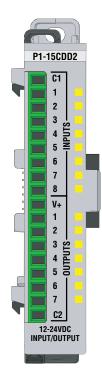
Input Specifications		
Inputs per Module	8 (sink/source)	
Rated Voltage	12-24 VDC	
Operating Voltage Range	10.2-26.4 VDC, Max 30VDC	
Input Current	8.4 mA @ 24VDC	
Maximum Input Current	10mA @ 26.4 VDC	
Input Impedance	3kΩ	
Minimum ON Current	1.4 mA	
Maximum OFF Current	1mA	
ON Voltage Level	> 9VDC	
OFF Voltage Level	< 4.5 VDC	
OFF to ON, ON to OFF Response	2ms Maximum, 1ms Typical	
Status Indicators	Logic Side (8 points)	
Commons	1 (8 points/common)	

Output Specifications			
Outputs per Module	7 (sourcing)		
Rated Voltage	12-24 VDC		
Operating Voltage Range	10.2–28.8 VDC		
Maximum Output Current	1A per point		
Minimum Load Current	1mA		
Maximum Leakage Current	0.3 mA @ 28.8 VDC		
On Voltage Drop	0.2 VDC @ 1A		
Maximum Inrush Current	4A for 50ms, 6A for 10ms		
OFF to ON, ON to OFF Response	0.5 ms		
Status Indicators	Logic Side (7 points)		
Commons	1 (7 points/common)		
Maximum Applicable Fuse	8A		
External Power Supply Required	12–24 VDC (-15% / +20%) @ 22mA		

# Productivity 1000



### P1-15CDD2 Input / Output

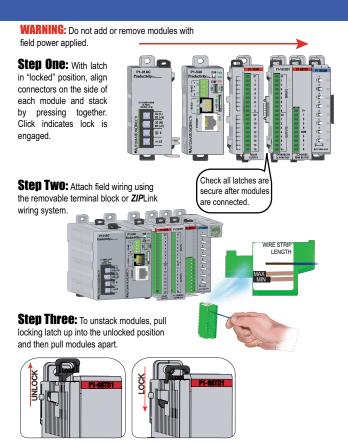
The P1-15CDD2 Input/Output Module provides eight 12-24 VDC inputs plus seven 12-24 VDC outputs that source up to 1A per output to loads connected to ground for use with the Productivity1000 system.

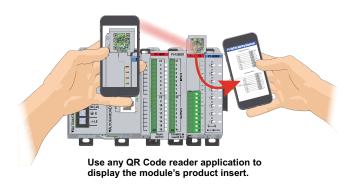
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Terminal Block Specifications
Warning4

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**



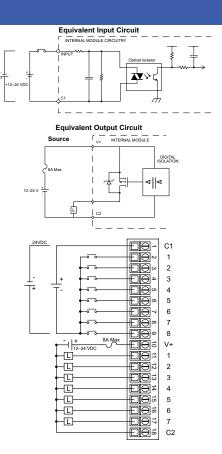


#### **Wiring Options** ZIPLink Feed Through Modules and Cables<sup>1</sup> ZL-RTB20 ZL-RTB20-1 ZIRINK 0.5 m (1.6 ft) cable ZL-P1-CBL18 1.0 m (3.3 ft) cable ZL-P1-CBL18-1 2.0 m (6.6 ft) cable ZL-P1-CBL18-2 Terminal Block with pigtail cable ZL-P1-CBL18-1P 1.0 m (3.3 ft) cable ZL-P1-CBL18-2P 2.0 m (6.6 ft) cable Screw Terminal Block only P2-RTB (Quantity 1) Spring Clamp Terminal Block only P2-RTB-1 (Quantity 1) Accessories<sup>2</sup> 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

## **P1-15CDD2 Schematic and Wiring Diagram**



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	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			

<sup>\*</sup>Recommended Screw Driver TW-SD-MSL-1

General Specifications			
<b>Operating Temperature</b> 0° to 60°C (32° to 140°F)			
Storage Temperature	-20° to 70°C (-4° to 158°F)		
Humidity	5 to 95% (non-condensing)		
Altitude	2,000 meters max		
Pollution Degree	2		
Environmental Air	No corrosive gases permitted		
Vibration	IEC60068-2-6 (Test Fc)		
Shock	IEC60068-2-27 (Test Ea)		
Overvoltage Category	II		
Field to Logic Side Isolation	1800VAC applied for 1 second		
Insulation Resistance	>10MΩ @ 500VDC		
Heat Dissipation	1800mW		
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		
Connector Type (sold separately)	18-Position Removable Terminal Block		
Weight	71g (2.5 oz)		
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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