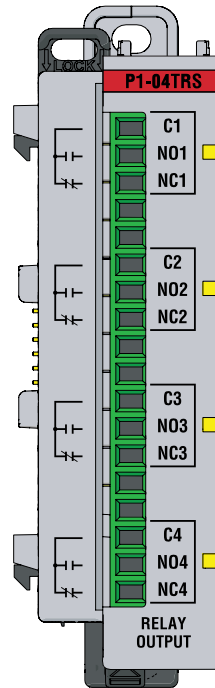


Output Specifications	
<b>Outputs per Module</b>	4
<b>Rated Voltage</b>	30VDC 100–240 VAC
<b>Operating Voltage Range</b>	5–30 VDC 5–264 VAC
<b>Output Type</b>	4 Relays, FORM C (SPDT)
<b>AC Frequency</b>	47–63 Hz
<b>Maximum Output Current</b>	7A @ 50°C 6A @ 60°C
<b>Minimum Load Current</b>	5mA @ 5VDC
<b>Maximum Inrush Current</b>	7A for 10ms
<b>OFF to ON Response</b>	< 10ms
<b>ON to OFF Response</b>	< 10ms
<b>Status Indicators</b>	Logic Side (4 points)
<b>Commons</b>	4 isolated (1 point / common)
<b>Protection Circuit</b>	Not built into module - Install protection elements such as an external fuse.

Typical Relay Life	
Voltage & Type of Load	Operations at 6A 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

## P1-04TRS Isolated Relay

The P1-04TRS high-current isolated relay output module provides four 7A surge-protected outputs. The P1-04TRS offers both normally open and normally closed relay contacts for use with the Productivity1000 System.



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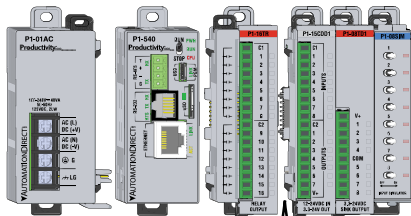
Terminal Block sold separately, (see wiring options on page 3).

# Module Installation

# QR Code

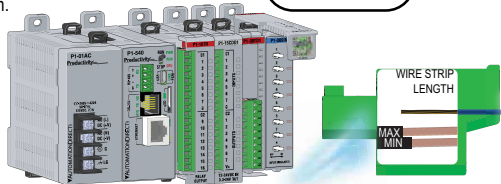
**WARNING:** Do not add or remove modules with field power applied.

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

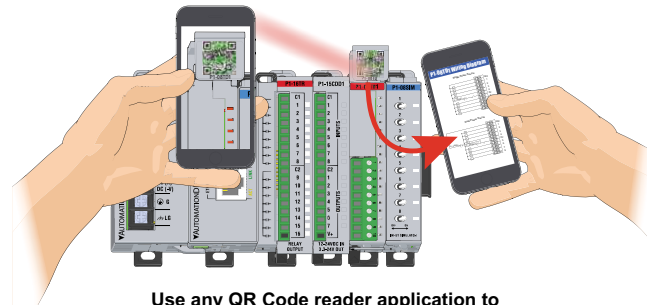
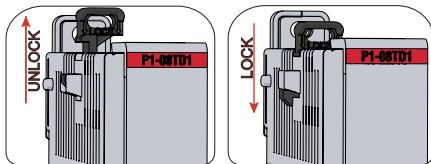


**Step Two:** Attach field wiring using the removable terminal block or ZIPLink wiring system.

Check all latches are secure after modules are connected.






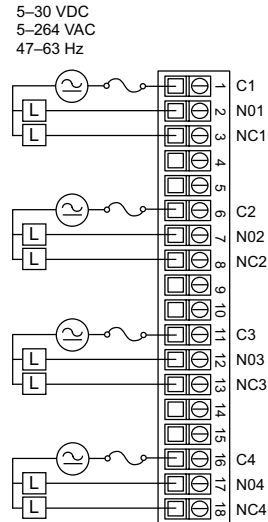
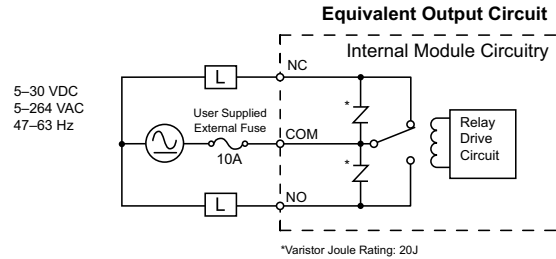
**Step Three:** To unstack modules, pull locking latch up into the unlocked position and then pull modules apart.



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

# P1-04TRS Schematic and Wiring Diagram

Wiring Options	
<b>1 Screw Terminal Block only</b> 	P2-RTB (Quantity 1)
<b>2 Spring Clamp Terminal Block only</b> 	P2-RTB-1 (Quantity 1)
<b>3 Accessories</b> 	TW-SD-SL-1  TW-SD-MSL-1



**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
<b>Positions</b>	18 Screw Terminals	18 Spring Clamp Terminals
<b>Wire Range</b>	30–16 AWG (0.051–1.31 mm <sup>2</sup> ) 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 <sup>2</sup> ) Solid / Stranded Conductor 3/64 in (1.2 mm) Insulation Max. 19/64 in (7–8 mm) Strip Length
<b>Conductors</b>	*USE COPPER CONDUCTORS, 75°C* or equivalent.	
<b>Screw Driver</b>	0.1 in (2.5 mm) Maximum*	
<b>Screw Size</b>	M2	N/A
<b>Screw Torque</b>	2.5 lb-in (0.28 N-m)	N/A

\*Recommended Screw Driver TW-SD-MSL-1

### General Specifications

<b>Operating Temperature</b>	0° to 60°C (32° to 140°F)
<b>Storage Temperature</b>	-20° to 70°C (-4° to 158°F)
<b>Humidity</b>	5 to 95% (non-condensing)
<b>Altitude</b>	2,000 meters max
<b>Pollution Degree</b>	2
<b>Environmental Air</b>	No corrosive gases permitted
<b>Vibration</b>	IEC60068-2-6 (Test Fc)
<b>Shock</b>	IEC60068-2-27 (Test Ea)
<b>Logic Isolation</b>	3000VAC applied for 5 seconds 1100VAC applied for 1 minute
<b>Insulation Resistance</b>	>10MΩ @ 500 VDC
<b>Heat Dissipation</b>	3800mW
<b>Overvoltage Category</b>	II
<b>Enclosure Type</b>	Open Equipment
<b>Module Location</b>	Any I/O position in a Productivity1000 System.
<b>Field Wiring</b>	Use a removable terminal block (sold separately). See "Wiring Options" on page 3.
<b>Connector (sold separately)</b>	18-Position Removable Terminal Block
<b>Weight</b>	120g (4.23 oz)
<b>Agency Approvals</b>	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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