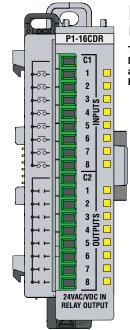
Input Specifications				
Inputs per Module	8 (sink/source)			
Rated Voltage	24VAC/VDC			
Operating Voltage Range	20.4-27.6 VAC/VDC, Max 27.6 VAC, 30VDC			
AC Frequency	47–63 Hz			
Input Current	8mA @ 24VAC/VDC			
Maximum Input Current	10mA @ 27.6 VAC, 30VDC			
Minimum ON Current	2.5 mA			
Maximum OFF Current	0.5 mA			
ON Voltage Level	>9.5 VDC, >8VAC			
OFF Voltage Level	<4.5 VDC, <4VAC			
OFF to ON Response	AC: 10ms DC: 6ms			
ON to OFF Response	AC: 20ms DC: 10ms			
Status Indicators	Logic Side (8 points)			
Commons	1 (8 points/common)			

Output Specifications			
Outputs per Module	8		
Rated Voltage	6–30 VDC 6–120 VAC		
Operating Voltage Range	5–30 VDC 5–144 VAC		
Output Type	Relay, Form A (SPST)		
AC Frequency	47–63 Hz		
Maximum Output Current	1A / point, 8A / common for both AC and DC 1A / point, 4A / common for both if used with ZIP Link Cable		
Minimum Load Current	5mA @ 5VDC		
Maximum Inrush Current	5A for 10ms		
OFF to ON, ON to OFF Response	≤ 10 ms		
Status Indicators	Logic Side (8 points)		
Commons	1 (8 points/common)		
Maximum Applicable Fuse	8A		

Productivity 1000



P1-16CDR Discrete Input / Relay Output

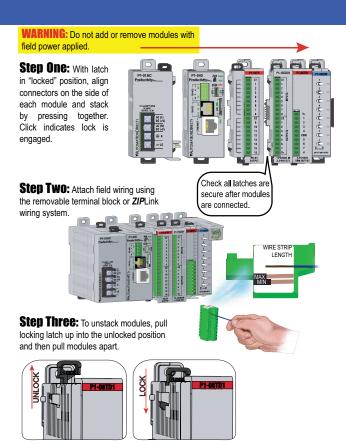
The P1-16CDR Discrete Input / Relay Output Module provides eight 24VAC/VDC inputs and eight relay outputs for use with the Productivity1000 system.

Output Specifications1
Module Installation
QR Code
Wiring Options
Schematic & Wiring Diagram
General Specifications
Terminal Block Specifications
Warning
•

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

Module Installation

QR Code



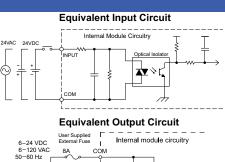


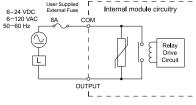
Wiring Options ZIPLink Feed Through Modules and Cables¹ ZL-RTB20 ZL-RTB20-1 ZIRINK 0.5 m (1.6 ft) cable ZL-P1-CBL18 1.0 m (3.3 ft) cable ZL-P1-CBL18-1 2.0 m (6.6 ft) cable ZL-P1-CBL18-2 Terminal Block with pigtail cable 1.0 m (3.3 ft) cable ZL-P1-CBL18-1P ZL-P1-CBL18-2P 2.0 m (6.6 ft) cable Screw Terminal Block only P2-RTB (Quantity 1) Spring Clamp Terminal Block only P2-RTB-1 (Quantity 1) Accessories² ZL-RTB-COM TW-SD-SL-1 TW-SD-MSL-1

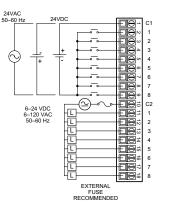
1.Cable + **ZIP**Link Module = Complete System

2. ZL-RTB-COM provides a common connection point for power or ground

P1-16CDR Schematic and Wiring Diagram







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	2730mW			
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	88g (3.2 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.

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