WSOI-100 Quick Start Guide

Product overview:

The WSOI-100 *Wiegand Signal Optical Isolator* is designed to provide isolation between different Wiegand sources. The input side (J1) and output side (J2) are electrically isolated, using optical-couplers to transmit the Wiegand signal from the input side to the output side.

What is included:

☐UNIT ☐ Warranty ☐ Quick Start Guide

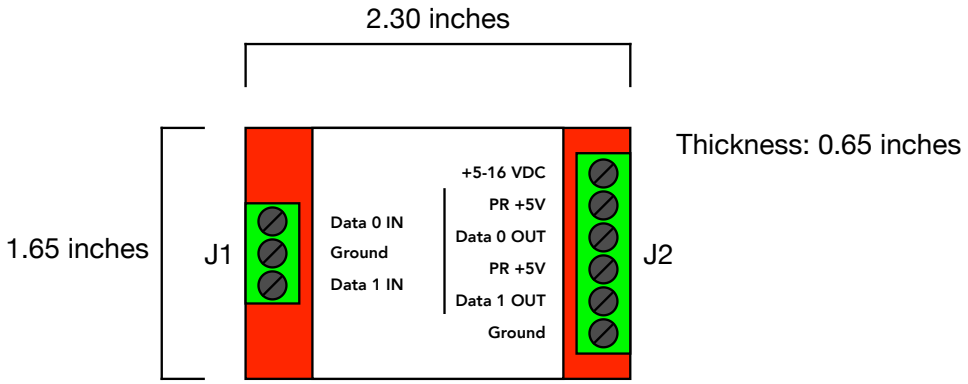
Product applications:

The WSOI-100 is used primarily in the following applications:
1) Connecting two Wiegand readers to one access controller Wiegand port;
2) Connecting one Wiegand reader to two different access controllers;
3) Connecting Wiegand devices that operate the Wiegand lines at different voltage levels.

The WSOI-100 is necessary when the Wiegand devices in these applications operate the Wiegand data lines at different voltages. The WSOI-100 may also be used in applications where Wiegand devices are not able to be electrically connected, such as issues with power supplies or pull-up resistors.

Bench testing:

With existing access control equipment:
Since bench testing is not practical in these applications, follow the appropriate Quick Start Guide wiring diagram, install the WSOI-100 with the existing equipment, and test the system thoroughly.
With new access control equipment:
Bench testing is recommended. Refer to the appropriate Quick Start Guide wiring diagram and set up a bench test accordingly before installing equipment in the field.



J1 Header:

Data 1 IN - Wiegand Data Input 5-24 VDC
Ground - Common Data Ground
Data 0 IN - Weigand Data Input 5-24 VDC

J2 Header:

+5-16 VDC - Power Input, 12 VDC @ 20mA
PR +5V - Connection to pull-up resistor, 1.5K @ 5VDC
Data 0 OUT - Wiegand Data Output 5 VDC
PR +5V - Connection to pull-up resistor, 1.5K @ 5VDC
Data 1 OUT - Wiegand Data Output 5 VDC
Ground - Power and Common Data Ground

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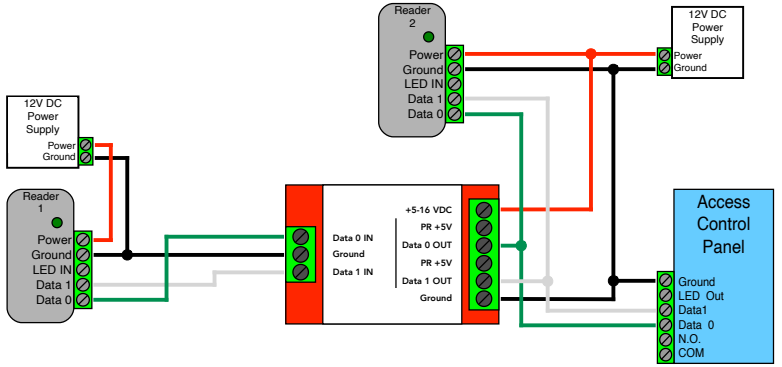
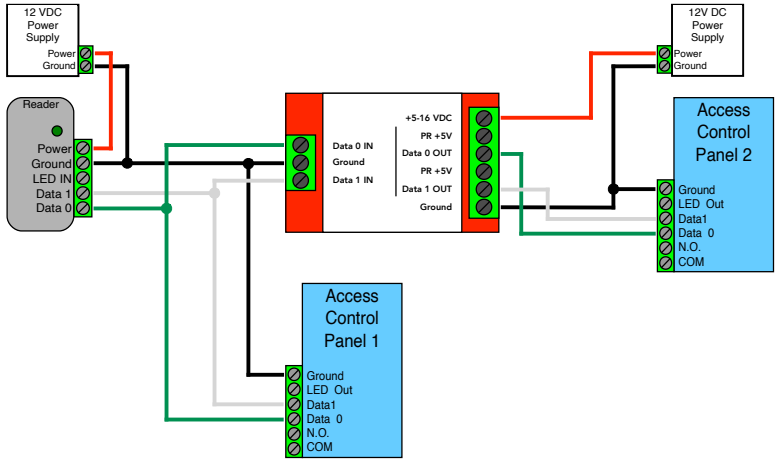
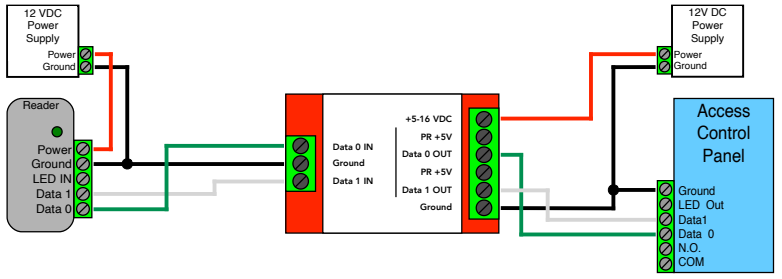
Wiring Diagram - Two Readers to One Access Controller



Wiring Diagram - One Reader to Two Access Controllers



Wiring Diagram - One Reader to One Access Controller



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