Output Specifications

Outputs per Module	32 sourcing
Voltage Rating	24VDC
Operating Voltage Range	20.4–28.8 VDC
Maximum Output Current	0.1 A per point
Maximum Inrush Current	Self-limited
On Voltage Drop	0.5 VDC @ 0.1 A
OFF to ON Response	≤0.5 ms
ON to OFF Response	≤0.5 ms
Overcurrent Trip	0.6 A min., 1.2 A max., >50ms duration
Minimum Load Current to Avoid Open Load Fault Detection	113µA
Over Temperature Shutdown	Independent to each output
Load Resistance to Avoid Open Load Fault Detection	<58kΩ
Status Indicators	Logic Side (16 points x 2)
External 24V Error Indicator	Logic Side (1 points)
Fault Condition Indicator	Logic Side (16 points x 2)
Commons per Module	4 (non- isolated)
Recommended External Fuse	None
External Power Supply Required	24VDC (-15% / +20%) @ 80mA

AUTOMATIONDIRECT

Productivity2000

P2-32TD2P Sourcing Protected Output

The P2-32TD2P DC Output Module provides thirty-two 24VDC sourcing outputs with short circuit and overload protection for use with the Productivity2000 System.

Document Name	Edition/Revision	Date
P2-32TD2P-DS	1st Ed.	8/24/2016

Warranty: Thirty-day money-back guarantee. Two-year limited replacement. (See www.productivity2000.com for details).

WARNING: Do not apply field power until the following steps are completed. See hot-swapping procedure for exceptions.

2 rotate to seated position

Step One: Align module catch with base slot and rotate module into connector.

1 Align with slot
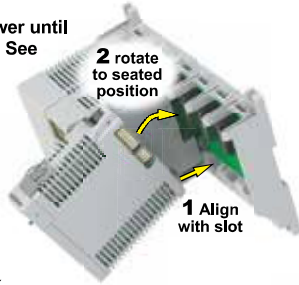
Step Two: Pull top locking tab toward module face. Click indicates lock is engaged.

Locked   Unlocked

Step Three: Attach field wiring using the *ZIP*Link wiring system.

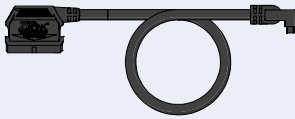Use any QR Code reader application to display the module's product insert.

Caution: *If possible, remove field power prior to proceeding. If not, then* **EXTREME** *care* **MUST** *be taken to prevent damage to the module, or even personal injury due to a short circuit from the live terminal block.*

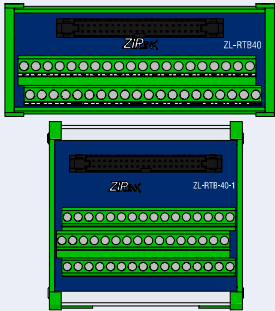| Important Hot-Swap Information |
|---|
| **The Productivity2000 supports hot-swap!** Individual modules can be taken offline, removed, and replaced while the rest of the system continues controlling your process. Before attempting to use the hot-swap feature, be sure to read the hot-swap topic in the programming software's help file or our online documentation at AutomationDirect.com for details on how to plan your installation for use of this powerful feature. |

Wiring Options

1 ZIPLink Connection System
Cable + ZIPLink Module = Complete System

ZIPLink pre-wired cables

0.5 m (1.6 FT) cable	ZL-CBL40
1.0 m (3.3 FT) cable	ZL-CBL40-1
2.0 m (6.6 FT) cable	ZL-CBL40-2

ZIPLink Modules

Feed through	ZL-RTB40
	ZL-RTB40-1

Note: P2-32TD1P is UL/CUL listed when used with ZL-RTB40.

2 ZIPLink pigtail cable

1.0 m (3.3 FT) cable	ZL-CBL40-1P
2.0 m (6.6 FT) cable	ZL-CBL40-2P
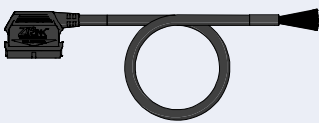
Note: For use with third party devices.

Wiring Diagram and Schematic

Source

INTERNAL MODULE
+24V
DIGITAL ISOLATION
+24VDC
L
COM

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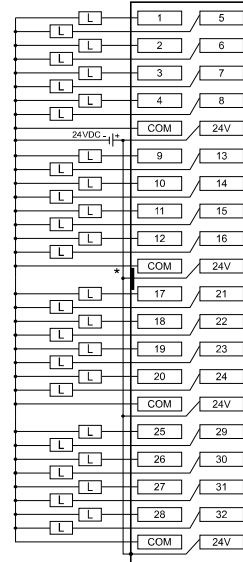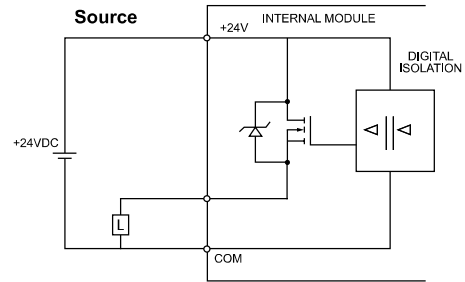
WARNING: To minimize the risk of potential safety problems, you should follow all applicable local and national codes that regulate the installation and operation of your equipment. These codes vary from area to area and it is your responsibility to determine which codes should be followed, and to verify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

Connector Specifications

Connector Type	IDC style header with latch, Omron XG4A-4034
Number of Pins	40 point
Pitch	0.1 in. (2.54 mm)

LED Status

Fault Condition	Fault Status Indication	Operation to Reset Fault
Missing External 24VDC	V1 LED is ON	Apply external 24VDC
Open Load (Note 1)	F LED is ON (Note 2)	Connect the load
Over Temperature or Over Load Current		Turn the output OFF or cycle power
LED Page Shifting		
The "A" LED is ON when the LED states correspond to outputs/faults 1-16. The "B" LED is ON for outputs/faults 17-32.		

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	4000mW
Enclosure Type	Open Equipment
Module Keying to Backplane	Electronic
Module Location	Any I/O slot in any local or remote base in a Productivity2000 System.
Field Wiring	Use *ZIP*Link Wiring System. 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.productivity2000.com
Weight	105g (3.7 oz)
Agency Approvals	UL61010-2-201 file E139594, Canada & USA CE (EMC 61131-2*, Safety EN61010-2-201)

*Meets EMC and Safety requirements. See the D.O.C. for details.

Note 1: Open Load Fault is always enabled, but is only valid when output is OFF. If Open Load Fault happens while output is ON, fault will not appear until you turn OFF output.

Note 2: The SEL button cycles between the output status and fault status. If the "F" LED is OFF the numbered LEDs are showing output status. If the "F" LED is ON the numbered LEDs are showing fault status of each output. The "V1" LED is independent of fault or output display.