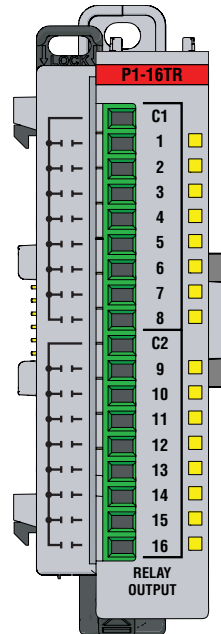


Output Specifications	
Output Channels	16
Rated Voltage	6.25–30 VDC, 6–120 VAC
Operating Voltage Range	5–30 VDC, 5–144 VAC
Output Type	Relay FORM A (SPST)
AC Frequency	47–63 Hz
Maximum Output Current	2A / point, 8A / common for both AC and DC 2A / point, 4A / common if used with ZIP Link Cable
Minimum Load Current	5mA @ 5VDC
Maximum Inrush Current	2400VA make, 240VA break @ 120 or 240VAC (Make current is 2 AC cycles)
OFF to ON Response	≤ 10 ms
ON to OFF Response	≤ 10ms
Status Indicators	Logic Side (16 points)
Commons	2 isolated (8 point / common)
Maximum Applicable Fuse	8A

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	



P1-16TR Relay Output

The P1-16TR Relay Output Module provides sixteen 2A outputs with two isolated commons for use with the Productivity1000 system.

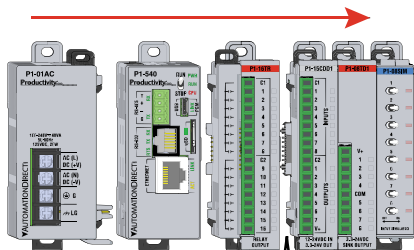
Output Specifications	1
Module Installation	2
QR Code	2
Wiring Options	3
Schematic & Wiring Diagram	3
General Specifications	4
Terminal Block Specifications	4
Warning	4

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

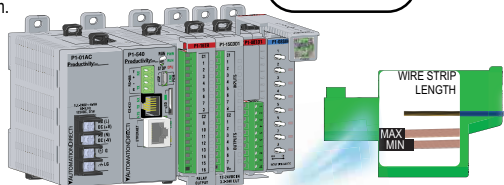
WARNING: Do not add or remove modules with field power applied.

Step One: With latch in "locked" position, align connectors on the side of each module and stack by pressing together. Click indicates lock is engaged.

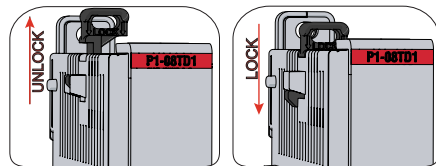


Step Two: Attach field wiring using the removable terminal block or ZIPLink wiring system.

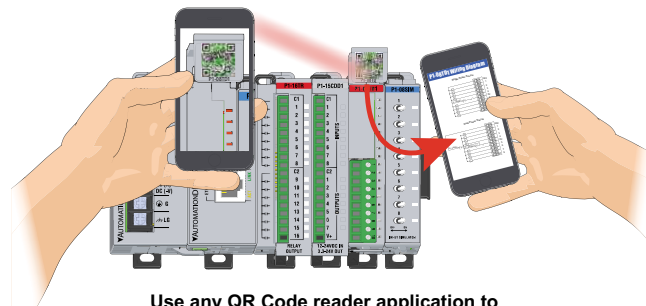
Check all latches are secure after modules are connected.



Step Three: To unstack modules, pull locking latch up into the unlocked position and then pull modules apart.



QR Code



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

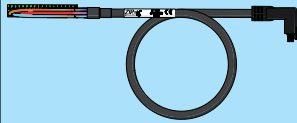
P1-16TR Schematic and Wiring Diagram

Wiring Options

1 ZIPLink Connection System Cable + ZIPLink Module = Complete System

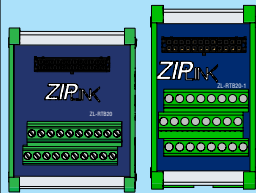
*ZIPLink pre-wired
terminal block
cables*

ZIP LINK
AUTOMATIONDIRECT



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

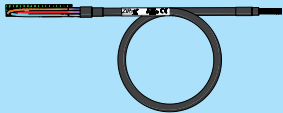
ZL-P1-CBL18-2

*ZIPLink Modules
Feed through*

ZL-RTB20

ZL-RTB20-1

2 Terminal Block with pigtail cable



1.0 m (3.3 ft)
cable

ZIP LINK
AUTOMATIONDIRECT

ZL-P1-CBL18-1P

2.0 m (6.6 ft)
cable

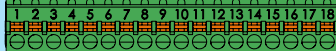
ZL-P1-CBL18-2P

3 Screw Terminal Block only

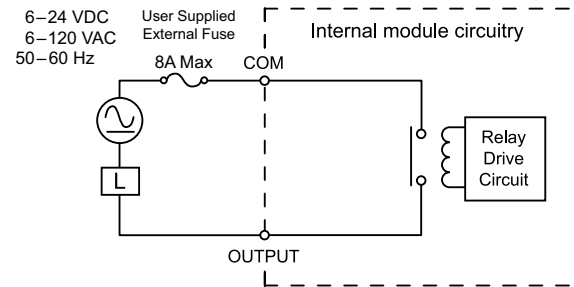


P2-RTB
(Quantity 1)

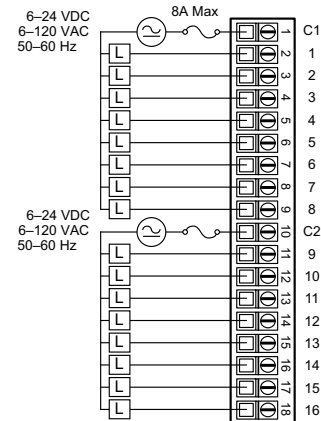
4 Spring Clamp Terminal Block only



P2-RTB-1
(Quantity 1)



EXTERNAL
FUSE
RECOMMENDED



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

*Recommended 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 Circuit Isolation	1800VAC applied for 1 second
Insulation Resistance	>10MΩ @ 500VDC
Heat Dissipation	3000mW
Enclosure Type	Open Equipment
Module Location	Any I/O position in a Productivity1000 System.
Field Wiring	Use ZIPLink 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	91g (3.2 oz)
Agency Approvals	UL 61010-2-201 file E139594, Canada & USA CE (EN61131-2 EMC and EN61010-2-201 Safety)*

*See CE Declaration of Conformance for details.

Document Name	Edition/Revision	Date
P1-16TR-DS	1st Edition, Revision A	9/21/2017

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