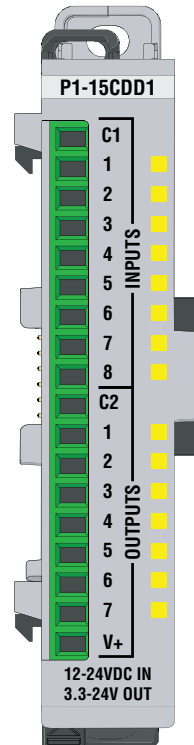


Input Specifications	
Inputs per Module	8 (sink/source)
Rated Voltage	12–24 VDC
Operating Voltage Range	10.2–26.4 VDC, Max 30VDC
Input Current	8.4 mA @ 24VDC
Maximum Input Current	10mA @ 26.4 VDC
Input Impedance	3kΩ
ON Voltage Level	> 9VDC
OFF Voltage Level	< 4.5 VDC
Minimum ON Current	1.4 mA
Maximum OFF Current	1mA
OFF to ON, ON to OFF Response	2ms Maximum, 1ms Typical
Status Indicators	Logic Side (8 points)
Commons	1 (8 points/common)

Output Specifications	
Outputs per Module	7 (sinking)
Rated Voltage	3.3–24 VDC
Operating Voltage Range	2.9–26.4 VDC
Maximum Output Current	1A per point
Minimum Load Current	1mA
Maximum Leakage Current	0.3 mA @ 26.4 VDC
On Voltage Drop	0.2 VDC @1A
Maximum Inrush Current	4A for 50ms, 6A for 10ms
OFF to ON, ON to OFF Response	≤0.5 ms
Status Indicators	Logic Side (7 points)
Commons	1 (7 points/common)
Maximum Applicable Fuse	8A
External Power Supply Required	12–24 VDC (–15% / +20%), 22mA

P1-15CDD1 Input / Output

The P1-15CDD1 Input/Output Module provides eight 12–24 VDC inputs plus seven outputs that sink up to 1A per output for loads connected to 3.3–24 V supplies for use with the Productivity1000 system.



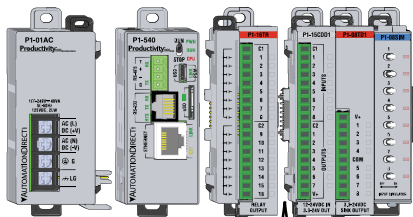
Input Specifications	1
Output Specifications	1
Module Installation	2
QR Code	2
Wiring Options	3
Schematic & Wiring Diagram	3
General Specifications	4
Terminal Block Specifications	4
Warning	4

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

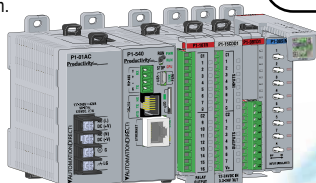
Module Installation

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 together. Click indicates lock is engaged.



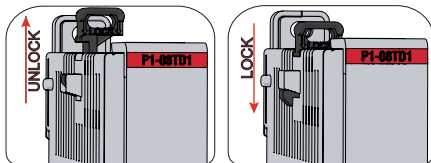
Step Two: Attach field wiring using the removable terminal block or ZIPLink wiring system.



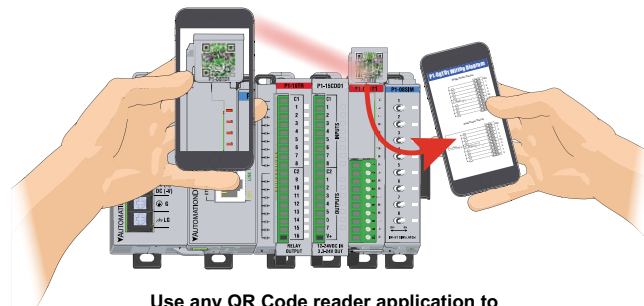
Check all latches are secure after modules are connected.



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



QR Code

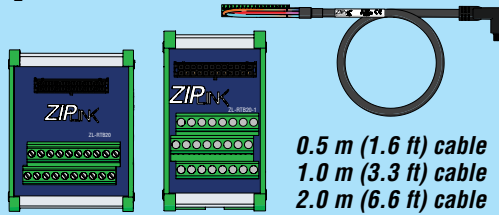


Use any QR Code reader application to display the module's product insert.

P1-15CDD1 Schematic and Wiring Diagram

Wiring Options

1 ZIPLink Feed Through Modules and Cables¹

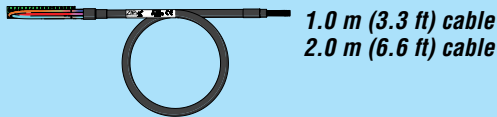


ZIPLINK
AUTOMATIONDIRECT

ZL-RTB20
ZL-RTB20-1

ZL-P1-CBL18
ZL-P1-CBL18-1
ZL-P1-CBL18-2

2 Terminal Block with pigtail cable



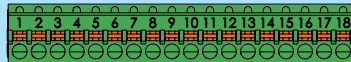
ZL-P1-CBL18-1P
ZL-P1-CBL18-2P

3 Screw Terminal Block only



P2-RTB
(Quantity 1)

4 Spring Clamp Terminal Block only



P2-RTB-1
(Quantity 1)

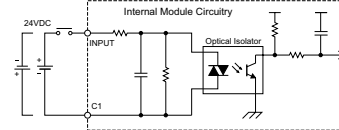
5 Accessories²



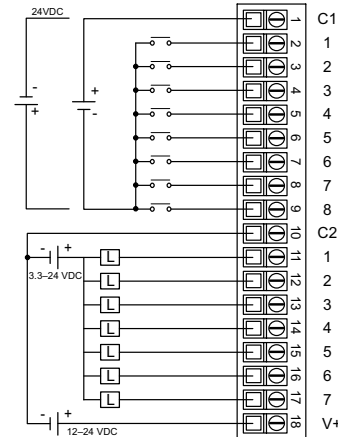
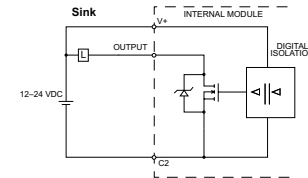
ZL-RTB-COM
TW-SD-SL-1
TW-SD-MSL-1

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

Typical Input Circuit



Typical Output 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 770-844-4200.

This publication is based on information that was available at the time it was printed. At AutomationDirect.com® we constantly strive to improve our products and services, so we reserve the right to make changes to the products and/or publications at any time without notice and without any obligation. This publication may also discuss features that may not be available in certain revisions of the product.

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)
Field to Logic Side Isolation	1800VAC applied for 1 second
Insulation Resistance	>10MΩ @ 500 VDC
Heat Dissipation	1800mW
Overvoltage Category	II
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.
Connector Type (sold separately)	18-Position Removable Terminal Block
Weight	71g (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
P1-15CDD1-DS	4th Edition, Rev A	2/29/2024

Copyright 2017, AutomationDirect.com Incorporated/All Rights Reserved Worldwide