

# 2500 Series PLC System Product Bulletin

## 2588-8 8-Point Universal Discrete Input Module



### Specifications

**Inputs per Module:** 8

**Isolation:** 1500 VDC channel-to-backplane  
1500 VDC group-to-group

#### Input Voltage:

Range Setting	Operating Range
12/24V range	11 - 30 volts
48V range	40 - 56 volts
110V range	79 - 132 volts
220V range	164 - 265 volts

**Input Current:** AC: 2.1 - 3.6 mA  
DC: 2.5 - 4.3 mA

#### Operating Characteristics for Typical Input:

##### AC Voltage Input:

Turn ON Time: 4.0mS  
Turn OFF Time: 15.0mS

##### DC Voltage Input:

Turn ON Time: 1.0mS  
Turn OFF Time: 15.0mS

**Connector:** Removable

**Wire Gauge:** 14 - 22 AWG

**Backplane Power:** 1.8 Watts max.

**Module Size:** Single-wide

**Operating Temperature:** 0° to 60°C  
(32° to 140°F)

**Storage Temperature:** -40° to 85°C  
(-40° to 185°F)

**Relative Humidity:** 5% to 95%  
(non-condensing)

#### Agency Approvals Pending:

UL, ULC, FM (Class 1, Div.2), CE

**Shipping Weight:** 1.5 lb. (0.68 Kg)

### Description

The 2588-8 8-Point Universal Discrete Input Module accepts a wide range of voltage signals. It is designed to accept both AC and DC voltage allowing the user to pick and choose ranges on a single module. The 2588-8 can replace Siemens® 8 point input products with no rewiring. Motor centers, optical sensors, limit switches and utility control are excellent examples of applications for this product.

### Features

- CTI 2500 Series or Simatic® 505 base format
- 8 universal input points
- Replaces Siemens® 505-4008-A, 4208-A, 4308, and 4408-A with no rewiring
- 1500V channel-to-PLC backplane and group-to-group isolation
- Wide 11V to 250V AC/DC range (selectable by group)
- Isolation in groups of 2
- Sourcing or sinking inputs
- Single-wide module



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### Isolation Configuration

On the 2588-8, two channels share a common return path. In other product variants, jumpers J3-J6 are would be populated to provide options for different isolation configurations.

### Front Panel Connector Wiring Diagram

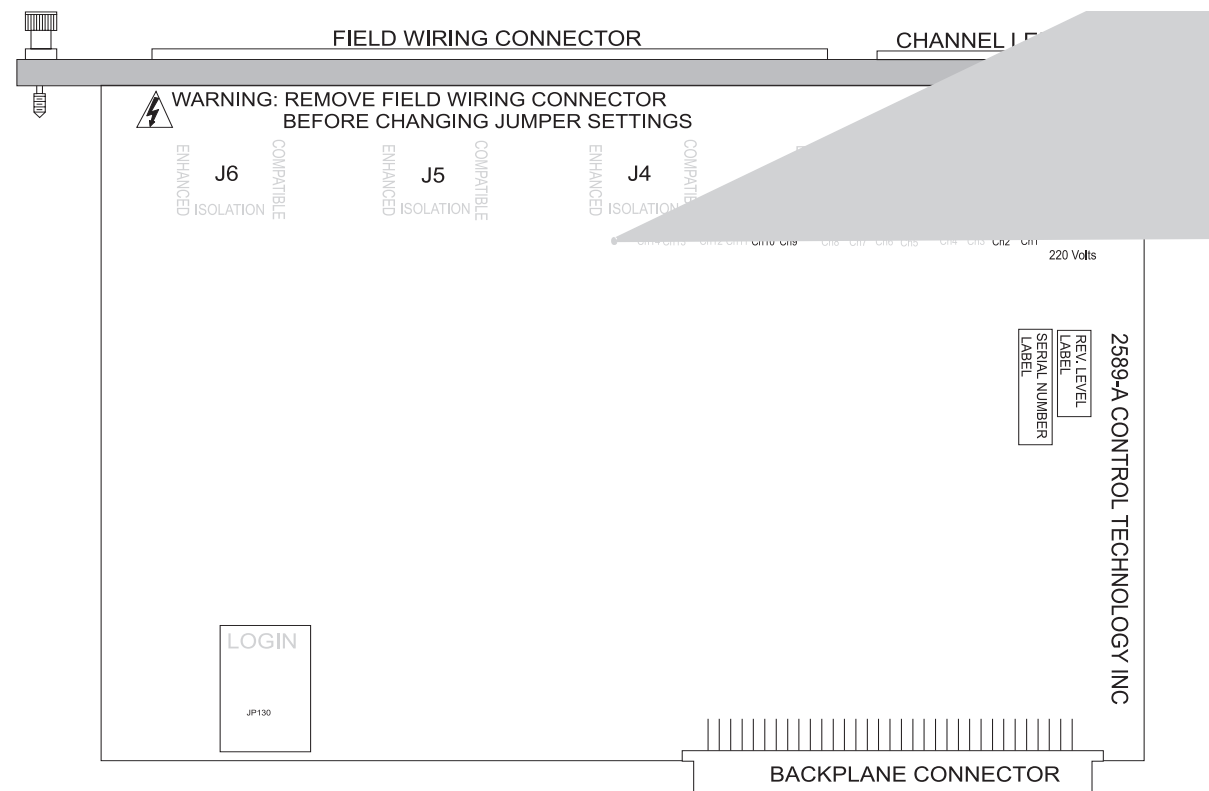


Figure 1. PCB Jumper Configuration Location