

Triconex 3501T Manual

Brand	Triconex
Product Series	Triconex
Product Type	Voltage: TMR, 115 VAC/VDC

Description

Triconex 3501T Digital Input Module 115 VAC/VDC Opto-Isolated, Non-Commoned

Type Voltage: TMR, 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

OFF to ON: > 86 VAC/VDC

ON to OFF: < 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: 1500 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

Commoned Term Panels: 9561-810

Non-Common. Term Panels: 9561-110

Basic Term Panels: 9551-110

Nonincendive Term Panels: n/a

Fanned-out Cables: 9101-010

Bypass Panels: n/a

ERT LoopBack Cables/Panels: 9141-010

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

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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.

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