



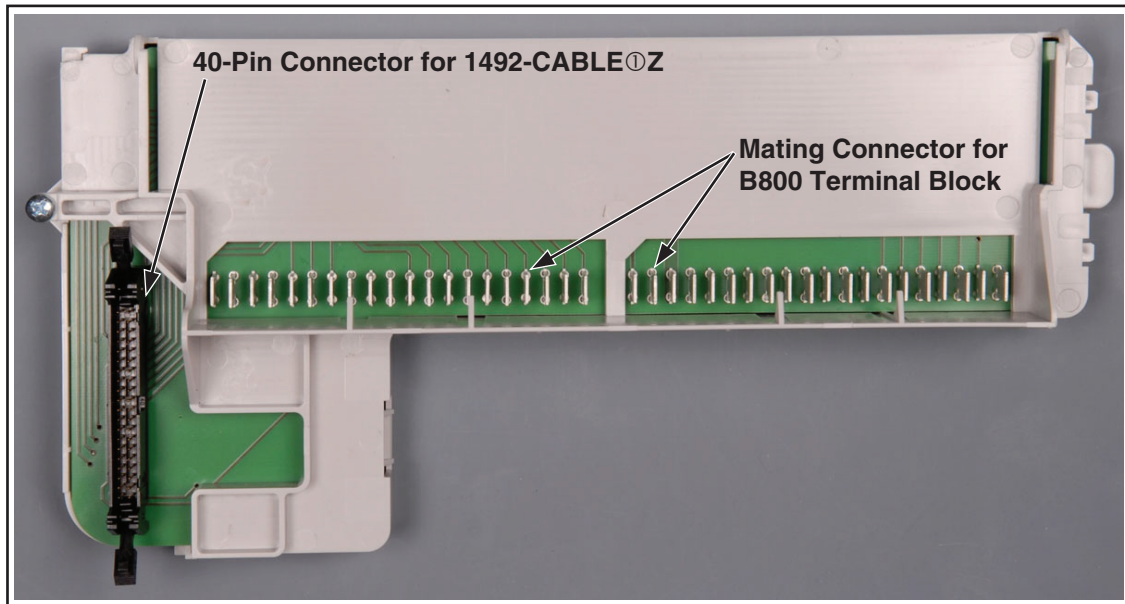
# Field Wire Conversion Module for Modicon B827-032 to 1756-IB32

(Cat 1492-CM800-LD010)

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## I. Module Description

The 1492-CM800-LD010 conversion module provides field wire signal conversion from a Modicon® B827-032, 20 to 28Vdc, 32-pt input module to a ControlLogix 1756-IB32, 10 to 31.2Vdc, 32-pt input module. The conversion module provides the mating connections to the B827-032 swing-arm (terminal block) with the attached field wires. It routes those signals, via its 40-pin connector and a 1492-CABLEⓈZ pre-wired cable to compatible terminals of the 1756-IB32 (refer to the Wiring Diagrams on page 2).



1492-CM800-LD010 Conversion Module



### WARNING

De-energize and lockout any and all power to all I/O field devices connected to the Modicon 800 I/O housing, and the power to the 800 I/O housing itself. Ensure all power is de-energized and locked out to any device in the control cabinet where the conversion is to be performed. Ensure work is performed by qualified personnel.

## II. Module Installation

The 1492-CM800-LD010 conversion module must be installed in a 1492 conversion base-plate and cover-plate assembly. The installation of the module into the assembly is explained in the Installation Manual that ships with the conversion assembly. For a list of compatible assemblies refer to Appendix A.

## III. Conversion Module Compatibility Matrix

Conversion Module	Compatible 800 Input Module	Compatible 1756 Input Module	Required 1492 Cable
1492-CM800-LD0010	B827-032	1756-IB32	1492-CABLEⓈZ

Ⓢ This is the cable length in meters and tenths of meters (e.g. 015 = 1.5 meters). Recommended cable length is 003 (00.3 meters).

## IV. Conversion Module Wiring Diagram

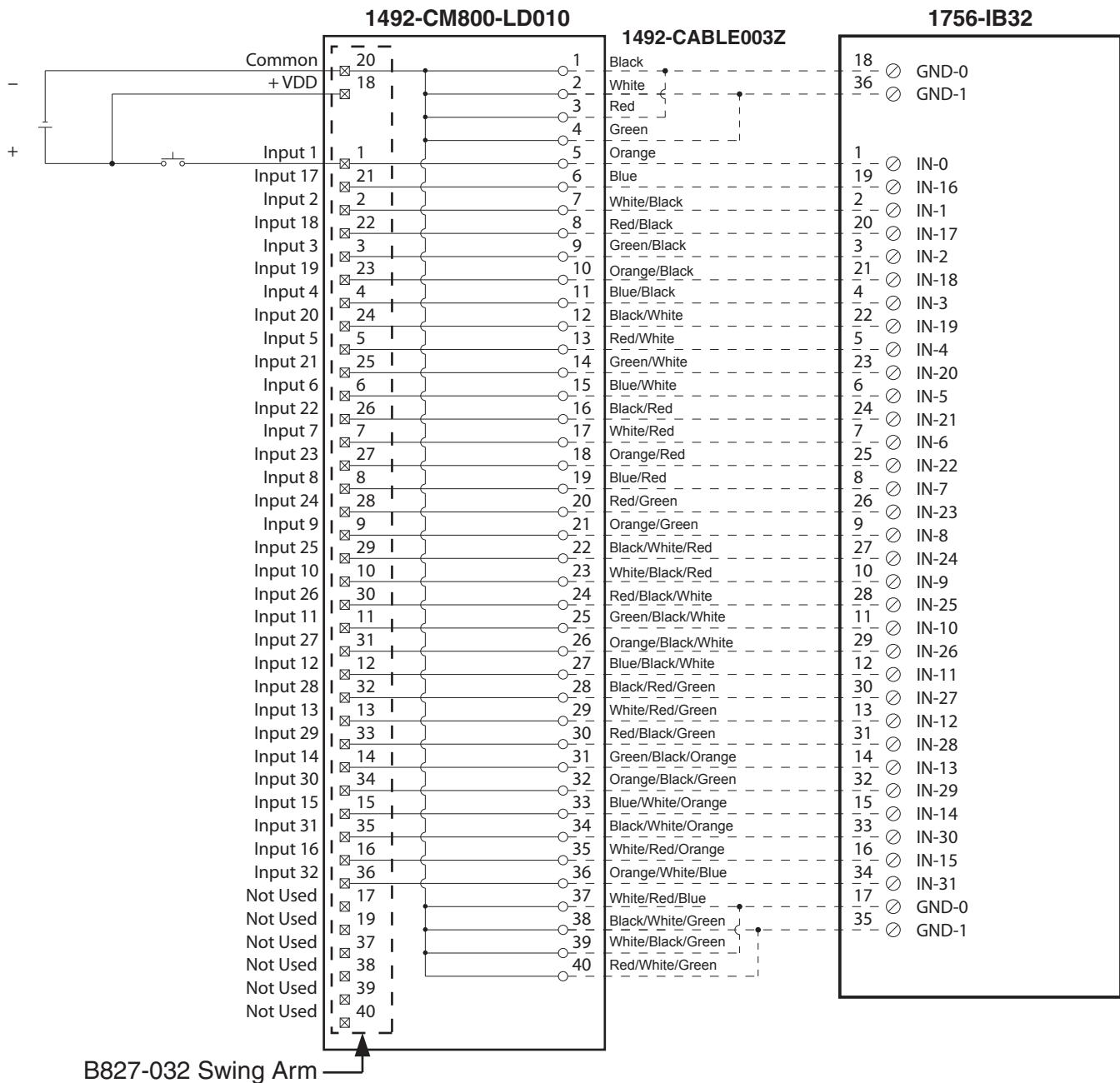
The following diagram shows the connections from the existing B827-032 swing-arm, through the conversion module, 1492 cable and to the 1756-IB32 input module. The diagram can be used as an aid in possible system troubleshooting.



### WARNING

There are several key application considerations and system specifications (bottom of drawing) when using these components (conversion module, cable and output module). Read and understand these considerations before installation.

### Conversion: B827-032 to 1756-IB32 with 1492-CM800-LD010



### Conversion Module Installation and Application Considerations

① The input delay times for the B827-032 module versus 1756-IB32 module are as follows:

	B827-032	1756-IB32
a) Off-to-On Delay	0.4ms	0.38ms (plus selectable filter)
b) On-to-Off Delay	1ms	0.42ms (plus selectable filter)

② The B827-032 modules provided a fuse for input power. The 1756-IB32 is NOT fused.

③ Refer to your B827-032 and 1756-IB32 Installation Manual wiring schematics and diagrams for more details.

[Reference Doc: 41170-760 (Version 03)]

## V. 1492-CM800-LD010 Conversion Module Specifications

(Operating specifications are when installed in the Conversion System base / cover-plate assembly)

Specification	Value
Dimensions	288.9 mm (height) x 139.7 mm (depth) x 44.5 mm (width) 11.37 in. (height) x 5.5 in. (depth) x 1.75 in. (width)
Approximate Shipping Weight	300g (0.66 lbs) (includes carton)
Storage Temperature	-40 to +85°C (-40 to +185°F)
Operating Temperature	0 to 55°C (32 to 131°F)
Operating Humidity	5 to 95% at 55°C (non-condensing)
Shock	
Non-operating	50g
Operating	30g
Operating Vibration	2g @ 10-500Hz
Maximum Operating Voltage	150 Vdc
Max. Module Operating Current	
Per Point:	2 Amps (1492-CABLE connection pins are limited to 2A per pin)
Per Module:	12 Amps
	<b>NOTICE</b> Refer to the Wiring Diagram(s) for current limits for a specific configuration.
Agency Certifications	UL Classified: Under UL File Number E113724 CSA CE: compliant for all applicable directives
Pollution Degree	2
Environmental Rating	IP20

## VI. Appendix A - 800 Housing to 1756 Chassis Conversion System Selection Process

- 1) Determine the number of 800 I/O modules actually used in the 800 I/O Housing to be converted to 1756 I/O.
- 2) Review the data in Column 5 from the below table, and select a 1756 I/O Chassis which meets your conversion needs from Step 1. Ensure the information from the I/O Conversion module table is reviewed first since in some cases, two 1756 modules are needed to replace one 800 I/O module.
- 3) Once the 1756 Chassis is selected, refer to Column 7 and select the Conversion Assembly.

1	2	3	4	5	6	7
Modicon 800 I/O Housing Cat Number	Max. Number of 800 Housing Slots for I/O	800 Housing Width Dimension	1756 I/O Chassis Catalog Number	Max. Number of 1756 Chassis Slots for I/O ①	1756 Chassis Width ③④ Dimension	Conversion Assembly Catalog Number ②
AS-H810-xxx	3	10.25"	1756-A4	3	10.25"	1492-MUA4-MB3
AS-H819-103	4	17.5"	1756-A7 or 1756-A10	A7 = 6, A10=9	A7 = 14.49" A10 = 19.02" ④	1492-MUA7-A10- MB4679 ⑤
AS-H819-209	6	17.5"		A7 = 6, A10=9	A7 = 14.49" A10 = 19.02" ④	
AS-H819-100	7	17.5"		A7 = 6, A10=9	A7 = 14.49" A10 = 19.02" ④	
AS-H827-103	8	27.1"	1756-A10 or 1756-A13	A10 = 9, A13=12	A10 = 19.02" A13 = 23.15"	1492-MUA10-A13- MB81011 ⑤
AS-H827-209	10	27.1"		A10 = 9, A13=12	A10 = 19.02" A13 = 23.15"	
AS-B827-100	11	27.1"		A10 = 9, A13=12	A10 = 19.02" A13 = 23.15"	

① One chassis slot required for the ControlLogix processor or a remote I/O adapter type module.

② The footprint and mounting dimensions of the 1492 Conversion Assembly (base plate and cover plate) match those of the Modicon I/O Housing.

③ Width dimension includes the 1756 Chassis power supply.

④ Surplus Chassis width as compared to the 800 I/O Housing is divided equally when mounting it on the Conversion Assembly.

⑤ Mounting holes for the 1756 I/O Chassis are pre-drilled and pre-tapped into the Conversion Assembly cover plate.

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