MANUFACTURER DOCUMENT PACKAGE

# Manufacturer's Manual

Reference package for procurement and maintenance review

TRICONEX

## 7400208B-020 DI2301

**DIGITAL INPUT BASEPLATE**

Used with the applicable Triconex safety system configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Trident Planning Installation Guide

## Digital Input Module

The following digital input components are available.

| Model | Description | Voltage | Type |
|---|---|---|---|
| 3301 | Digital Input Module | 24 V DC | Commoned |
| 2301 | Digital Input Baseplate | | Direct Termination |

The Digital Input (DI) Module has three independent channels which process all data sent to the module. An ASIC on each channel scans each input point, compiles data, and transmits it to the MPs upon demand. Input data is voted at the MPs before processing to ensure the highest integrity.

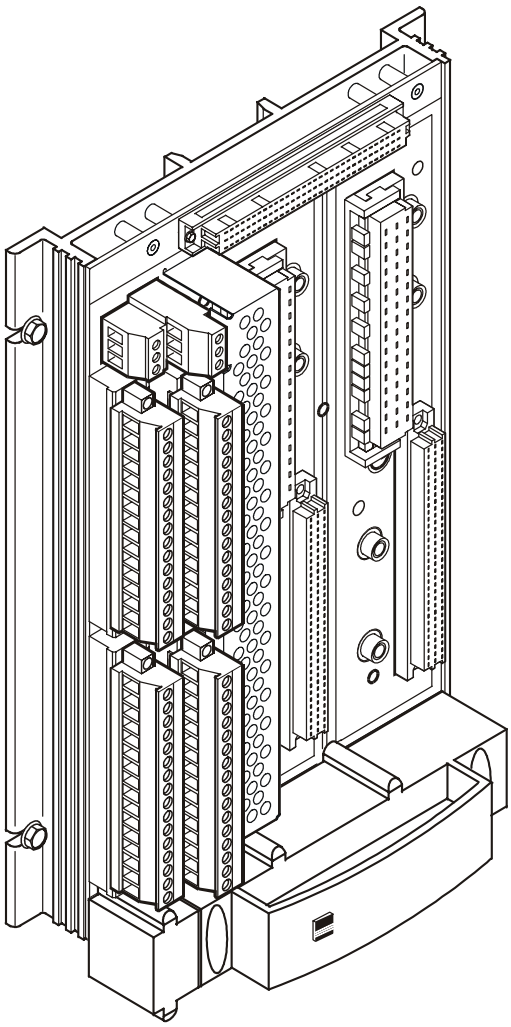
The DI Module sustains complete, ongoing diagnostics for each channel. If the diagnostics detect a failure on any channel, the Fault indicator is activated, which in turn activates the system alarm. The Fault indicator points to a channel fault, *not* a complete module failure. The DI Module is guaranteed to operate properly in the presence of a single fault and may continue to operate properly with certain multiple faults.

The DI Module continuously verifies the ability of the system to detect transitions to the opposite state. The DI Module supports hot sparing for online replacement of a faulty module or continuous back-up to an active module. The DI Module is mechanically keyed to prevent improper installation in a baseplate.

## Model 2301 Digital Input Baseplate

The following table lists the short circuit current specifications for field short-to-ground faults.

| Feature | Specification |
|---|---|
| Fault current | 130 mA, typical<br>200 mA, maximum |



### *Model 2301 Digital Input Baseplate Field Connections*