CVX-OPTW Quick Start Guide

Complete documentation PDFs at **CypressIntegration.com**

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Product overview:

The CVX-OPTW 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 of the CVX-OPTW.

What is included:

☐ CVX-OPTW   ☐ Warranty   ☐ Quick Start Guide

Product applications:

The CVX-OPTW 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 CVX-OPTW is necessary when the Wiegand devices in these applications operate the Wiegand data lines at different voltages. The CVX-OPTW may also be used in applications where Wiegand devices are not able to be electrically connected, such as issues with power supplies or pullup resistors.
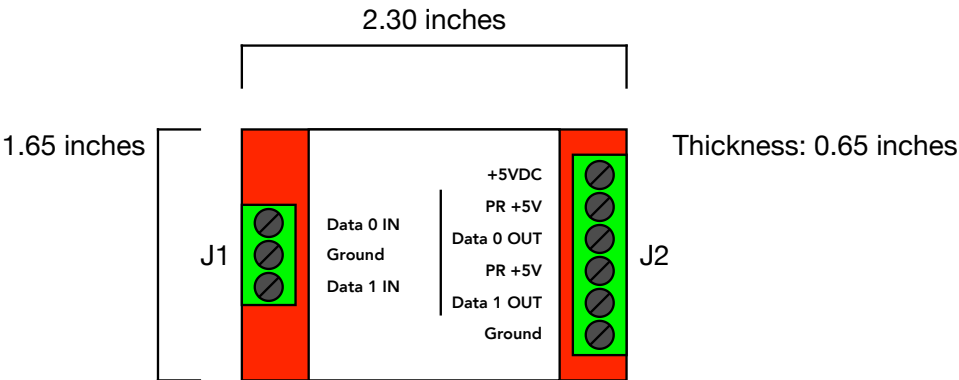
Bench testing:

With existing access control equipment:

Since bench testing is not practical in these applications, follow the appropriate Quick Start Guide wiring diagram, install the CVX-OPTW 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.
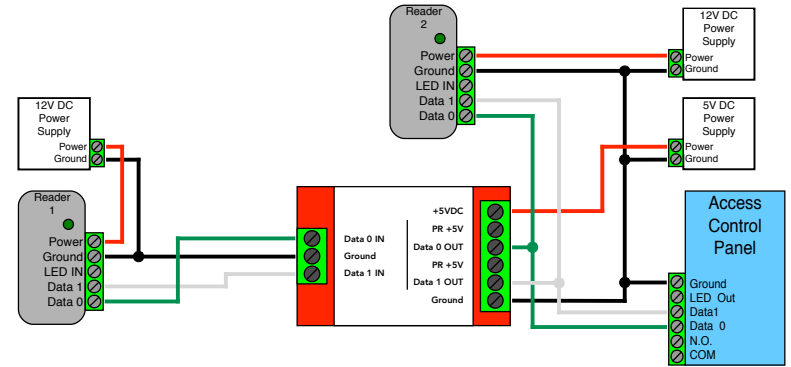

2.30 inches

1.65 inches

Thickness: 0.65 inches

J1 — Data 0 IN / Ground / Data 1 IN

J2 — +5VDC / PR +5V / Data 0 OUT / PR +5V / Data 1 OUT / Ground

J1 Header:

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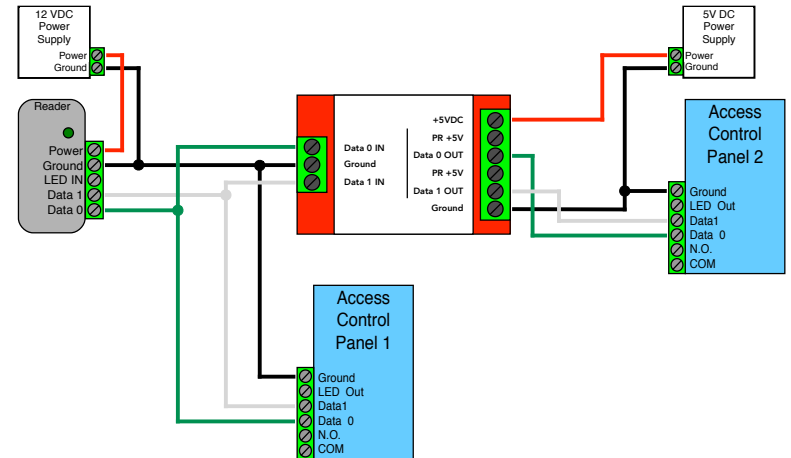**Ground** - Input Ground
Data 0 IN - Weigand Data Input 5-24 VDC

J2 Header:

+5VDC - Input, regulated 5VDC @ 30mA
PR +5V - Connection to pullup resistor, 1K @ 5VDC
Data 0 OUT - Wiegand Data Output 5-24 VDC
PR +5V - Connection to pullup resistor, 1K @ 5VDC
Data 1 OUT - Wiegand Data Output 5-24 VDC
Ground - Output 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