

## Spare/Replacement Module Parts

- 1746-N3: Connector kit (1 connector, 40 terminals per kit)

## Specifications

### General Specifications

Specification	Value
Dimensions	118 mm (height) x 87 mm (depth) x 35mm (width) height including mounting tabs is 138 mm 4.65 in (height) x 3.43 in (depth) x 1.38 in (width) height including mounting tabs is 5.43 in
Approximate Shipping Weight (with carton)	230 g (0.51 lbs)
Storage Temperature	-40°C to +85°C (-40°F to +185°F)
Operating Temperature	0°C to +60°C (32°F to +140°F)
Operating Humidity	5% to 95% non-condensing
Operating Altitude	2000 meters (6561 feet)
Vibration	Operating: 10 to 500 Hz, 5G, 0.030 inches maximum peak-to-peak
Shock	Operating: 30G panel mounted (20G DIN rail mounted) Non-Operating: 40G panel mounted (30G DIN rail mounted)
Agency Certification	<ul style="list-style-type: none"> <li>• C-UL certified (under CSA C22.2 No. 142)</li> <li>• UL 508 listed</li> <li>• CE compliant for all applicable directives</li> </ul>
Hazardous Environment Class	Class I, Division 2, Hazardous Location, Groups A, B, C, D (UL 1604, C-UL under CSA C22.2 No. 213)
Radiated and Conducted Emissions	EN50081-2 Class A
<i>Electrical /EMC:</i>	<i>The module has passed testing at the following levels:</i>
ESD Immunity (IEC1000-4-2)	4kV contact, 8 kV air, 4 kV indirect
Radiated Immunity (IEC1000-4-3)	10 V/m, 80 to 1000 MHz, 80% amplitude
Fast Transient Burst (IEC1000-4-4)	2 kV, 5 kHz
Surge Immunity (IEC1000-4-5)	2 kV common mode, 1 kV differential mode
Conducted Immunity (IEC1000-4-6)	10V, 0.15 to 80 MHz <sup>(1)</sup>

<sup>(1)</sup> Conducted Immunity frequency range may be 150 kHz to 30 MHz if the Radiated Immunity frequency range is 30 MHz to 1000 MHz.

## Input Specifications

Specification	1769-IQ32T
Voltage Category	24V dc (sink/source <sup>(1)</sup> )
Operating Voltage Range	20.4 to 26.4V dc at 60°C (140°F)
Number of Inputs	32
Bus Current Draw (max.)	170 mA at 5V dc (0.85 W)
Heat Dissipation	4.77 Total Watts (The Watts per point, plus the minimum Watts, with all points energized.)
Digital Filter	OFF to ON: 0 s, 100 µs, 500 µs, 1 ms, 2 ms, 4 ms, 8 ms ON to OFF: 0 s, 100 µs, 500 µs, 1 ms, 2 ms, 4 ms, 8 ms
Hardware Delay	On Delay: 0.1 ms (typical), 0.42 ms (max) Off Delay: 0.25 ms (typical), 1.0 ms (max)
Off-State Voltage (max.)	11V dc
Off-State Current (max.)	1.7 mA
On-State Voltage (min.)	19V dc
On-State Current (min.)	3.0 mA
Inrush Current (max.)	5 mA
Nominal Impedance	5.6 kohm
Power Supply Distance Rating	8 (The module may not be more than 8 modules away from the power supply or controller.)
Input Point to Bus (Compact Bus) Isolation	Verified by one of the following dielectric tests: 1200V ac for 1 sec. or 1697V dc for 1 sec. 75V dc working voltage (IEC Class 2 reinforced insulation)
Isolated Groups	Group 1: inputs 0 to 7 Group 2: inputs 8 to 15 Group 3: inputs 16 to 23 Group 4: inputs 24 to 31 Isolated groups operate in either sink or source configurations.
Input Group to Input Group Isolation	Verified by one of the following dielectric tests: 1200V ac for 1 sec. or 1697V dc for 1 sec. 75V dc working voltage (IEC Class 2 reinforced insulation)
Vendor I.D. Code	1
Product Type Code	7
Product Code	76

<sup>(1)</sup> **Sinking/Sourcing Inputs** - Sourcing/sinking describes the current flow between the I/O module and the field device. Sourcing I/O circuits supply (source) current to sinking field devices. Sinking I/O circuits are driven by a current sourcing field device. Field devices connected to the negative side (DC Common) of the field power supply are sinking field devices. Field devices connected to the positive side (+V) of the field supply are sourcing field devices. *Europe*: DC sinking input and sourcing output module circuits are the commonly used options.