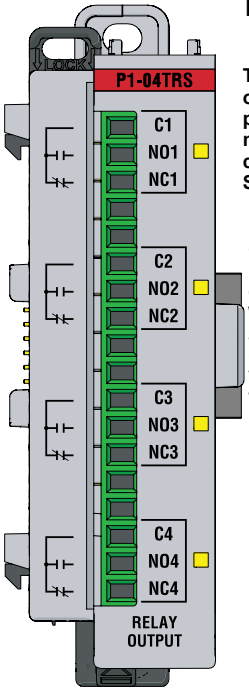
Output Specifications	
Outputs per Module	4
Rated Voltage	30VDC 100–240 VAC
Operating Voltage Range	5–30 VDC 5–264 VAC
Output Type	4 Relays, FORM C (SPDT)
AC Frequency	47–63 Hz
Maximum Output Current	7A @ 50°C 6A @ 60°C
Minimum Load Current	5mA @ 5VDC
Maximum Inrush Current	7A for 10ms
OFF to ON Response	< 10ms
ON to OFF Response	< 10ms
Status Indicators	Logic Side (4 points)
Commons	4 isolated (1 point / common)
Protection Circuit	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



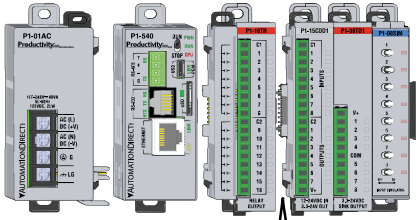
The P1-04TRS high-current isolated relay output module provides four 7A surge-protected outputs. The P1-04TRS offers both normally open and normally closed relay contacts for use with the Productivity1000 System.

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

Module Installation

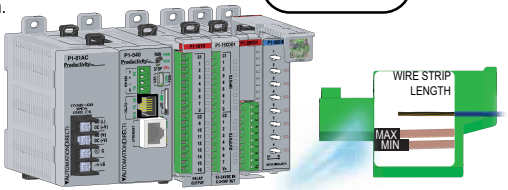
WARNING: Do not add or remove modules with field power applied.

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.

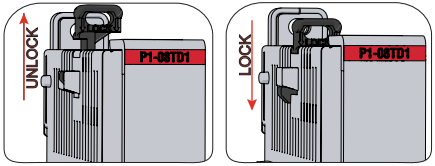


Check all latches are secure after modules are connected.

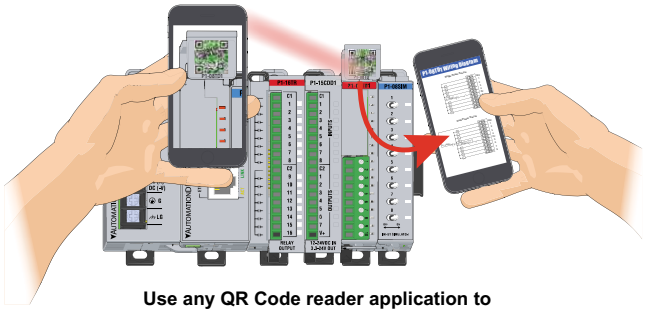
Step Two: Attach field wiring using the removable terminal block or ***ZIP***Link wiring system.



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

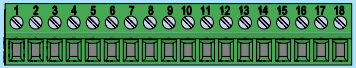
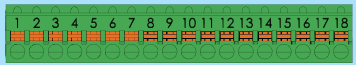


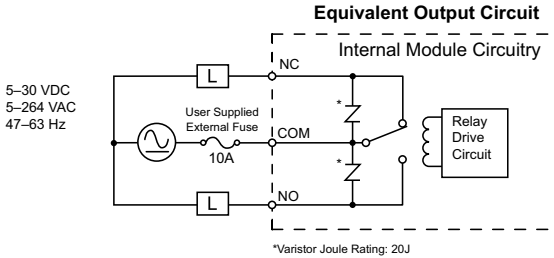
QR Code

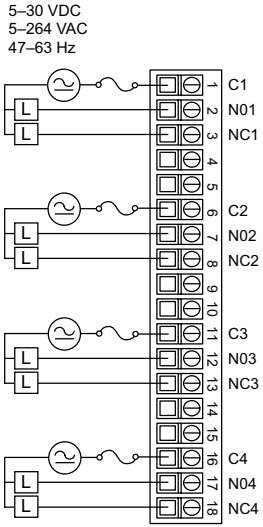


Use any QR Code reader application to display the module's product insert.

P1-04TRS Schematic and Wiring Diagram

Wiring Options	
1 ***Screw Terminal Block only*** 	P2-RTB (Quantity 1)
2 ***Spring Clamp Terminal Block only*** 	P2-RTB-1 (Quantity 1)
3 ***Accessories*** 	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***
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)
Altitude	2,000 meters max
Pollution Degree	2
Environmental Air	No corrosive gases permitted
Vibration	IEC60068-2-6 (Test Fc)
Shock	IEC60068-2-27 (Test Ea)
Logic Isolation	3000VAC applied for 5 seconds 1100VAC applied for 1 minute
Insulation Resistance	>10MΩ @ 500 VDC
Heat Dissipation	3800mW
Overvoltage Category	II
Enclosure Type	Open Equipment
Module Location	Any I/O position in a Productivity1000 System.
Field Wiring	Use a removable terminal block (sold separately). See "Wiring Options" on page 3.
Connector (sold separately)	18-Position Removable Terminal Block
Weight	120g (4.23 oz)
Agency Approvals	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.

Document Name	Edition/Revision	Date
P1-04TRS-DS	1st Edition, Rev A	3/5/2024