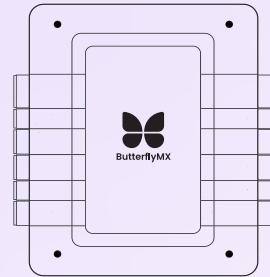
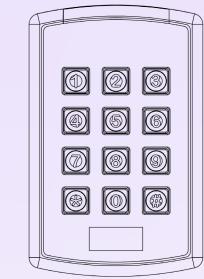
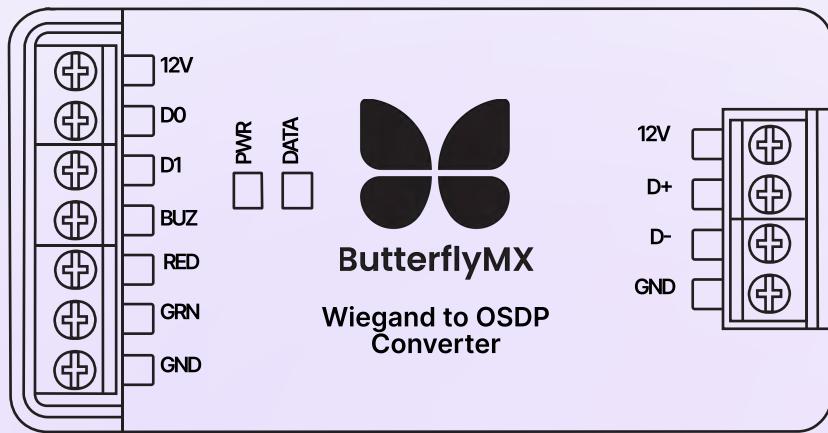


Wiegand-to-OSDP Converter

Compatibility Testing & Installation Guide



Overview

This ButterflyMX Wiegand-to-OSDP Converter installation guide walks certified installers through the process of testing and installing the ButterflyMX Wiegand-to-OSDP Converter.

Package Contents

Wiegand-to-OSDP Converter

What is NOT included

Reader Cables

To connect the readers to the Converter and the Converter to the ButterflyMX Access Controller.

Wiegand Reader

Use existing wiegand reader hardware in the building

ButterflyMX Access Controller

Required for connecting the 3rd-party Wiegand readers to the ButterflyMX Cloud

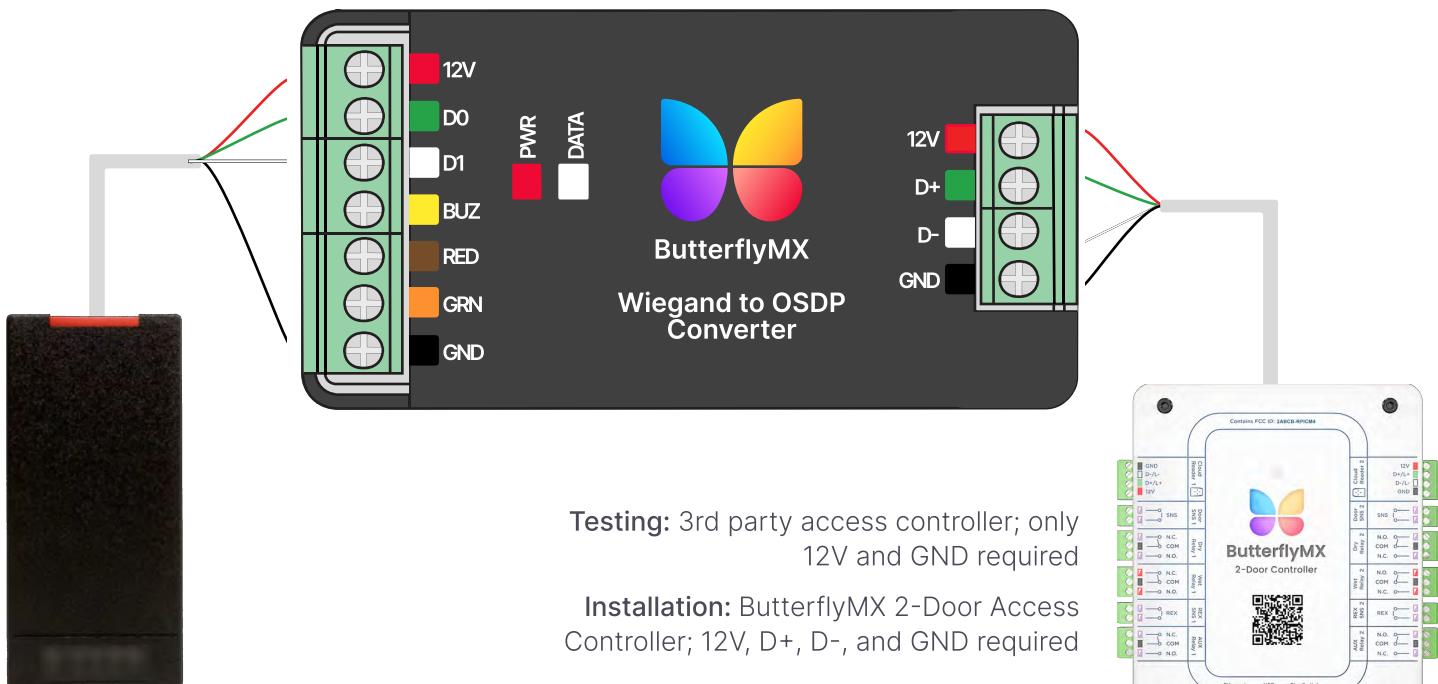
ATTENTION

Access control systems **must** meet all relevant local, state, and federal codes. It is the responsibility of the installer to make sure all electric locking hardware, REX devices, and physical exit devices are configured in a manner that is safe, effective, and meets all relevant codes.

The ButterflyMX Wiegand-to-OSDP Converter is meant for indoor use only. Please ensure that it is installed in a secure, weatherproof location. It is intended for use in indoor, dry conditions only.

This guide details installation for the ButterflyMX Wiegand-to-OSDP Converter only. If installing a ButterflyMX Access Controller, please see the Access Controller Installation Guide on the ButterflyMX website.

System Overview



Testing and Installation:
3rd party reader

Compatibility

Step 1: Verify Hardware Compatibility

- 1.** Connect the Wiegand reader to the left side of the converter, using the 7-position terminal block.
 - 2.** Attach the controller's power (12V) and ground (GND) wires to the right side of the converter, using the 4-position terminal block.
 - 3.** Verify that the Wiegand-to-OSDP converter is receiving power by checking that the data and power LEDs are illuminated.
 - 4.** Scan the fob or sticker on the Wiegand reader as usual.
 - 5.** While scanning, watch the converter's DATA light.
 - If the white light blinks rapidly three times, the reader is compatible.
 - If it does not blink rapidly, the reader is not compatible.
 - 6.** Scan the fob several times to confirm that the converter's light blinks as expected.
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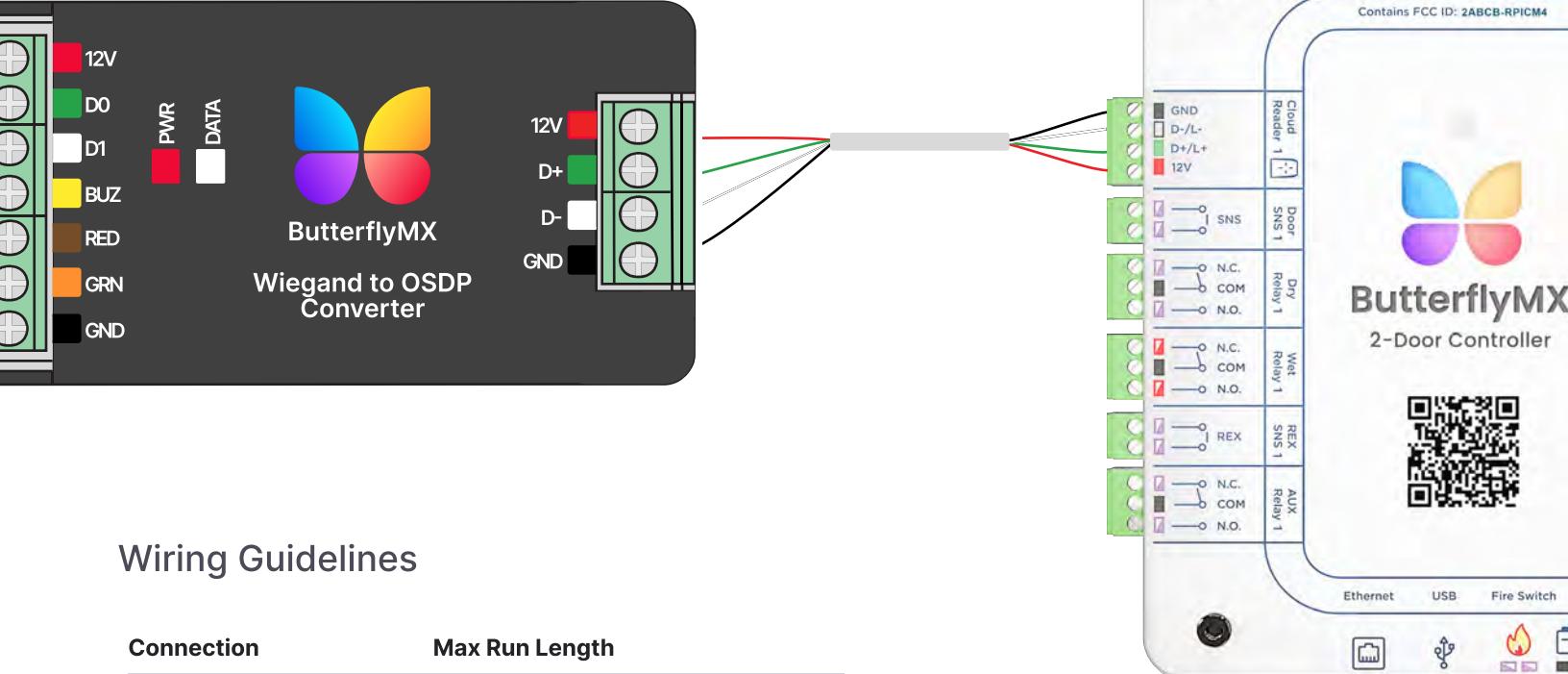
LED Lighting Overview

Name	Max Run Length	Connection
PWR	Solid red	Power on
DATA	Solid white	Connected to OSDP reader
	Constant pulsating white	Not receiving any reader data
	Blinking white 3 times	Successfully reading data from Wiegand reader

Installation

Step 2: Install Converter

1. Proceed with installation once confirming compatibility.
Order controllers from your ButterflyMX representative
2. For installation with the ButterflyMX 2-Door Access Controller, follow steps 1-6 on the previous page.
3. Be sure to connect the 12V, D+, D-, and GND wires to both the Wiegand to OSDP Converter and the 2-Door Controller.



Wiring Guidelines

Connection	Max Run Length
Converter to Controller	800 ft with shielded twisted pair
Reader to Converter	Subject to environmental conditions and wire gauge.

Credentials

Step 3: Enroll Credentials

All fobs must be added to the ButterflyMX OS to enable proper door access.

1. Confirm Wiegand format.

Wiegand 26-bit is the default format for uploading credentials. If a different format is required, contact SolutionsArchitecture@ButterflyMX.com with the credential number and facility code of the desired fob or tag.

2. Call ButterflyMX Support while on-site to verify the data format.

After the ButterflyMX reader is installed and provisioned, scan a fob and share the expected credential format details with Support. They will confirm that the format appearing in the ButterflyMX OS matches the expected format of the fob.

3. Enroll Credentials in the ButterflyMX OS.

Credentials can be added by scanning the fob on the reader, entering the fob IDs, or uploading in bulk. To upload credentials in bulk, contact SolutionsArchitecture@ButterflyMX.com.

ATTENTION

All systems must be activated once installation is complete and while the installer is on-site.

Activation will verify all systems are operational, document installed hardware, and activate the system. Activation is done by calling ButterflyMX Support while the installer is on-site at (800) 398-4416, ext 2.

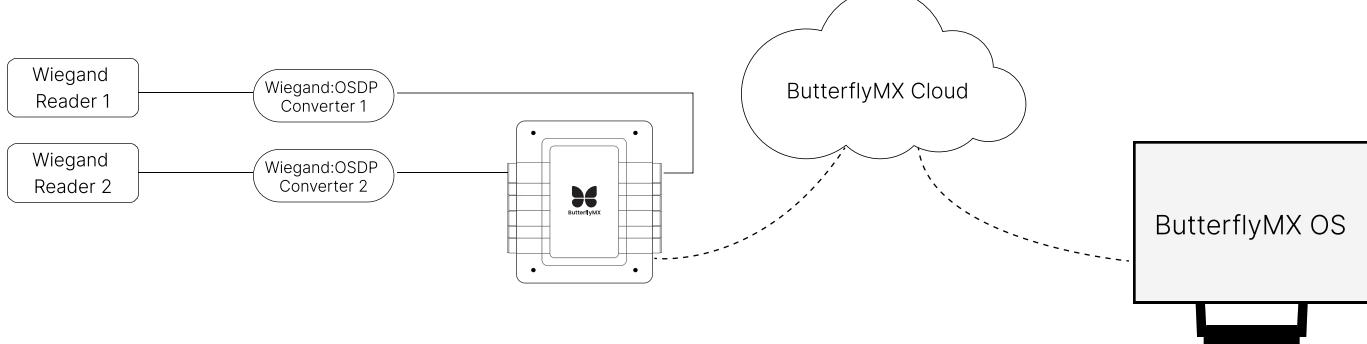
Wiegand-to-OSDP Converter

2-Door Access Controller Accessory

At ButterflyMX, we're trying to make installing access control as simple as possible for *all* buildings.

The **ButterflyMX Wiegand-to-OSDP Converter** serves as a link and translator between existing Wiegand vehicle and door readers to the ButterflyMX Access Controller - supporting buildings that are unable to change their existing vehicle and door readers but want to upgrade to use all that ButterflyMX's cloud-based access platform has to offer, including swipe-to-open and a consolidated building-wide audit log.

System Overview



- Improve operational efficiency and simplify installation by connecting existing Wiegand readers to the ButterflyMX Access Platform without needing a full system replacement.
- The converter is designed for the ButterflyMX 2-Door Access Controller and is compatible with any Wiegand vehicle or door reader.
- Allows Wiegand readers to communicate with the OSDP-based 2-Door Access Controller by converting Wiegand protocol to OSDP.
- Enables swipe-to-open and ButterflyMX PIN code functionality on Wiegand readers.

- One converter per Wiegand reader required.
- MSRP: \$49
- Dimensions: 3.2in (81mm) x 1.6in (41mm) x 0.75in (19mm)
- Weight: 2.5oz (70g)
- ButterflyMX 2-year warranty included.
- Supports Wiegand 26-bit credentials by default.
- Compatibility testing is required prior to installation.

While most key fobs and vehicle tags are compatible with the ButterflyMX Access Platform, final compatibility should be confirmed. For compatibility questions, reach out to SolutionsArchitecture@ButterflyMX.com.