Input Specifications	
Inputs per Module	8 (sink/source)
Rated Voltage	12–24 VDC
Operating Voltage Range	10.2–26.4 VDC
Input Current	3.5 mA @ 12VDC 8.4 mA @ 24VDC
Maximum Input Current	10mA @ 26.4 VDC
Input Impedance	3kΩ
Minimum ON Current	1.4mA
Maximum OFF Current	1mA
ON Voltage Level	>9.5 VDC
OFF Voltage Level	<4.5 VDC
OFF to ON, ON to OFF Response	2ms Maximum, 1ms Typical
Status Indicators	Logic Side (8 points)
Commons	2 (4 points/common)

AUTOMATIONDIRECT.com

Productivity®1000

P1-08ND3 Fast Response Input

The P1-08ND3 Fast Response Input Module provides eight inputs for switches and other devices connected to ground or supplies ranging from 12–24 VDC for use with the Productivity1000 system.

P1-08ND3

C1
1
2
3
4
C2
5
6
7
8

12-24VDC
INPUT

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.
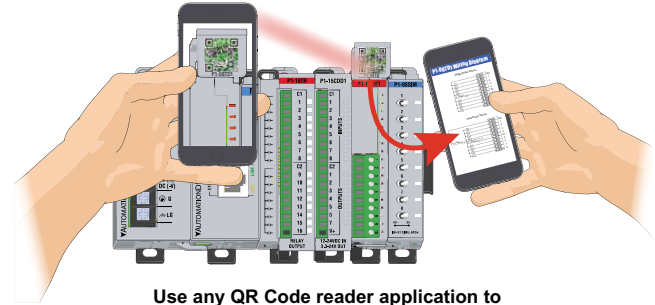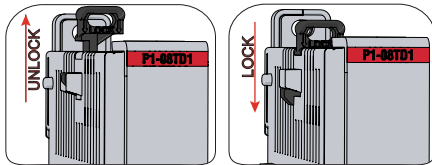

Check all latches are secure after modules are connected.
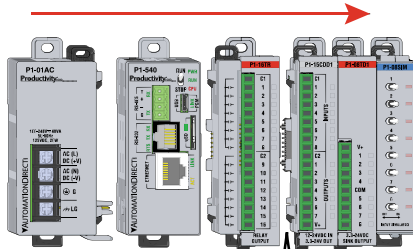
Step Two: Attach field wiring using the removable terminal block or *ZIP*Link wiring system.

WIRE STRIP LENGTH

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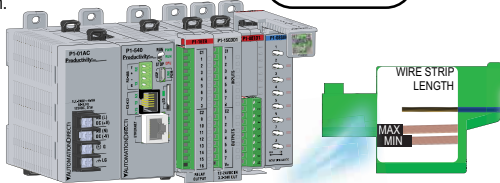
Step Three: To unstack modules, pull locking latch up into the unlocked position and then pull modules apart.

UNLOCK

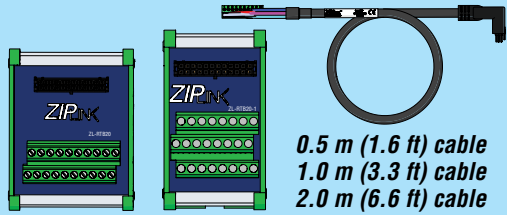P1-08TD1

LOCK

P1-08TD1

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

Wiring Options

1 ZIPLink Feed Through *Modules and Cables*[1]

ZIPLINK ▼AUTOMATIONDIRECT®

ZL-RTB20
ZL-RTB20-1

0.5 m (1.6 ft) cable
1.0 m (3.3 ft) cable
2.0 m (6.6 ft) cable

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
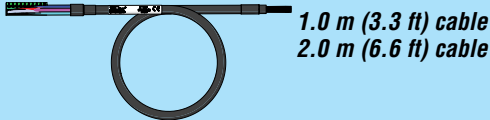
ZL-P1-CBL10-1P
ZL-P1-CBL10-2P

3 Screw Terminal Block only
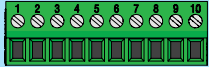
P1-10RTB
(Quantity 1)

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

Single Supply

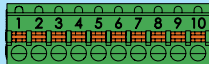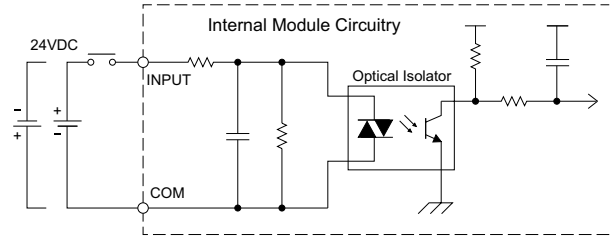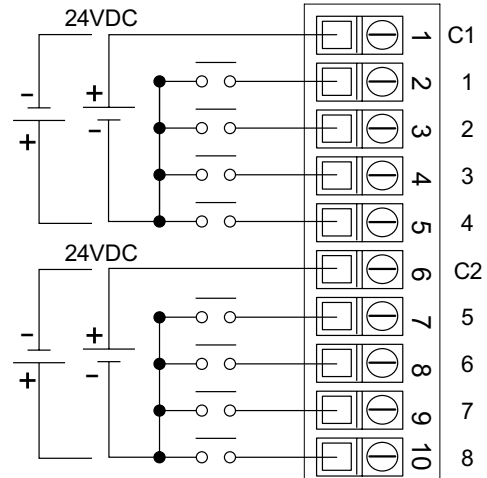**WARNING:** To minimize the risk of potential safety problems, you should follow all applicable local and national codes that regulate the installation and operation of your equipment. These codes vary from area to area and it is your responsibility to determine which codes should be followed, and to 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

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	2000mW
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	85g (3oz)
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
P1-08ND3-DS	3rd Edition	9/17/2019