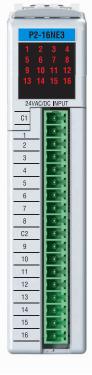
Input Specifications Inputs per Module 16 (Sink/Source) Operating Voltage Range 24 VAC/VDC Input Voltage Range 20.4-27.6 VAC/VDC Peak Voltage Range 27.6 VAC/ 30VDC AC Frequency 47-63 Hz Input Current (typical) 3.4 mA @ 24 VAC/VDC Maximum Input Current 5.0 mA @ 27.6 VAC/VDC ON Voltage Level > 12VDC. > 9VAC OFF Voltage Level < 10.5VDC. < 9VAC Minimum ON Current 2.5 mA Maximum OFF Current 0.5 mA DC: 6ms > max OFF to ON Response AC: 10ms DC: 10ms > maxON to OFF Response AC: 20ms Logic Side (16 Points) Status Indicators Commons per Module 2 (8 points/common) Isolated

Document Name	Editio	n/Revision	Date
P2-16NE3-DS	2nd E	Ed.	9/10/2019

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VAUTOMATIONDIRECTS Productivity20002



P2-16NE3 AC/DC Input

The P2-16NE3 AC/DC Input Module provides sixteen 24VAC or VDC sink/source inputs for use with the Productivity2000 system.

Input Specifications Module Installation Wiring Options Wiring Diagram and Schematic. QR Code Hot Swap Information Warning Pageographic Terminal Block Specifications	2 3 3 3
Removable Terminal Block Specifications	4
General Specifications	4

Terminal Block sold separately, (see wiring options on page 2).

Warranty: Thirty-day money-back guarantee. Two-year limited replacement. (See www.productivity2000.com for details).

Module Installation

WARNING: Do not apply field power until the following steps are completed. See hot-swapping procedure for exceptions.

Step One: Align module catch with base slot and rotate module into connector.

Step Two: Pull top locking tab toward module face. Click indicates lock is



2 rotate

to seated

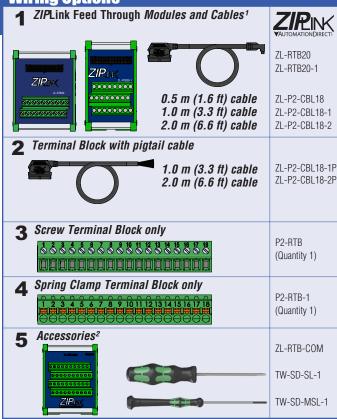
position

with slot

Step Three: Attach field wiring using the removable terminal block or ZIPLink wiring



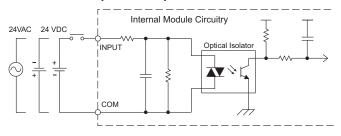
Wiring Options

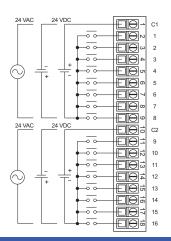


1.Cable + **ZIP**Link Module = Complete System

2. ZL-RTB-COM provides a common connection point for power or ground

Equivalent Input Circuit







Use any QR Code reader application to display the module's product insert.

Caution: If possible, remove field power prior to proceeding. If not, then EXTREME care MUST be taken to prevent damage to the module, or even personal injury due to a short circuit from the live terminal block.

Important Hot-Swap Information

The Productivity 2000 supports hot-swap! Individual modules can be taken offline, removed, and replaced while the rest of the system continues controlling your process. Before attempting to use the hot-swap feature, be sure to read the hot-swap topic in the programming software's help file or our online documentation at AutomationDirect.com for details on how to plan your installation for use of this powerful feature.

WARNING: To minimize the risk of potential safety problems, you should follow all applicable local and national codes that regulate the installation and operation of your equipment. These codes vary from area to area and it is your responsibility to determine which codes should be followed, and to verify that the equipment, installation, and operation are in compliance with the latest revision of these codes.

Equipment damage or serious injury to personnel can result from the failure to follow all applicable codes and standards. We do not guarantee the products described in this publication are suitable for your particular application, nor do we assume any responsibility for your product design, installation, or operation.

If you have any questions concerning the installation or operation of this equipment, or if you need additional information, please call Technical Support at 770-844-4200.

This publication is based on information that was available at the time it was printed. At AutomationDirect.com® we constantly strive to improve our products and services, so we reserve the right to make changes to the products and/or publications at any time without notice and without any obligation. This publication may also discuss features that may not be available in certain revisions of the product.

Removable Terminal Block Specifications

Part Number	P2-RTB	P2-RTB-1	
Number of Positions	18 Screw Terminals	18 Spring Clamp Terminals	
Wire Range	30–16 AWG (0.051–1.31 mm²) Solid / Stranded Conductor 3/64 in. (1.2 mm) Insulation Maximum 1/4 in. (6–7 mm) Strip Length	28–16 AWG (0.081–1.31 mm²) Solid / Stranded Conductor 3/64 in. (1.2 mm) Insulation Maximum 19/64 in. (7–8 mm) Strip Length	
Conductors	"USE COPPER CONDUCTORS, 75°C" or Equivalent.		
Screw Driver Width	0.1 inch (2.5 mm) Maximum*		
Screw Size	M2	N/A	
Screw Torque	2.5 lb·in (0.28 N·m)	N/A	

^{*}Recommended Screwdriver TW-SD-MSL-1

General Specifications		
Operating Temperature	0° to 60°C (32° to 140°F),	
Storage Temperature	-20° to 70°C (-4° to 158°F)	
Humidity	5 to 95% (non-condensing)	
Environmental Air	No corrosive gases permitted	
Vibration	IEC60068-2-6 (Test Fc)	
Shock	IEC60068-2-27 (Test Ea)	
Field to Logic Side Isolation	1800VAC applied for 1 second	
Insulation Resistance	>10MΩ @ 500VDC	
Heat Dissipation	400mW	
Enclosure Type	Open Equipment	
Module Keying to Backplane	Electronic	
Module Location	Any I/O slot in a Productivity2000 System.	
Field Wiring	Use <i>ZIP</i> Link Wiring System or removable terminal block (not included). See "Wiring Options" on page 2.	
EU Directive	See the "EU Directive" topic in the Productivity 2000 Help File. Information can also be obtained at: www.productivity2000.com	
Connector Type (not included)	18-position removable terminal block	
Weight	90g (3.2 oz)	
Agency Approvals	UL 61010-1 and UL 61010-2-201 File E139594, Canada and USA CE (EN 61131-2 EMC, EN 61010-1 and EN 61010- 2-201 Safety)*	

^{*}Meets EMC and Safety requirements. See the D.O.C. for details.