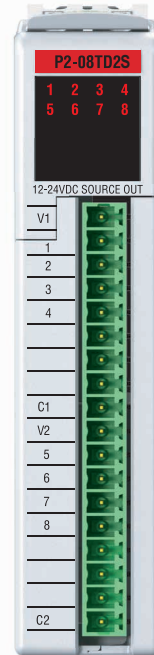


Output Specifications	
Outputs per Module	8 sourcing
Output Type	P-channel MOSFET, open source
Rated Voltage	12–24 VDC
Operating Voltage Range	10.2–30 VDC
Maximum Output Current	2A per point
Minimum Load Current	0.4 mA
Maximum Leakage Current	0.3 mA @ 30VDC
On Voltage Drop	0.2 VDC @ 2A
Maximum Inrush Current	4A for 40ms, 6A for 10ms
OFF to ON Response	≤0.5 ms
ON to OFF Response	≤0.5 ms
Status Indicators	Logic Side (8 points)
Commons	2 isolated (4 points / common)
Recommended External Fuse	None
External Power Supply Required	12–24 VDC (-15% / +20%) @ 12mA



## P2-08TD2S Sourcing DC Output

The P2-08TD2S DC Output Module provides eight outputs, isolated four per common, that source up to 2A per output from 12–24 VDC supplies for use with the Productivity2000 System.

Output Specifications .....	1
Application Notes .....	1
Module Installation .....	2
Wiring Options .....	2
Wiring Diagram and Schematic.....	3
QR Code .....	3
Hot Swap Information.....	3
Warning .....	4
Removable Terminal Block Specifications .....	4
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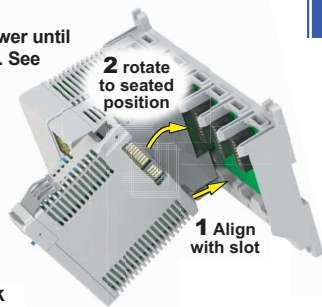
**Terminal Block sold separately, (see wiring options on page 2).**

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

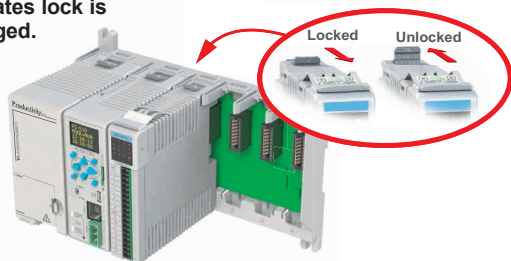
# Module Installation

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

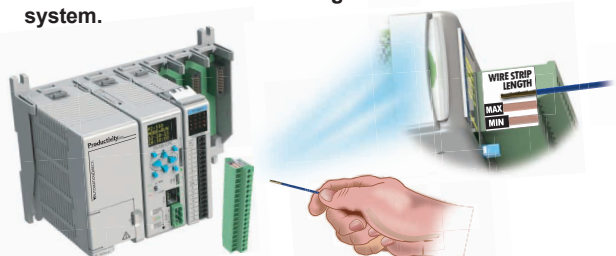
**Step One:** Align module catch with base slot and rotate module into connector.



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

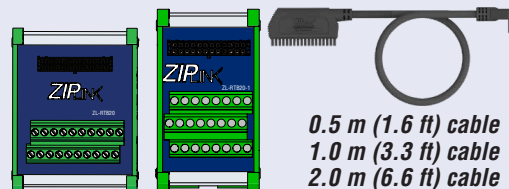


**Step Three:** Attach field wiring using the removable terminal block or ZIPLink wiring system.



## Wiring Options

### 1 ZIPLink Feed Through Modules and Cables<sup>1</sup>



**ZIPLINK**  
AUTOMATIONDIRECT™

ZL-RTB20  
ZL-RTB20-1

ZL-P2-CBL18  
ZL-P2-CBL18-1  
ZL-P2-CBL18-2

### 2 Terminal Block with pigtail cable



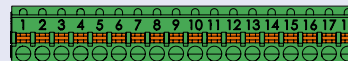
ZL-P2-CBL18-1P  
ZL-P2-CBL18-2P

### 3 Screw Terminal Block only



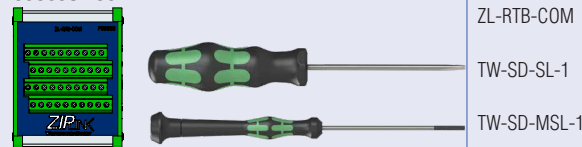
P2-RTB  
(Quantity 1)

### 4 Spring Clamp Terminal Block only



P2-RTB-1  
(Quantity 1)

### 5 Accessories<sup>2</sup>



ZL-RTB-COM

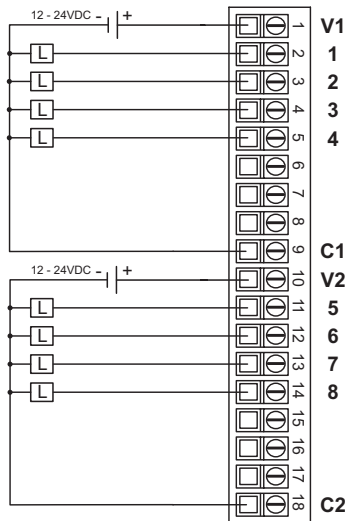
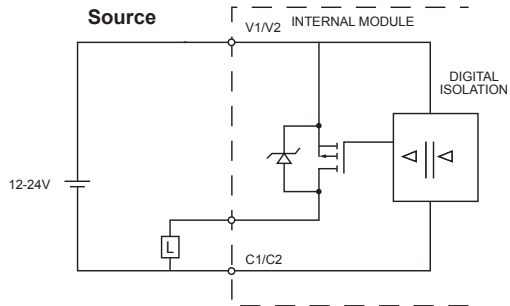
TW-SD-SL-1

TW-SD-MSL-1

1. Cable + ZIPLink Module = Complete System

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

# Wiring Diagram and Schematic



# QR Code



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 Productivity2000 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](http://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.

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## 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 mm <sup>2</sup> ) 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 mm <sup>2</sup> ) 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

\*Recommend Screw Driver 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	2600mW
Enclosure Type	Open Equipment
Module Keying to Backplane	Electronic
Module Location	Any I/O slot in a Productivity2000 System.
Field Wiring	Use <b>ZIPLink</b> Wiring System or removable terminal block (not included). See "Wiring Options" on page 2.
EU Directive	See the "EU Directive" topic in the Productivity Suite Help File. Information can also be obtained at: <a href="http://www.productivity2000.com">www.productivity2000.com</a>
Connector Type (sold separately)	18 Position Removable Terminal Block
Weight	98g (3.5 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.

Document Name	Edition/Revision	Date
P2-08TD2S-DS	2nd Ed.	9/5/2019

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