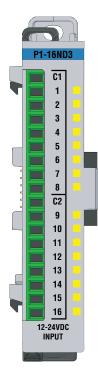
Input Specifications			
Inputs per Module	16 (sink/source)		
Rated Voltage	12-24 VDC		
Operating Voltage Range	10.2-26.4 VDC, Max 30VDC		
Input Current	3.5mA @ 12VDC 7.5 mA @ 24VDC		
Maximum Input Current	10mA @ 26.4 VDC		
Input Impedance	3kΩ		
Minimum ON Current	2mA		
Maximum OFF Current	1.6 mA		
ON 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		

Productivity 1000



P1-16ND3 Fast Response DC Input

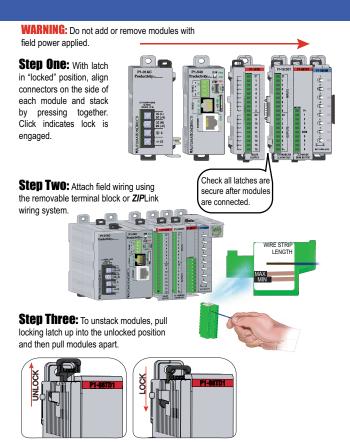
The P1-16ND3 Fast Response Input Module provides sixteen 12–24 VDC sink/source inputs with two isolated commons for use with the Productivity1000 System.

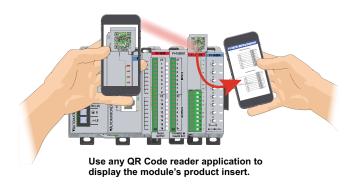
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Schematic & Wiring Diagram	. 3
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Terminal Block Specifications	. 4
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Terminal Block sold separately, (see wiring options on page 3). Warranty: Thirty-day money-back guarantee. Two-year limited replacement (See www.productivity1000.com for details).

Module Installation

QR Code





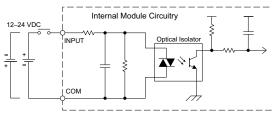
Wiring Options ZIPLink Feed Through Modules and Cables¹ 7I -RTB20 ZL-RTB20-1 ZIRINK 0.5 m (1.6 ft) cable ZL-P1-CBL18 1.0 m (3.3 ft) cable ZL-P1-CBL18-1 0000000 2.0 m (6.6 ft) cable ZL-P1-CBL18-2 Terminal Block with pigtail cable ZL-P1-CBL18-1P 1.0 m (3.3 ft) cable ZL-P1-CBL18-2P 2.0 m (6.6 ft) cable Screw Terminal Block only P2-RTB (Quantity 1) Spring Clamp Terminal Block only P2-RTB-1 (Quantity 1) Accessories² ZL-RTB-COM TW-SD-SL-1 TW-SD-MSL-1

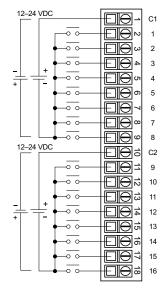
1.Cable + **ZIP**Link Module = Complete System

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 770-844-4200.

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Terminal Block Specifications					
Part Number	P2-RTB	P2-RTB-1			
Positions	18 Screw Terminals	v 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 Max. 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 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 ZIP 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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