/VDC

Nominal Turn-On 6-9 mA

Typical Hysteresis 32 VAC/VDC

Input Delay

OFF to ON/ON to OFF < 8 ms/< 15 ms

Point Isolation 1,500 VDC/ 2500 VDC

Nominal Input Impedance > 8.5 K Ω

Nominal Field Power Load

Per On point 1.5 watts

@max. field voltage 2.9 watts

Diagnostic Indicators

Input Status 1 per point

Module Status PASS, FAULT, ACTIVE

Stuck Test n/a

Color Code Red

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