



Infrastructure for the Architecture

Creating an electrical infrastructure that maximizes the reliability of your critical control circuits

Distributing Power —Three Wire Applications

Application

This solution is designed to distribute DC power to applications with three wires, such as: sensors, switches, and analog PLC input cards.

Component Solution

It is very often necessary to distribute DC power to various devices. This application shows you how to do it efficiently in a DC Control 3-Wire application using a combination of 1492-WTF3 and 1492-WTS3 terminal blocks. The 1492-WTF3 terminal block is used for the incoming power and distributes the power to the 1492-WTS3 terminal blocks. Both the + and - connections are jumpered to allow for easy connection of the desired devices.

The WTF3 and WTS3 terminal blocks contain three different circuits to cover the three connections needed for three wire applications. Compared to a single level terminal block, this solution offers a 50% panel space reduction. The 1492-WTF3 and 1492-WTS3 terminal blocks are rated to 300V AC/DC, 10A and from #26-14 AWG.

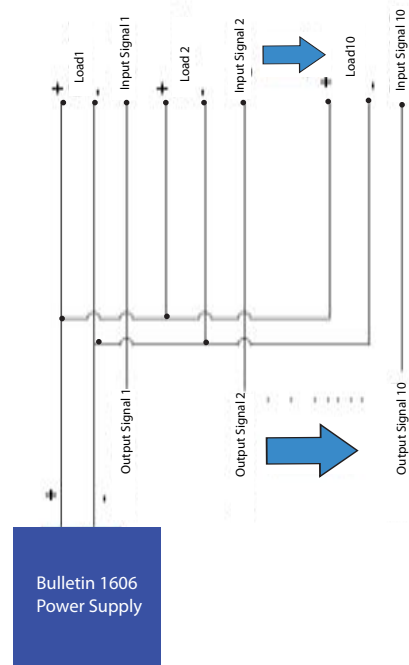
Triple Level Terminal Blocks



Single Level Terminal Blocks



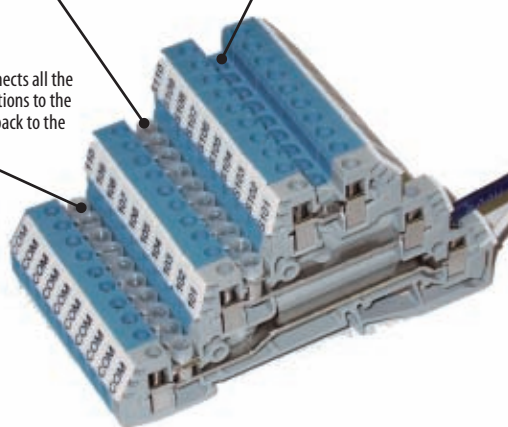
50% panel space savings over single level terminal blocks.



This jumper distributes positive current to connections 101...110.

The upper level is to route the output signal from the sensor to the PLC

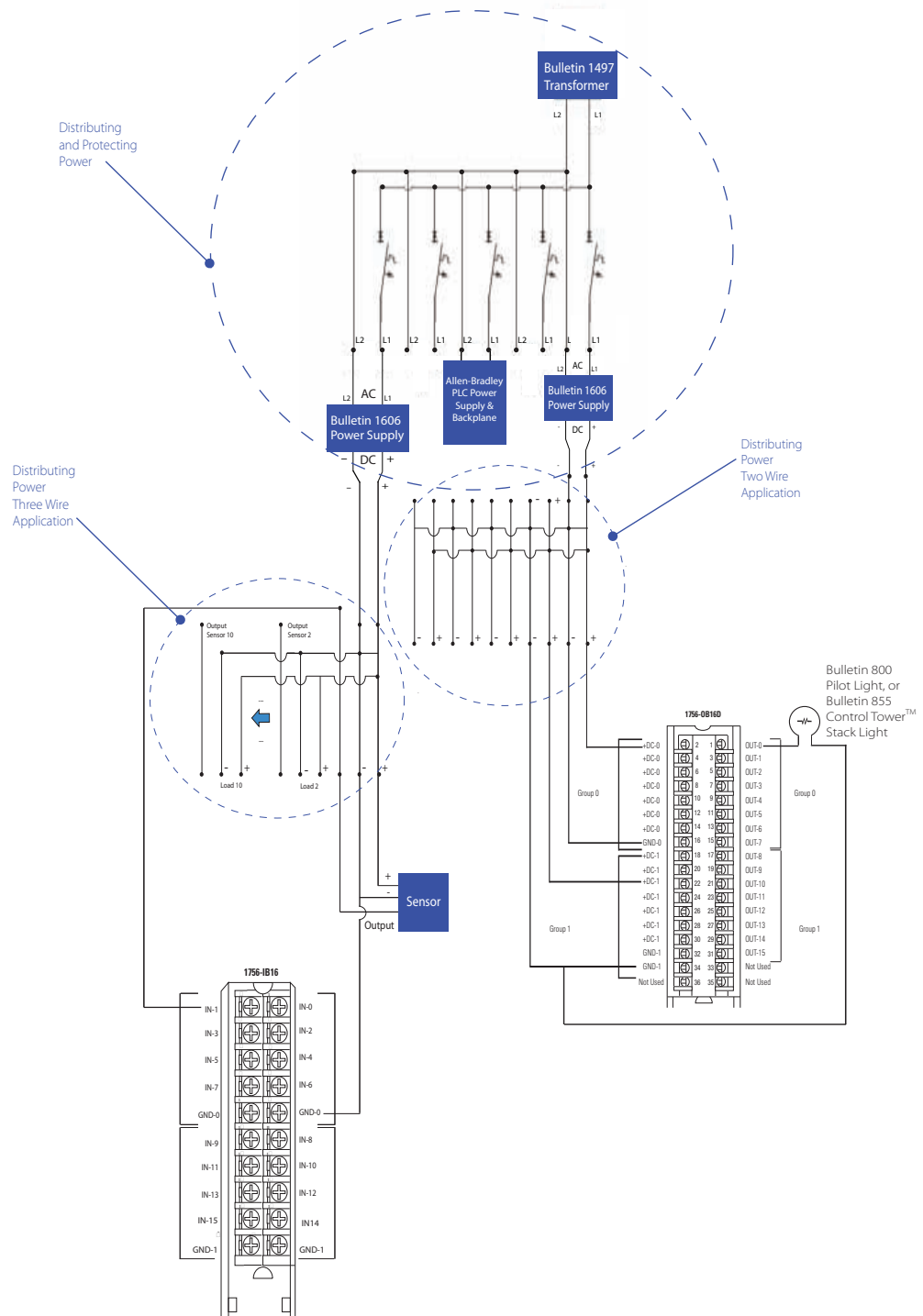
This jumper connects all the negative connections to the common going back to the power supply



Component Solution Bill of Materials

Product	Cat. No.	Qty
Three circuit terminal block	1492-WTF3	1
Three circuit sensor block	1492-WTS3-B	9
End Barrier	1492-EBTF3	1
Screw in center jumper	1492-CJT5-10	2
Terminal block marker tags	1492-MS5X9	1
10A Power supply	1606-XLS240E	1

Typical Application



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Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444
 Europe/Middle East/Africa: Rockwell Automation, Vorstlaan/Boulevard du Souverain 36, 1170 Brussels, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640
 Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846