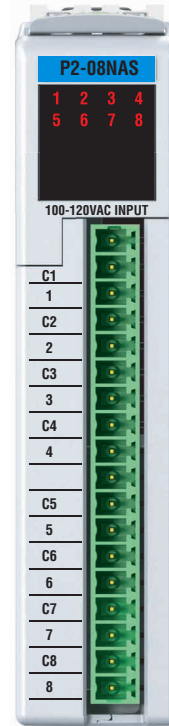


Input Specifications

| | |
|------------------------------|--|
| Inputs per Module | 8 |
| Rated Voltage | 100–120 VAC |
| Operating Voltage Range | 80–144 VAC |
| AC Frequency | 47–63 Hz |
| Input Current | 8.5 mA @ 100VAC (50Hz) 10mA @ 100VAC (60Hz) |
| Maximum Input Current @ Temp | 13mA @ 60°C (144VAC) |
| Input Impedance | 12kΩ (50Hz), 12kΩ (60Hz) |
| ON Voltage Level | > 70VAC |
| OFF Voltage Level | < 20VAC |
| Minimum ON Current | 5mA |
| Maximum OFF Current | 2mA |
| OFF to ON Response | < 10ms |
| ON to OFF Response | < 25ms |
| Status Indicators | Logic side (8 points) |
| Commons | 8 Isolated (1 point / common) |



P2-08NAS AC Isolated Input

The P2-08NAS AC Isolated Input Module provides eight 100–120 VAC isolated inputs for use with the Productivity2000 system.

- Input Specifications 1
- Module Installation Procedure. 2
- Terminal Block Removal 2
- Hot Swap Information 2
- Wiring Options. 3
- Schematic and Wiring Diagram. 3
- Warning. 4
- Removable Terminal Block Specifications 4
- General Specifications 4

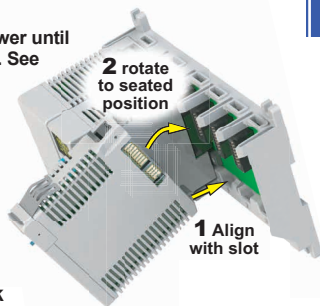
Terminal Block sold separately (see wiring options on page 3).

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

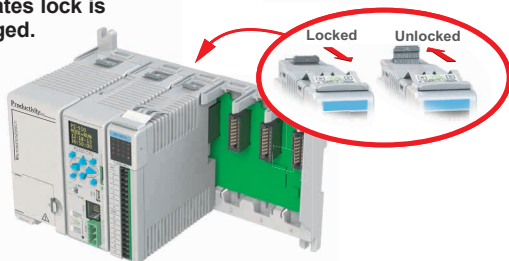
Module Installation

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

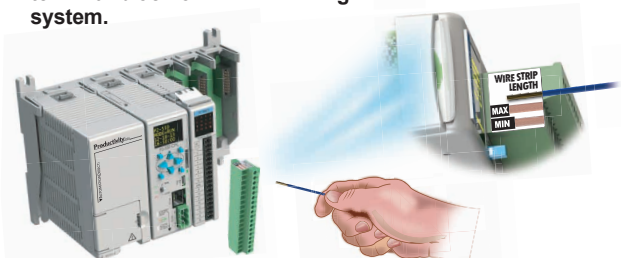
Step One: Align module catch with base slot and rotate module into connector.



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



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



QR Code



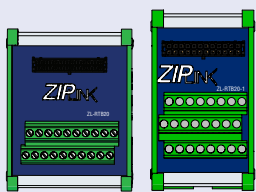
Caution: If possible, remove field power prior to proceeding. If not, then **EXTREME** care **MUST** be taken to prevent damage to the module, or even personal injury due to a short circuit from the live terminal block.

Important Hot-Swap Information

The Productivity2000 supports hot-swap! Individual modules and entire remote base groups 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.

Wiring Options

1 ZIPLink Feed Through Modules and Cables¹



0.5 m (1.6 ft) cable
1.0 m (3.3 ft) cable
2.0 m (6.6 ft) cable



ZL-RTB20
ZL-RTB20-1

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

2 Terminal Block with pigtail cable



1.0 m (3.3 ft) cable
2.0 m (6.6 ft) cable

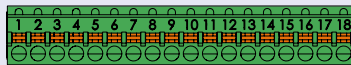
ZL-P2-CBL18-1P
ZL-P2-CBL18-2P

3 Screw Terminal Block only



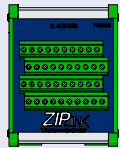
P2-RTB
(Quantity 1)

4 Spring Clamp Terminal Block only



P2-RTB-1
(Quantity 1)

5 Accessories²



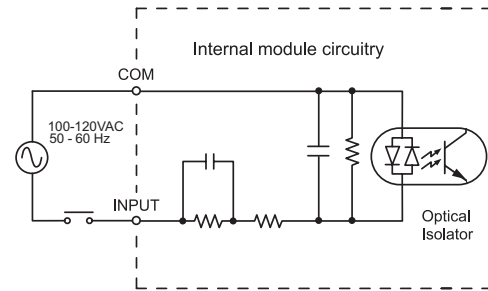
ZL-RTB-COM

TW-SD-SL-1

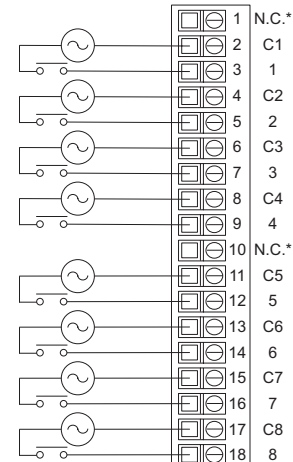
TW-SD-MSL-1

1. Cable + ZIPLink Module = Complete System
2. ZL-RTB-COM provides a common connection point for power or ground

Schematic and Wiring Diagrams



100 - 120 VAC
50 - 60 Hz



*N.C. = No Connection

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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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 | 600mW |
| Enclosure Type | Open Equipment |
| Module Keying to Backplane | Electronic |
| Module Location | Any I/O slot in Productivity2000 System. |
| Field Wiring | Use ZIPLink Wiring System or removable terminal block (not included). 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.productivity2000.com |
| Connector Type (sold separately) | 18 position terminal block |
| Weight | 85g (2.9 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.

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 sq. mm) 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 ²) 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 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

| Document Name | Edition/Revision | Date |
|---------------|------------------|----------|
| P2-08NAS-DS | 3rd Ed. | 9/4/2019 |

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