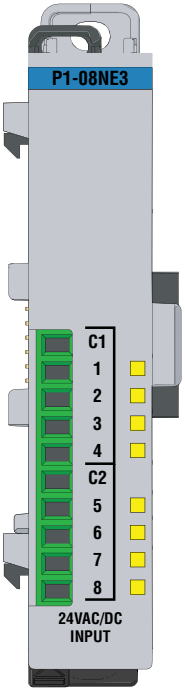
Input Specifications	
Inputs per Module	8 (sink/source)
Rated Voltage	24VAC/VDC
Operating Voltage Range	20.4–27.6 VAC/VDC, Max 27.6 VAC, 30VDC
AC Frequency	47–63 Hz
Input Current	8mA @ 24VAC/VDC
Maximum Input Current	10mA @ 27.6 VAC/VDC
ON Voltage Level	>9.5 VDC, >8VAC
OFF Voltage Level	<4.5VDC, <4VAC
Minimum ON Current	2.5 mA
Maximum OFF Current	0.5 mA
OFF to ON Response	AC: 10ms DC:6ms > max
ON to OFF Response	AC: 20ms DC: 10ms > max
Status Indicators	Logic Side (8 points)
Commons per module	2 (4 points/common) isolated



P1-08NE3 AC/DC Input

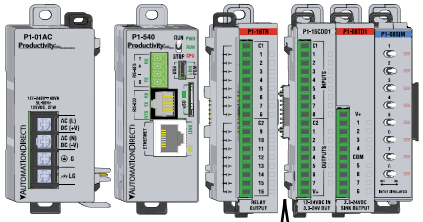
The P1-08NE3 AC/DC Input Module provides eight 24VAC or VDC sink/source inputs with two isolated commons for use with the Productivity1000 system.

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

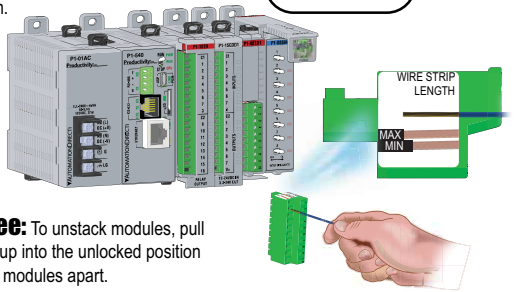
WARNING: Do not add or remove modules with field power applied.

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.

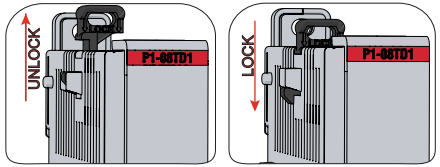


Check all latches are secure after modules are connected.

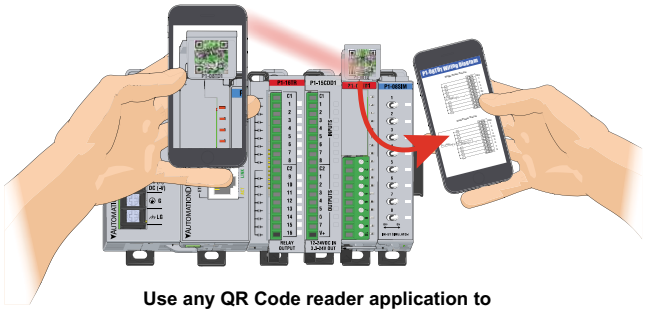
Step Two: Attach field wiring using the removable terminal block or ***ZIP***Link wiring system.



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



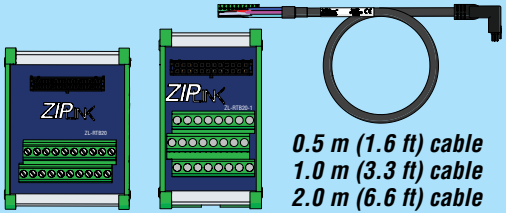
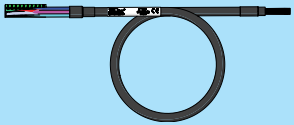
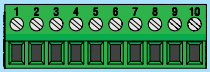
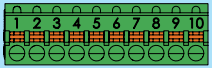
QR Code



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

P1-08NE3 Schematic and Wiring Diagram

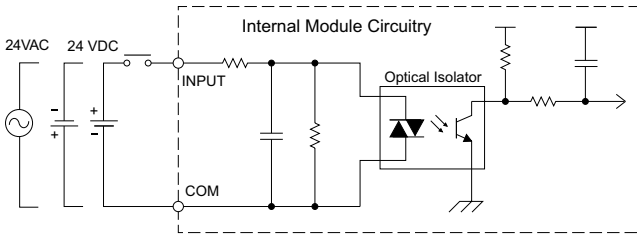
Wiring Options

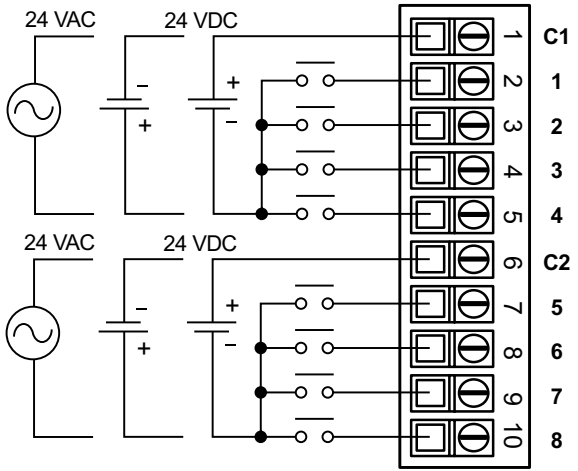
1 ***ZIP*Link Feed Through *Modules and Cables*[1]**  ***0.5 m (1.6 ft) cable*** ***1.0 m (3.3 ft) cable*** ***2.0 m (6.6 ft) cable***	ZL-RTB20 ZL-RTB20-1 ZL-P1-CBL10 ZL-P1-CBL10-1 ZL-P1-CBL10-2
2 ***Terminal Block with pigtail cable***  ***1.0 m (3.3 ft) cable*** ***2.0 m (6.6 ft) cable***	 ZL-P1-CBL10-1P 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

Equivalent Input Circuit





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 .

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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	
Surrounding Air 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 to Logic Side Isolation	1800VAC applied for 1 second
Insulation Resistance	>10MΩ @ 500VDC
Heat Dissipation	1800mW
Enclosure Type	Open Equipment
Module Location	Any I/O position in a Productivity1000 System.
Field Wiring	Use ***ZIP***Link 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)	10-position removable terminal block
Weight	70g (2.5 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
P1-08NE3-DS	2nd Edition	9/17/2019