

F3D100 All-in-one Access Control Device

Installation Prerequisite

Installation to be performed only by certified installer

Power Sourcing Requirement: PoE+ (802.3at Type 2) 30W

Unit to be powered by UL294B certified IEEE PoE+ 802.3at Type 2 Power Sourcing Equipment using unshielded cat5e or better cable with a maximum cable length of 330 feet (100 meters)

A ULC 60839-11-1 Listed power supply with appropriate grade is required to be provided for ULC installations

Wiegand/OSDP Badge Reader max cable length: 5 ft - 22 AWG (1.5 m)

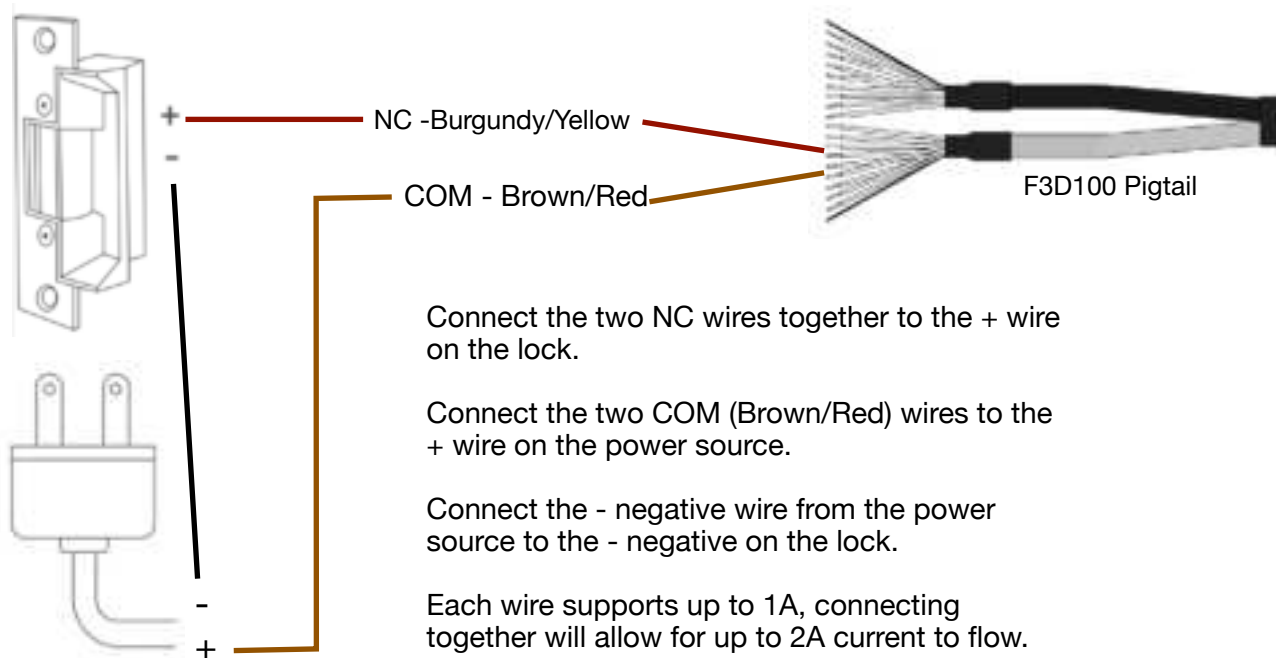
Wiegand Panel max cable length: 500 ft - 22 AWG (152 m), 300 ft - 24 AWG (91 m)

OSDP Panel max cable length: 4000 ft - 24 AWG (1,219 m),

Connect Directly to an Electric Lock

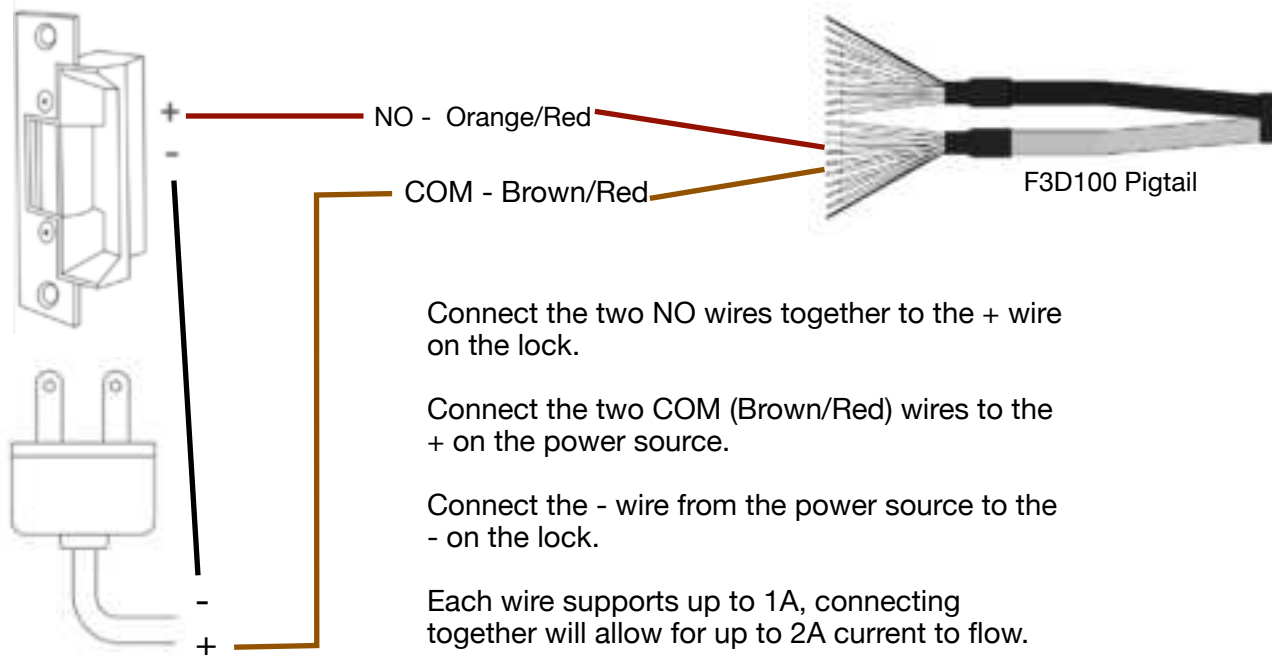
Fail Safe Lock

There is normally a current flowing through the relay on the Fail Safe lock. When the relay is activated, the current flow is blocked, and the door lock will open. If the power supply is cut off due to a power failure or an external factor, the door will remain open.



Fail Secure Lock

There is no current flowing through the relay on the Fail Secure lock. When the relay is activated, the current flow is opened, and the door lock will open. If the power supply is cut off due to a power failure or an external factor, the door will remain closed.



Connect Power over Ethernet Cable (PoE)

The F3D100 uses 802.3at (PoE+).

Connect a Cat5/6 ethernet cable to the RJ45 located on the pigtail of the F3D100.

To setup network connection use the Alocity setup app.

Wiegand Input/Output Wiring Diagram

Wiegand	
Output Wiegand 0	Green / Black
Output Wiegand 1	Orange / Black
Input Wiegand 0	Burgundy / Blue
Input Wiegand 1	Brown / White
Ground	Black

OSDP Wiring Diagram

OSDP / RS485	
RS485 A	Orange / White
RS485B	Green / White
Ground	Black

Input for Exit button & Door Contact Sensor Wiring Diagram

Inputs	
Input 1	Green / Yellow
Input 2	White
Ground	Brown / Yellow

Max number of face/templates enrolled shall not exceed 10,000

Ethernet/PoE+ and Wiegand Cable to Reader and Panel are Class II/Power Limited

Equipment not intended for connection to telephone, or outside wiring as covered by Article 800 in the National Electrical Code, NFPA 70

FCC

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION: Any changes or modifications to this device not explicitly approved by the manufacturer could void your authority to operate this equipment.

ATTENTION: Tout changement ou toute modification apportés à cet appareil sans l'approbation expresse du fabricant risque d'invalider l'autorisation relative à son utilisation.

CE Marking

Alcatraz AI hereby declares that these facial authentication devices are in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.



HD Video/Image Sensor

People Counting & Tracking

Quad Core AI Vision & Image Processor

Contactless Card, NFC and QR Code Reader

Advanced Motion & Sound Detection

3D Depth Sensing Laser

Accepts Mobile Credentials By Bluetooth5

Intercom HD Video & Two-Way Talk

Communication Interface

Ethernet
PoE
Wiegand IN/OUT
OSDP/RS485
TTL Input
Relay

Dimensions

Height: 6.80 inches
Width: 2.70 inches
Depth: 1.50 inches

Operating Temperature

-20°C - 50°C / -4°F - 122°F

Compliance

FCC, CE, ICESF

Authentication Methods

3D Face Recognition with Liveness Detection

NFC/Mifare Contactless Card

Mobile Credentials

Smart Card Technology

High Frequency 13.56 Mhz Mifare, NFC
ISO 14442 A/B, ISO 18092 Compliant

Memory & Processor

Quad-core Arm® Cortex®-A53 up to 1 GHz

Image Signal Processor

Computer Vision processor for Deep Learning