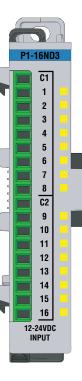
Input Specifications		
Inputs per Module	16 (sink/source)	
Rated Voltage	12-24 VDC	
Operating Voltage Range	10.2–26.4 VDC, Max 30VDC	
Input Current	3.5mA @ 12VDC 7.5 mA @ 24VDC	
Maximum Input Current	10mA @ 26.4 VDC	
Input Impedance	3kΩ	
Minimum ON Current	2mA	
Maximum OFF Current	1.6 mA	
ON Voltage Level	>9VDC	
OFF Voltage Level	<4.5 VDC	
OFF to ON, ON to OFF Response	2ms Maximum, 1ms Typical	
Status Indicators	Logic Side (16 points)	
Commons Per Module	2 (8 points/common) Isolated	

# VAUTOMATIONDIRECT Productivity<sup>1000</sup>



### P1-16ND3 Fast Response DC Input

The P1-16ND3 Fast Response Input Module provides sixteen 12–24 VDC sink/source inputs with two isolated commons for use with the Productivity1000 System.

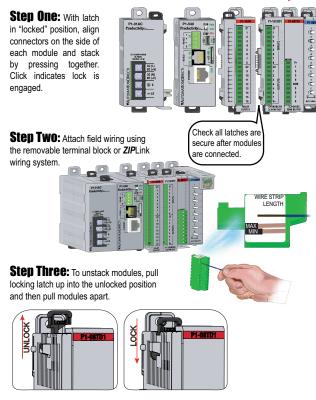
Input Specifications1
Module Installation
QR Code
Wiring Options
Schematic & Wiring Diagram
General Specifications4
Terminal Block Specifications4
Warning

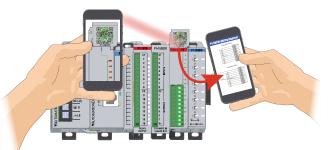
Terminal Block sold separately, (see wiring options on page 3). Warranty: Thirty-day money-back guarantee. Two-year limited replacement (See www.productivity1000.com for details).

#### **Module Installation**

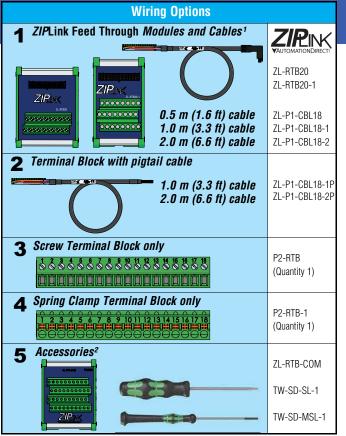
#### QR Code

WARNING: Do not add or remove modules with field power applied.





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

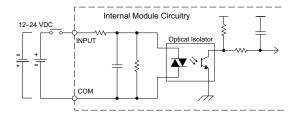


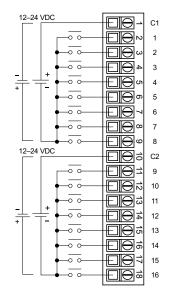
1.Cable + **ZIP**Link Module = Complete System

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

## P1-16ND3 Schematic and Wiring Diagram

**Equivalent Input Circuit** 





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 .

This publication is based on information that was available at the time it was printed. At AutomationDirect.com<sup>®</sup> 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.

Terminal Block Specifications				
Part Number	P2-RTB	P2-RTB-1		
Positions	18 Screw Terminals	18 Spring Clamp Terminals		
Wire Range	30–16 AWG (0.051–1.31 mm <sup>2</sup> ) Solid / Stranded Conductor 3/64 in (1.2 mm) Insulation Max. 1/4 in (6–7 mm) Strip Length	28–16 AWG (0.081–1.31 mm <sup>2</sup> ) Solid / Stranded Conductor 3/64 in (1.2 mm) Insulation Max. 19/64 in (7–8 mm) Strip Length		
Conductors	"USE COPPER CONDUCTORS, 75°C" or equivalent.			
Screw Driver	0.1 in (2.5 mm) Maximum*			
Screw Size	M2	N/A		
Screw Torque	2.5 lb·in (0.28 N·m)	N/A		

\*Recommended Screw Driver TW-SD-MSL-1

General Specifications		
Surrounding Air 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	3500mW	
Enclosure Type	Open Equipment	
Module Location	Any I/O position in a Productivity1000 System.	
Field Wiring	Use <b>ZIP</b> Link Wiring System or removable terminal block (Sold Separately). See "Wiring Options" on page 3.	
EU Directive	See the "EU Directive" topic in the Productivity Suite Help File. Information can also be obtained at: www.productivity1000.com	
Terminal Type (sold separately)	18-Position Removable Terminal Block	
Weight	71g (2.5oz)	
Agency Approvals	UL 61010-1 and UL 61010-2-201 File E139594, Canada & USA CE (EN 61131-2 EMC, EN 61010-1 and EN 61010-2-201 Safety)*	

\*See CE Declaration of Conformance for details.

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