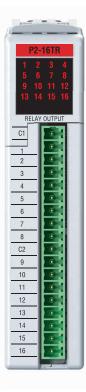
Output Specifications Output Channels 12-24 VDC Rated Voltage 7-240 VAC 6-27 VDC Operating Voltage Range 6-264 VAC Output Type Relay, form A (SPST) AC Frequency 47-63 Hz 1A / point, 8A / common @ 60°C Maximum Output Current for both AC and DC Minimum Load Current 5mA @ 5VDC Maximum Inrush Current 4A for 10ms m 10ms OFF to ON Response ON to OFF Response m 10ms Status Indicators Logic Side (16 points) Commons 2 Isolated (8 point / common) Recommended External Fuse 8A Max

	Document Name	Edition/Revision	Date
[P2-16TR-DS	2nd Ed.	9/6/2019

Copyright 2016, AutomationDirect.com Incorporated/All Rights Reserved Worldwide

VAUTOMATIONDIRECTS Productivity2000



P2-16TR Relay Output

The P2-16TR Relay Output Module provides sixteen 1A surge-protected outputs with two isolated commons for use with the Productivity2000 system.

Output Specifications	1
lodule Installation	2
R Code	2
lot Swap Information	2
Viring Options	3
Viring Diagram and Schematic	
Varning	4
ypical Relay Life	4
Removable Terminal Block Specifications	
Seneral Specifications	
•	

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.



2 rotate

to seated

position

with slot

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



QR Code

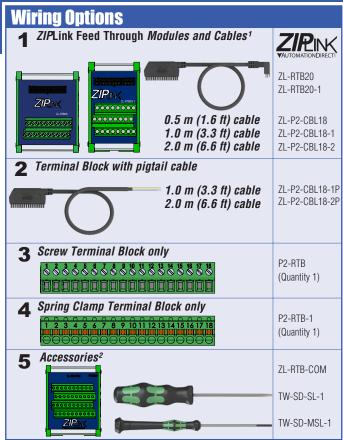


Use any QR Code reader application to display the module's product insert.

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

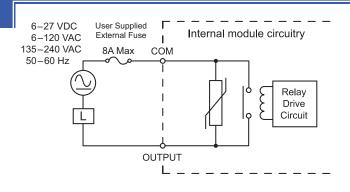
The Productivity2000 supports hot-swap! Individual modules can be taken offline, removed, and replaced while the rest of the system continues controlling your process. Before attempting to use the hot-swap feature, be sure to read the hot-swap topic in the programming software's help file or our online documentation at AutomationDirect.com for details on how to plan your installation for use of this powerful feature.

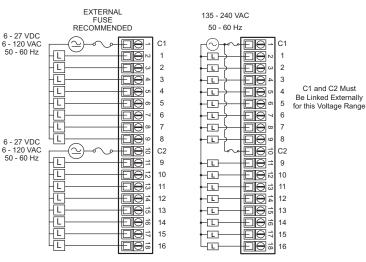


1.Cable + ZIPLink Module = Complete System

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

Wiring Diagram and Schematic





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.

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

Typical Relay Life Voltage & Type of Load Operations at 1A Load Current 30VDC Resistive 100,000 30VDC Solenoid 100,000 120VAC Resistive 100,000 120VAC Solenoid 100,000 240VAC Resistive 100,000 240VAC Solenoid 100,000 240VAC Solenoid 100,000

ntilluval	DIE LEMINIAI DIUCI	k 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 mm²) 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 mm²) 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 lh·in (0.28 N·m)	N/A	

Domoughla Tarminal Block Chapifications

Storage Temperature Humidity 5	0° to 60°C (32° to 140°F) -20° to 70°C (-4° to 158°F) 5 to 95% (non-condensing) No corrosive gases permitted
Humidity 5	5 to 95% (non-condensing)
•	•
Environmental Air	No corrosive gases permitted
Vibration	EC60068-2-6 (Test Fc)
Shock	EC60068-2-27 (Test Ea)
Field to Logic Side Isolation	1800VAC applied for 1 second
Insulation Resistance >	>10MΩ @ 500VDC
Heat Dissipation 2	2.73 W
Enclosure Type (Open Equipment
Module Keying to Backplane E	Electronic
Module Location A	Any I/O slot in a Productivity2000 System.
Field Wiring	Use ZIP Link 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 (not included)	18 position removable terminal block
Weight	188g (6.64 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.

*Recommended Screwdriver TW-SD-MSL-1