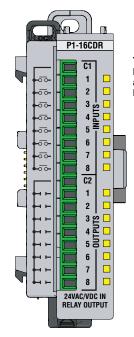
Input Specifications			
Inputs per Module	8 (sink/source)		
Rated Voltage	24VAC/VDC		
Operating Voltage Range	20.4-27.6 VAC/VDC, Max 27.6 VAC, 30VDC		
AC Frequency	47–63 Hz		
Input Current	8mA @ 24VAC/VDC		
Maximum Input Current	10mA @ 27.6 VAC, 30VDC		
Minimum ON Current	2.5 mA		
Maximum OFF Current	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, 8A / common for both is used with <b>ZIP</b> 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

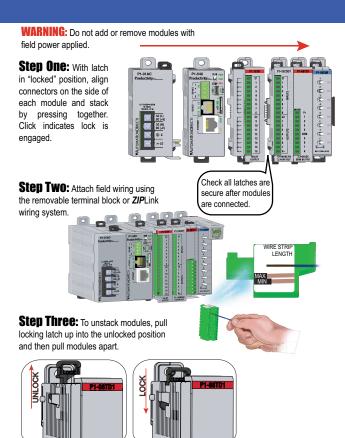
The P1-16CDR Discrete Input / Relay Output Module provides eight 24VAC/VDC inputs and eight relay outputs for use with the Productivity1000 system.

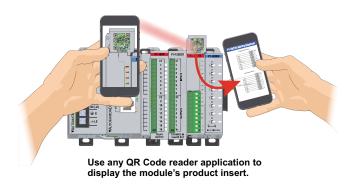
Output Specifications
Module Installation
QR Code
Wiring Options3
Schematic & Wiring Diagram3
General Specifications
Terminal Block Specifications
Warning

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**

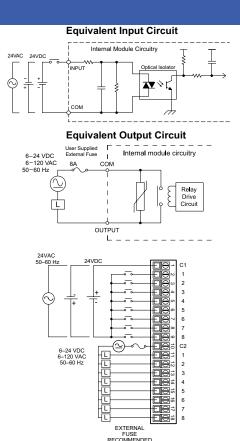
# **QR Code**





#### **Wiring Options ZIPLink Connection System** Cable + ZIPLink Module = Complete System ZIPLink pre-wired terminal block cables 0.5 m (1.6 ft) ZL-P1-CBL18 cable 1.0 m (3.3 ft) ZL-P1-CBL18-1 cable 2.0 m (6.6 ft) ZL-P1-CBL18-2 cable ZIRINK 0000000 **ZIPLink Modules** ZL-RTB20 0000000 Feed through ZL-RTB20-1 0000000 Terminal Block with pigtail cable 1.0 m (3.3 ft) ZL-P1-CBL18-1P cable 2.0 m (6.6 ft) ZL-P1-CBL18-2P cable Screw Terminal Block only P2-RTB (Quantity 1) Spring Clamp Terminal Block only P2-RTB-1 (Quantity 1)

## **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 .

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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)   28–16 AWG (0.081–1.31 Solid / Stranded Conductor 3/64 in (1.2 mm) Insulation Max. 1/4 in (6–7 mm) Strip Length   19/64 in (7–8 mm) Strip L				
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				

<sup>\*</sup>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 <b>ZIP</b> 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 61010-2-201 file E139594, Canada & USA CE (EN61131-2 EMC and EN61010-2-201 Safety)*		

<sup>\*</sup>See CE Declaration of Conformance for details.

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