Output Specifications

Outputs per Module		8
Operating Voltage Range (Tolerance)	(CE)	6.25 - 24 VDC (-15% / + 20%) 6 - 240 VAC (-15% / + 10%)
	(UL)	6 - 27 VDC (-15% / + 10%) 6 - 240 VAC (-10% / + 10%)
Output type		Relay, form A (SPST)
AC Frequency		47 - 63 Hz
Maximum Output Current @ Temp		1.75A / point @ 60°C for both AC and DC
Minimum Load Current		5 mA @ 5 VDC
Maximum Inrush Current		4A for 10 ms
OFF to ON Response		≤ 10 ms
ON to OFF Response		≤ 10 ms
Status Indicators		Logic Side (8 points)
Error Status Indicator		Blown Fuse (one for each point)
Terminal Type (not included)		20 position removable terminal block
Commons		8 Isolated (1 point / common)
Fuses		3.15A user replaceable fuse per common For replacement, order P3-FUSE-1. (Qty. 5/pkg.)

WARNING: Explosion hazard – Substitution of components may impair suitability for Class I, Division 2.

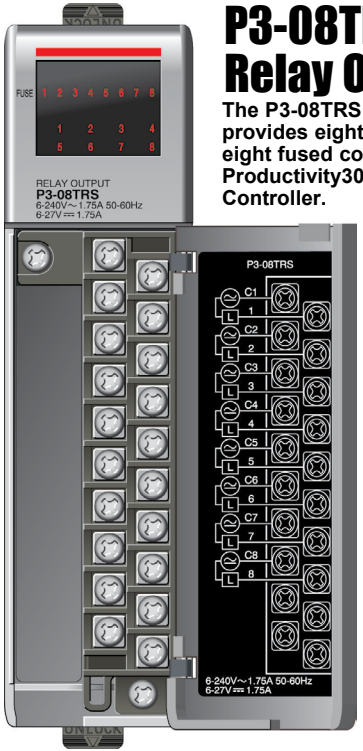
AVERTISSEMENT: Risque d'explosion : la substitution de composants peut compromettre la convenance pour la Classe I, Zone 2 ou pour la Classe I, Division 2.

Warranty: Thirty-day money-back guarantee. Two-year limited replacement. (See www.automationdirect.com/P3000 for details).

Document Name	Edition/Revision	Date
P3-08TRS-M	1st Ed. Revision E	03/02/2020

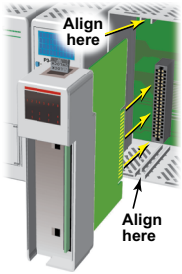
P3-08TRS Isolated Relay Output

The P3-08TRS Isolated Relay Output Module provides eight 1.75 amp relay outputs with eight fused commons for use with the Productivity3000 Programmable Automation Controller.



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

Module Installation Procedure

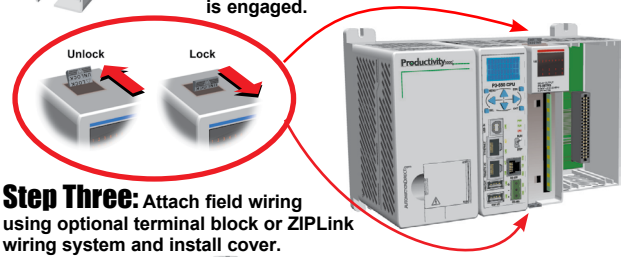


WARNING: Do not apply field power until the following steps are completed. See hot-swapping procedure for exceptions.

AVERTISSEMENT: Ne pas appliquer la puissance de champ avant l'exécution des étapes qui suivent. Consultez la procédure de remplacement à chaud pour les exceptions.

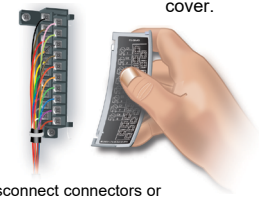
Step One: Align circuit card with slot and press firmly to seat module into connector.

Step Two: Pull top and bottom locking tabs toward module face. Click indicates lock is engaged.



Step Three: Attach field wiring using optional terminal block or ZIPLink wiring system and install cover.

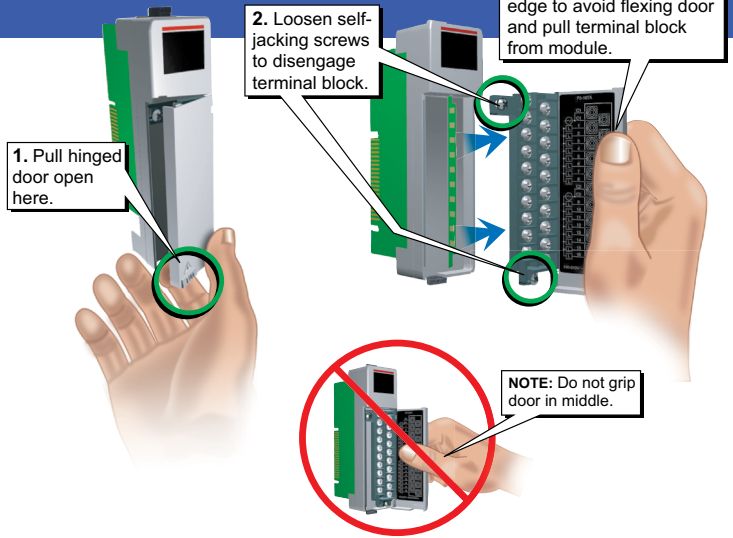
To install or remove terminal block cover, press middle to flex cover.



WARNING: Explosion hazard – Do not connect or disconnect connectors or operate switches while circuit is live unless the area is known to be non-hazardous. Do not hot-swap modules unless the area is known to be non-hazardous.

AVERTISSEMENT: Risque d'explosion : ne pas connecter ou déconnecter les connecteurs ni actionner les commutateurs alors que le circuit est sous tension, à moins que la zone ne soit reconnue non dangereuse. Ne pas remplacer à chaud les modules à moins que la zone ne soit reconnue non dangereuse.

Terminal Block Removal



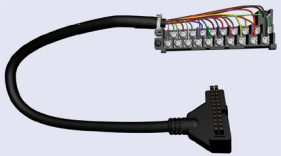
Important Hot-Swap Information

The Productivity3000 PAC supports hot-swap! Individual modules, expansion bases, and entire remote base groups can be taken offline, removed, and replaced while the rest of the PAC 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 terminal block cables

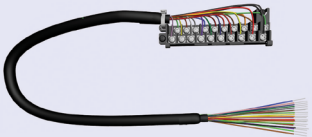


0.5m (1.6FT) cable	ZL-P3-CBL20
1.0m (3.3FT) cable	ZL-P3-CBL20-1
2.0m (6.6FT) cable	ZL-P3-CBL20-2

ZIPLink Modules

Feed through	ZL-RTB20

2 **Terminal Block with pigtail cable**

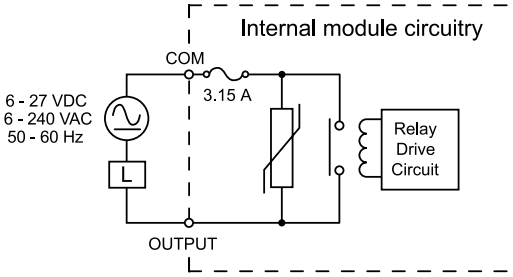


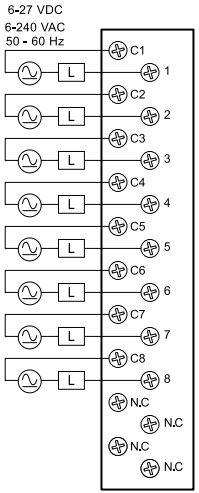
0.5m (1.6FT) cable	ZL-P3-CBL20-P
1.0m (3.3FT) cable	ZL-P3-CBL20-1P
2.0m (6.6FT) cable	ZL-P3-CBL20-2P

3 **Terminal Block only**

P3-RTB
(Quantity 1)

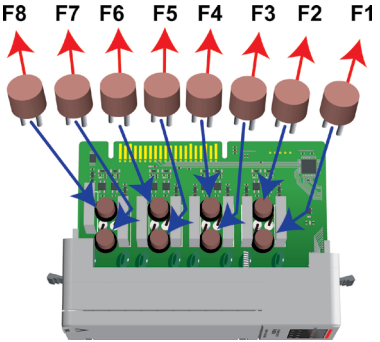
Schematic and Wiring Diagram





Replaceable Fuses

Order Part Number P3-FUSE-1.
(Qty. 5 per pkg.) One spare included with this module.



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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Typical Relay Life

Voltage & Type of Load	Operations at 2A Load Current
30VDC Resistive	150K
30VDC Solenoid	75K
120VAC Resistive	210K
120VAC Solenoid	140K
240VAC Resistive	150K
240VAC Solenoid	100K

Removable Terminal Block Specifications

Number of Positions	20 Screw Terminals
Wire Range	22-14 AWG (0.324 to 2.08 sq. mm) Solid / Stranded Conductor 3/64 in. (1.2 mm) insulation maximum “USE COPPER CONDUCTORS , 60°C” or equivalent.
Screw Driver Width	1/4 inch (6.5 mm) maximum
Screw Size	M3 size
Screw Torque	Field Terminals – 7- 9 in./lb (.0.882 - 1.02 Nm) Self-jacking Screws – 2.7 - 3.6 in./lb (0.3 - 0.4 Nm). Do not overtighten screws when installing terminal block.

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	1500VAC applied for 1 minute
Insulation Resistance	>10MΩ @ 500 VDC
Heat Dissipation	3.04W
Enclosure Type	Open Equipment
Agency Approvals	UL508 file E157382, Canada & USA UL1604 file E200031, Canada & USA CE (EN61131-2*) This equipment is suitable for use in Class 1, Division 2, Groups A, B, C and D or non-hazardous locations only.
Module Keying to Backplane	Electronic
Module Location	Any I/O slot in any local, expansion, or remote base in a Productivity3000 System.
Field Wiring	Removable Terminal Block (not included). Use ZIPLink Wiring System or optional terminal block. See “Wiring Options” on page 3.
Weight	135g (4.76 oz)

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

WARNING: Exposure to some chemicals may degrade the sealing properties of materials used in the Sealed Relay Device.

AVERTISSEMENT: L’exposition à certains produits chimiques peut dégrader les propriétés d’étanchéité des matériaux employés dans le dispositif de relais étanche.