

Triconex 3505E Manual

Brand	Triconex
Product Series	Triconex
Product Type	Voltage: TMR, Low Threshold 24 VDC

Description

Triconex 3505E Digital Input Module

Type Voltage: TMR, Low Threshold 24 VDC

Points: 32, commoned in groups of 8

AC Range/DC Range: 20-42.5 VDC

Frequency Range: n/a

Maximum Voltage: 42.5 VDC

Switching Level

OFF to ON: > 12 VDC

ON to OFF: < 4 VDC

Nominal Turn-On: 3 mA to 5 mA

Typical Hysteresis: 2 VDC

Input Delay

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

Point Isolation: 1500 VDC

Nominal Input Impedance: > 1.25 K Ω

Nominal Field Power Load Per ON point: 0.5 watts

@ max. field voltage: 1.5 watts

Diagnostic Indicators

Input Status: 1 per point

Module Status: PASS, FAULT, ACTIVE

Stuck Test: ON

Color Code: Dark Red

3505E can

self-test to detect stuck-ON conditions

where the circuitry cannot tell whether

a point has gone to the OFF state. Since

most safety systems are set up with a

de-energize-to-trip capability, the

ability to detect OFF points is an important feature. To test for stuck-ON

inputs, a switch within the input

circuitry is closed to allow a zero input

(OFF) to be read by the optical isolation

circuitry. The last data reading is frozen

in the I/O communication processor

while the test is running.

All TMR digital input modules support

hot-spare capability, and require a separate external termination panel (ETP)

with a cable interface to the Tricon

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backplane. Each module is mechanically keyed to prevent improper installation in a configured chassis.

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