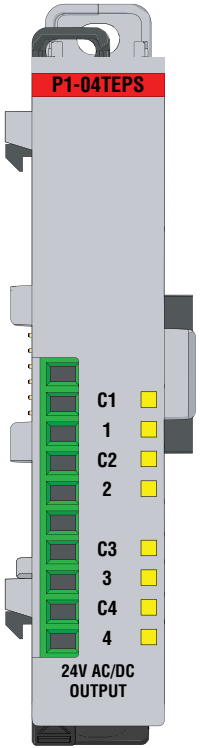
P1-04TEPS AC/DC Isolated Output



The P1-04TEPS AC/DC Output Module provides four 24VAC/VDC fault protected, isolated outputs for use with the Productivity1000 system.

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

Output Specifications	
Outputs per Module	4
Rated Voltage	24VAC / 24VDC
Operating Voltage Range	21.6–26.4 VAC/VDC
AC Frequency	47–63 Hz
Output Type	SSR
Maximum Output Current @ Temp	1A @ 50°C, 0.75 A @ 60°C
Minimum Load Current	10mA
Maximum Leakage Current	1µA
On Voltage Drop	0.35 V
Maximum Inrush Current	1.56 A
OFF to ON Response	2.5 ms
ON to OFF Response	0.5 ms
Status Indicators	Logic Side (4 points)
Commons per Module	4 isolated (1 point / common)
Protection Circuit	Not built into module – install external elements such as a fuse. (Max 1.6A)
Fault Protection	Current Limited > 1.56 A, Thermal Shutdown

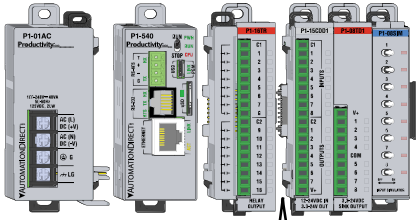
Channel Status		
Fault Condition	*Output Status*	*Operation to Reset Fault*
Overload Current or Over Temperature*	Output On, No Output	Remove Short Circuit, Reduce Load Current

* Output will auto recover once the fault condition is removed.

Module Installation

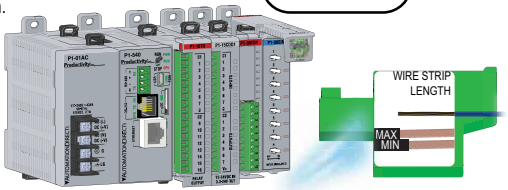
WARNING: Do not add or remove modules with field power applied.

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.

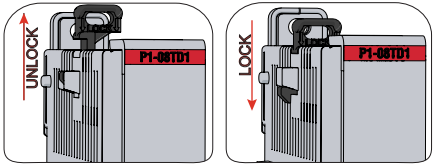


Check all latches are secure after modules are connected.

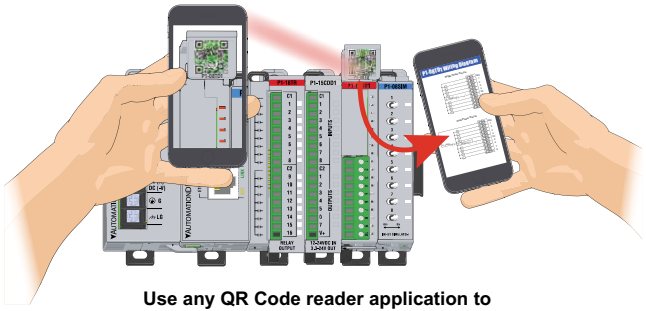
Step Two: Attach field wiring using the removable terminal block or ***ZIP***Link wiring system.



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



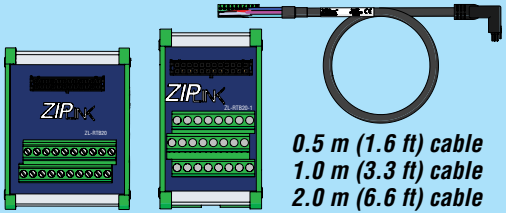
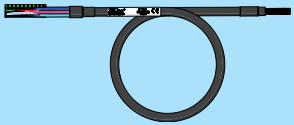
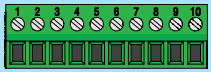
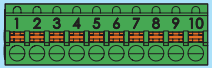
QR Code



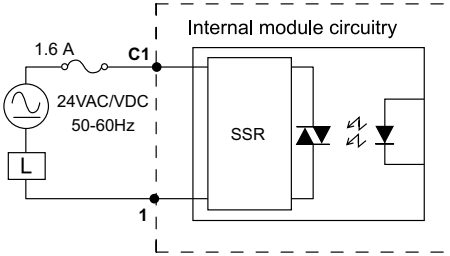
Use any QR Code reader application to display the module's product insert.

P1-04TEPS Schematic and Wiring

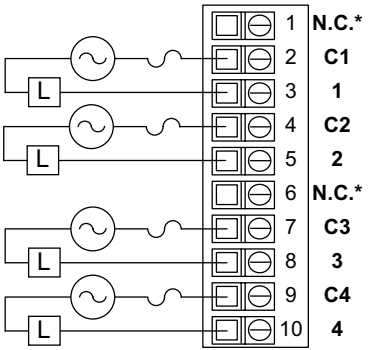
Wiring Options

1 ***ZIP*Link Feed Through *Modules and Cables*[1]**  ***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-P1-CBL10 ZL-P1-CBL10-1 ZL-P1-CBL10-2
2 ***Terminal Block with pigtail cable***  ***1.0 m (3.3 ft) cable*** ***2.0 m (6.6 ft) cable***	 ZL-P1-CBL10-1P ZL-P1-CBL10-2P
3 ***Screw Terminal Block only*** 	P1-10RTB (Quantity 1)
4 ***Spring Clamp Terminal Block only*** 	P1-10RTB-1 (Quantity 1)
5 ***Accessories*[2]** 	ZL-RTB-COM TW-SD-SL-1 TW-SD-MSL-1

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



24 VAC/VDC
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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Terminal Block Specifications		
Part Number	***P1-10RTB***	***P1-10RTB-1***
Positions	10 Screw Terminals	10 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)
Overvoltage Category	II
Field to Logic Side Isolation	1750VAC applied for 5 seconds, 420VDC applied for 1 minute
Insulation Resistance	> 10MΩ @ 500VDC
Heat Dissipation	1500mW
Enclosure Type	Open Equipment
Module Location	Any I/O position in a Productivity1000 System
Field Wiring	Removable terminal block (sold separately). Use ***ZIP***Link Wiring System optional See "Wiring Options" on page 5.
Terminal Type (sold separately)	10-position Removable Terminal Block
Weight	56g (1.98 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)*

*See CE Declaration of Conformity for details.

Document Name	Edition/Revision	Date
P1-04TEPS-DS	1st Edition	8/21/2025