



# *Installation Instructions*

## **DC (5-30V) Selectable Input Module Cat. No. 1771-IQ**

### **To The Installer**

This document provides information on:

- important pre-installation considerations
- power supply requirements
- initial handling procedures
- installing the module
- using the indicators for troubleshooting
- module specifications

### **Pre-installation Considerations**

Each of the eight inputs to this module are switch selectable for current sourcing or current sinking of your device. The module can be set for either high true or low true logic. In addition, the module has selectable delay times of 12ms nominal (5ms minimum; 26ms maximum) in normal or 1ms (maximum) in fast position. Set these switches before you install your module.

The dc selectable input module can be installed in either a Series A or B 1771 I/O chassis.

### **European Union Directive Compliance**

If this product has the CE mark it is approved for installation within the European Union and EEA regions. It has been designed and tested to meet the following directives.

#### **EMC Directive**

This product is tested to meet Council Directive 89/336/EEC Electromagnetic Compatibility (EMC) and the following standards, in whole or in part, documented in a technical construction file:

- EN 50081-2EMC – Generic Emission Standard, Part 2 – Industrial Environment
- EN 50082-2EMC – Generic Immunity Standard, Part 2 – Industrial Environment

This product is intended for use in an industrial environment.



**ATTENTION:** Do not force the module into the backplane connector. If you cannot seat the module with firm pressure, check the alignment and keying. Forcing the module can damage the backplane connector or the module.

6. Snap the chassis locking bar (or locking latch on earlier chassis) over the top of the module to secure it. Make sure the locking pins on the locking bar are fully engaged.

**Note:** The chassis locking bar will not close if all modules are not properly seated.

7. Connect the field wiring arm to the module.
8. Make wiring connections to the field wiring arm as indicated below.

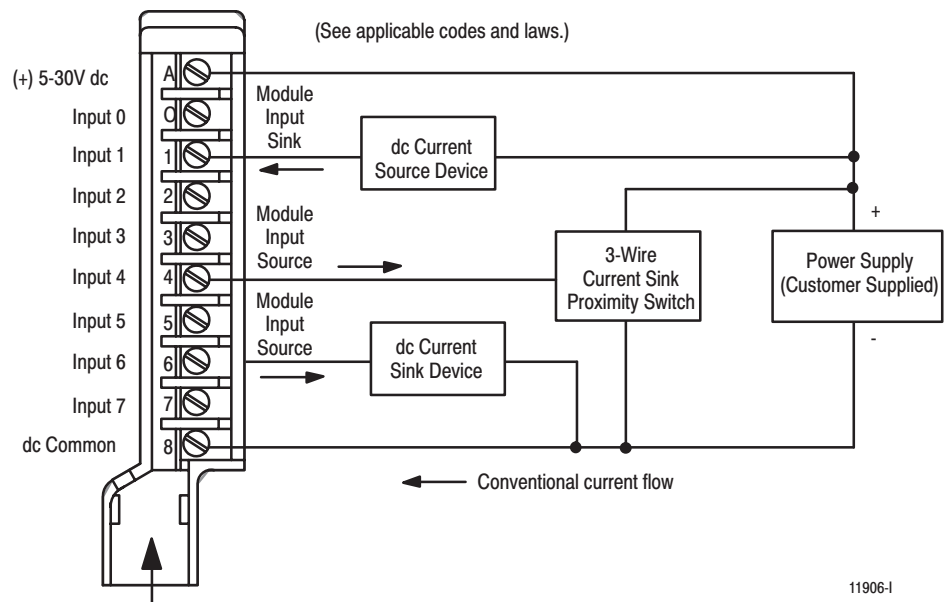
### Connecting Wiring to the Input Module

Connections to the input module are made to the field wiring arm (cat. no. 1771-WC) shipped with the module. Attach the wiring arm to the pivot bar on the bottom of the I/O chassis. The wiring arm pivots upward and connects with the module so you can install or remove the module without disconnecting the wires.



**ATTENTION:** Do not apply ac or reverse dc voltage to module terminals. Circuitry at the input of module may be damaged.

### Connection Diagram



11906-I

## Specifications

Inputs per Module	8
Module Location	1771 I/O chassis
Nominal Input Current	5mA @ 5V dc; 25mA @ 30V dc
Input Voltage Range HIGH = TRUE  LOW = TRUE	ON: > 40% of customer supply voltage OFF: < 20% of customer supply voltage ON: < 20% of customer supply voltage OFF: > 40% of customer supply voltage
Customer Supply Voltage	5V dc to 30Vdc
Customer Supply Current per Module	All inputs ON and connected for source capability: 100mA per module @ 5V dc 350mA per module @ 30V dc
Input Impedance	1.2K ohms nominal
Input Signal Delay	Fast: Less than 1ms Normal: 12ms typical (-7ms, +14ms)
Power Dissipation	6.8 Watts (max.), 0.8 Watts (min.)
Thermal Dissipation	23.2 BTU/hr (max.), 2.7 BTU/hr (min.)
Backplane Current	150mA max.
Isolation Voltage	1500V ac rms
Environmental Conditions Operational Temperature Storage Temperature Relative Humidity	0° to 60°C (32° to 140°F) -40° to 85°C (-40° to 185°F) 5 to 95% (without condensation)
Conductors      Wire Size  Category	14 gauge (2mm <sup>2</sup> ) stranded maximum 3/64 inch (1.2mm) insulation maximum 2 <sup>1</sup>
Keying	Between 6 and 8 Between 24 and 26
Wiring Arm	Catalog Number 1771-WC
Wiring Arm Screw Torque	7-9 inch-pounds
Agency Certification (when product or packaging is marked)	<ul style="list-style-type: none"> <li>• CSA certified</li> <li>• CSA Class I, Division 2, Groups A, B, C, D certified</li> <li>• UL listed</li> <li>• CE marked for all applicable directives</li> </ul>

<sup>1</sup> You use this conductor-category for planning conductor routing as described in the system-level installation manual.



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