

## Specifications

### General

Attribute	Value
Dimensions HxWxD	90 x 40.4 x 87 mm (3.54 x 1.59 x 3.43 in.)
Shipping weight, approx.	230g (8.11oz)
Wire size	See Wire Size and Terminal Screw Torque on page 16
Wiring category <sup>(1)</sup>	2 - on signal ports
Pilot duty rating	Not rated
Enclosure type rating	IP20
North American temp code	T3C

<sup>(1)</sup> Use this Conductor Category information for planning conductor routing. Refer to Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).

### Input

Attribute	Value
Voltage category	24V DC (sink/source) <sup>(1)</sup>
Operating voltage range	10...30V DC 10...26.4V DC. <a href="#">See Derating Charts on page 21</a>
Number of inputs	16
Bus current draw, max	70 mA at 5V DC (0.35 W)
Heat dissipation, max.	5.4 Total Watts at 30V DC 4.3 Total Watts at 26.4V DC
Signal delay, max	On Delay: 8.0 ms Off Delay: 8.0 ms
Off-State voltage, max	5V DC
Off-State current, max	1.5 mA
On-State voltage, min	10V DC
On-State current	2.0 mA min at 10V DC 8.0 mA nom at 24V DC 12.0 mA max at 30V DC
Nominal impedance	3K ohm
IEC input compatibility	Type 1
Isolated groups	Group 1: inputs 0...7; Group 2: inputs 8...15

## Input

Attribute	Value
Input group to backplane Isolation	Verified by one of the following dielectric tests: 1200V AC for 1s or 1697V DC for 1s 75V DC working voltage (IEC Class 2 reinforced insulation)
Vendor I.D. Code	1
Product type code	7
Product code	97

- <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.

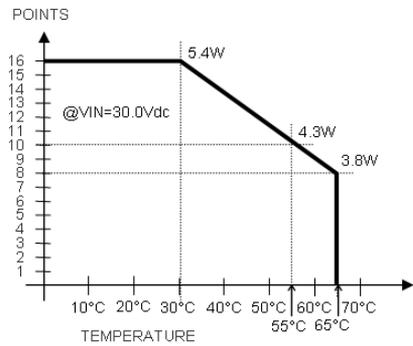
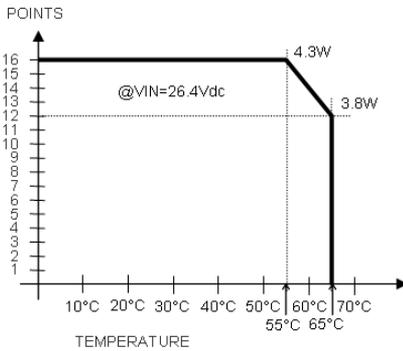
## Environmental

Attribute	Value
Temperature, operating	IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): -20... 65 °C (-4...149 °F) <a href="#">See Derating Charts on page 21</a>
Temperature, storage	IEC 60068-2-1 (Test Ab, Unpackaged Non-operating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Non-operating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Non-operating Thermal Shock): -40... 85 °C (-40... 185 °F)
Relative humidity	IEC 60068-2-30 (Test Db, Unpackaged Damp Heat): 5...95% non-condensing
Vibration	IEC 60068-2-6 (Test Fc, Operating): 5 g @ 10... 500 Hz
Altitude, operating max	2000 m (6562 ft)
Shock, operating	IEC 60068-2-27 (Test Ea, Unpackaged Shock): 30 g
Shock, nonoperating	IEC 60068-2-27 (Test Ea, Unpackaged Shock): Panel mount - 50 g DIN mount - 40 g
Emissions	CISPR 11 Group 1, Class A

**Environmental**

Attribute	Value
ESD immunity	IEC 61000-4-2: 4 kV contact discharges 8 kV air discharges 4 kV indirect
Radiated RF immunity	IEC 61000-4-3: 10V/m with 1 kHz sine-wave 80% AM from 80...2700 MHz
EFT/B immunity	IEC 61000-4-4: ±2 kV at 5 kHz on signal ports
Surge transient immunity	IEC 61000-4-5: ±1 kV line-line(DM) and ±2 kV line-earth(CM) on signal ports
Conducted RF immunity	IEC 61000-4-6: 10V rms with 1 kHz sine-wave 80% AM from 150 kHz...80 MHz

## Derating Charts for each input for 1762-IQ16 Input Module



## Certifications

Certification (when product is marked) <sup>(1)</sup>	Value
c-UL-us	UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E322657.  UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E334470.
CE	European Union 2004/108/EC EMC Directive, compliant with: EN 61326-1; Meas./Control/Lab., Industrial Requirements EN 61000-6-2; Industrial Immunity EN 61000-6-4; Industrial Emissions EN 61131-2; Programmable Controllers (Clause 8, Zone A & B)
C-Tick	Australian Radiocommunications Act, compliant with: AS/NZS CISPR 11; Industrial Emissions

<sup>(1)</sup> See the Product Certification link at <http://www.ab.com> for Declaration of Conformity, Certificates, and other certification details.