Output Specifications

Outputs per Module		8
Operating Voltage Range (Tolerance)	(CE)	6.25 - 24 VDC (-15% / + 20%) 6 - 120 VAC (-15% / + 10%)
	(UL)	120VAC / 30VDC, 4A / point
Output type		6 Relays, FORM A (SPST)
		2 Relays, FORM C (SPDT)
AC Frequency		47 - 63 Hz
Maximum Output Current @ Temp		4A / point @ 60°C for both AC and DC
		2A / point if used with *ZIP*Link Cable
Minimum Load Current		5mA @ 5VDC
Maximum Inrush Current		4A for 10ms
OFF to ON Response		m 10ms
ON to OFF Response		m 10ms
Status Indicators		Logic Side (8 points)
Commons		8 Isolated (1 point / common)
External Fuses (user supplied)		6.3A Max

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P2-08TRS
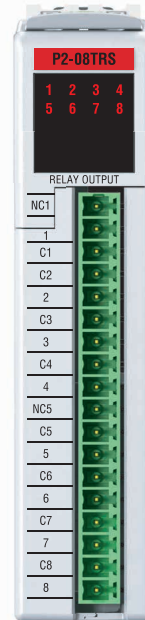
RELAY OUTPUT

P2-08TRS Relay Output

The P2-08TRS high-current isolated relay output module provides eight 4A surge-protected outputs for extended relay life. Module offers both normally open and normally closed relay contacts for use with the Productivity2000 system.

| Document Name	Edition/Revision	Date
P2-08TRS-DS	2nd Ed.	9/5/2019

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

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

Module Installation

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

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

2 rotate to seated position

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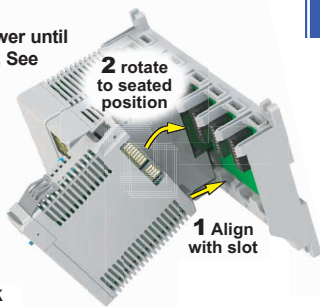
Step Two: Pull top locking tab toward module face. Click indicates lock is engaged.

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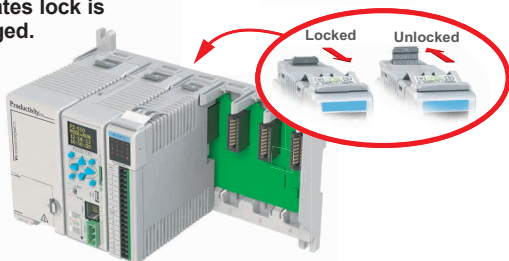
Step Three: Attach field wiring using the removable terminal block or *ZIP*Link wiring system.

WIRE STRIP LENGTH

MAX
MIN
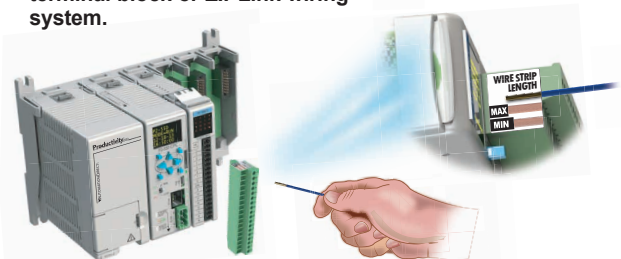
QR Code

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.

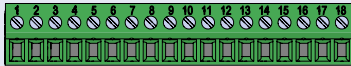# Wiring Options

1 ZIPLink 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
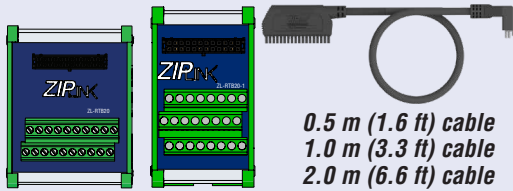
ZL-P2-CBL18
ZL-P2-CBL18-1
ZL-P2-CBL18-2

2 *Terminal Block with pigtail cable*
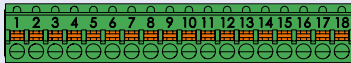

1.0 m (3.3 ft) cable
2.0 m (6.6 ft) cable

ZL-P2-CBL18-1P
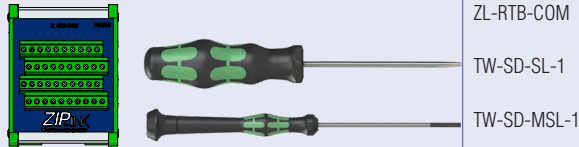ZL-P2-CBL18-2P

3 *Screw Terminal Block only*

P2-RTB
(Quantity 1)

4 *Spring Clamp Terminal Block only*
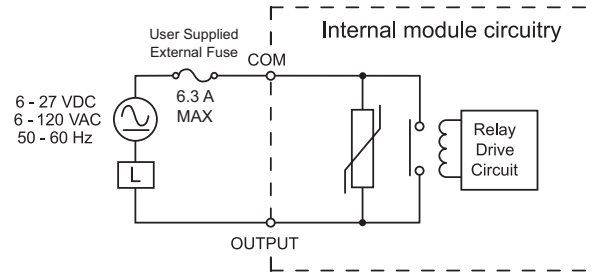

P2-RTB-1
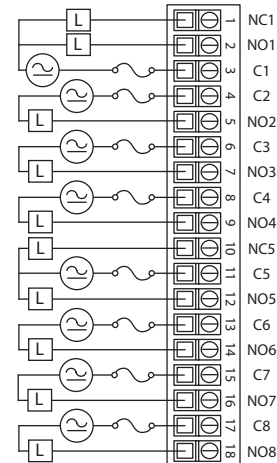(Quantity 1)

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

Wiring Diagram and Schematic

Internal module circuitry

User Supplied
External Fuse   COM

6 - 27 VDC
6 - 120 VAC
50 - 60 Hz

6.3 A
MAX

L

Relay
Drive
Circuit

OUTPUT

6 - 27 VDC
6 - 120 VAC
50 - 60 Hz

NC1
NO1
C1
C2
NO2
C3
NO3
C4
NO4
NC5
C5
NO5
C6
NO6
C7
NO7
C8
NO8

Typical Relay Life

Voltage & Type of Load	Operations at 4A Load Current
30VDC Resistive	100,000
30VDC Solenoid	100,000
120VAC Resistive	100,000
120VAC Solenoid	100,000

Removable Terminal Block Specifications

Part Number	P2-RTB	P2-RTB-1
Number of 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 Maximum 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 Maximum 19/64 in. (7–8 mm) Strip Length
Conductors	"USE COPPER CONDUCTORS, 75°C" or Equivalent.	
Screw Driver Width	0.1 inch (2.5 mm) Maximum*	
Screw Size	M2	N/A
Screw Torque	2.5 lb·in (0.28 N·m)	N/A

*Recommend 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	3W
Enclosure Type	Open Equipment
Module Keying to Backplane	Electronic
Module Location	Any I/O slot in a Productivity2000 System.
Field Wiring	Use *ZIP*Link Wiring System or removable terminal block (not included). 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
Connector Type (not included)	18 position removable terminal block
Agency Approvals	UL 61010-1 and UL 61010-2-201 File E139594, Canada and USA CE (EN 61131-2 EMC, EN 61010-1 and EN 61010-2-201 Safety)*

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