Input Specifications

Input Specifications	
Inputs per Module	8 (sink/source)
Rated Voltage	12–24 VDC
Operating Voltage Range	10.4–28.8 VDC
Input Current	8.4 mA @ 24VDC
Maximum Input Current	11mA @ 28.8 VDC
Input Impedance	3kΩ
Maximum ON Current	2.5 mA
Maximum OFF Current	1.8 mA
ON Voltage Level	> 8VDC
OFF Voltage Level	< 6VDC
OFF to ON Response	2ms max
ON to OFF Response	
Status Indicators	Logic Side (8 points)
Commons	1

Output Specifications	
Outputs per Module	7 (sourcing)
Rated Voltage	12–24 VDC
Operating Voltage Range	10.2–28.8 VDC
Maximum Output Current	1A continuous 4A temporary overload, 50ms 6A temporary overload, 10ms
On Voltage Drop	25mV
OFF to ON Response	0.5 ms
ON to OFF Response	0.5 ms
Status Indicators	Logic Side (7 points)
Commons	1
Maximum Applicable Fuse	8A
External Power Supply Required	12–24 VDC (-20% / +25%) @ 50mA

P1-15CDD2

INPUTS: C1, 1, 2, 3, 4, 5, 6, 7, 8

OUTPUTS: V+, 1, 2, 3, 4, 5, 6, 7, C2

12-24VDC INPUT/OUTPUT

P1-15CDD2 Input / Output

The P1-15CDD2 Input/Output Module provides eight 12–24 VDC inputs plus seven 12–24 VDC outputs that source up to 1A per output to loads connected to ground 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

QR Code

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.
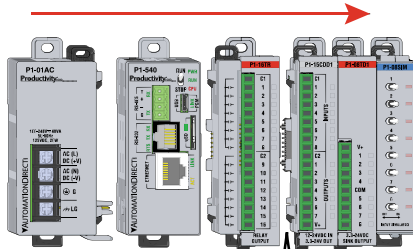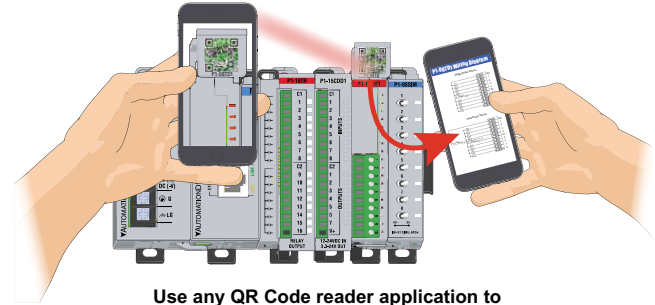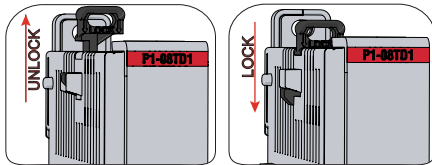

Step Two: Attach field wiring using the removable terminal block or *ZIPLink* wiring system.

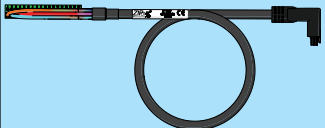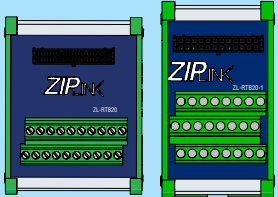Check all latches are secure after modules are connected.

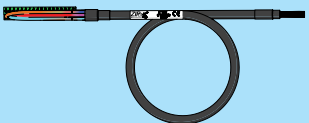WIRE STRIP LENGTH

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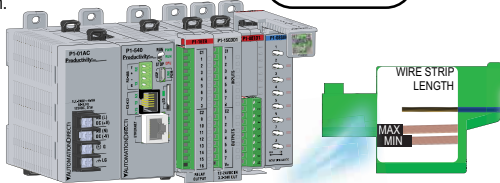
Step Three: To unstack modules, pull locking latch up into the unlocked position and then pull modules apart.

UNLOCK
P1-08TD1

LOCK
P1-08TD1

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

www.productivity1000.com   Tech Support 770-844-4200

Wiring Options

1 ZIPLink Connection System
Cable + ZIPLink Module = Complete System

ZIPLink pre-wired terminal block cables

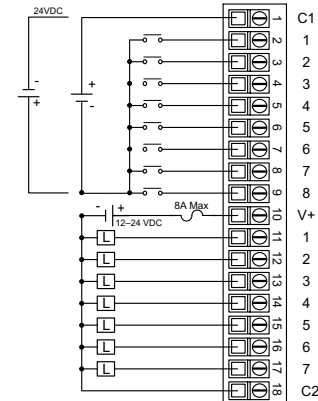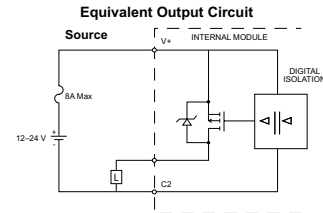|	
0.5 m (1.6 ft) cable	ZL-P1-CBL18
1.0 m (3.3 ft) cable	ZL-P1-CBL18-1
2.0 m (6.6 ft) cable	ZL-P1-CBL18-2
ZIPLink Modules **Feed through**	ZL-RTB20 ZL-RTB20-1

2 Terminal Block with pigtail cable

1.0 m (3.3 ft) cable	ZL-P1-CBL18-1P
2.0 m (6.6 ft) cable	ZL-P1-CBL18-2P

3 Screw Terminal Block only

P2-RTB
(Quantity 1)

4 Spring Clamp Terminal Block only

P2-RTB-1
(Quantity 1)

P1-15CDD2 Schematic and Wiring Diagram

Equivalent Input Circuit

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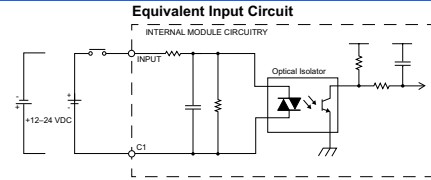
WARNING: To minimize the risk of potential safety problems, you should follow all applicable local and national codes that regulate the installation and operation of your equipment. These codes vary from area to area and it is your responsibility to determine which codes should be followed, and to verify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

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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)
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)	18 Position Removable Terminal Block
Weight	71g (2.5 oz)
Agency Approvals	UL 61010-2-201 file E139594, Canada & USA CE (EN61131-2 EMC and EN61010-2-201 Safety)*

*See CE Declaration of Conformance for details.

Document Name	Edition/Revision	Date
P1-15CDD2-DS	1st Edition	9/5/2017