

NICE X-FAB2024

Nice X-FAB XFAB2024 24V DC Irreversible Electromechanical Gear Motor for Swing Gates User Manual

Model: X-FAB2024 | Brand: NICE

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the Nice X-FAB XFAB2024 electromechanical gear motor. Designed for swing gates up to 2.3 meters, this 24V DC irreversible motor is suitable for intensive use. It features a compact, flush-mounted design with a durable, corrosion-resistant alloy steel construction.

2. SAFETY INFORMATION

Important Safety Instructions: Read and follow all instructions carefully. Incorrect installation or use can cause serious injury or damage. Keep this manual for future reference.

- Installation must be performed by qualified personnel in compliance with local regulations.
- Disconnect power before any installation, maintenance, or repair work.
- Ensure the gate structure is sound and balanced before installing the motor.
- Do not allow children to play with or near the gate.
- Keep hands and clothing clear of moving parts.
- Regularly check the system for signs of wear or damage.

3. SETUP AND INSTALLATION

The X-FAB2024 motor is designed for flush mounting, offering a discreet installation. The self-supporting foundation box allows for flexible installation timing.

3.1 Foundation Box Installation

The compact foundation box has a height of 81 mm and is constructed from 2.5 mm thick alloy steel with an anti-corrosion cathodolysis finish. It is designed to protrude only 52 mm from the ground.

1. Prepare the excavation for the foundation box, ensuring proper drainage.
2. Position the self-supporting foundation box, ensuring it is level and correctly aligned with the gate's pivot point.

3. Secure the box in place using appropriate fasteners or concrete.
4. Install the adjustable mechanical stops for both opening and closing positions within the foundation box.

3.2 Motor Installation

The motor is suspended inside the foundation box, which aids in draining deposits and ensures water resistance.

1. Carefully place the X-FAB2024 motor into the foundation box.
2. Connect the motor's output lever directly to the gate for quick and practical installation.
3. Ensure all electrical connections are made according to the wiring diagram (refer to the separate wiring diagram provided with the product). The motor operates on 24 Volts DC.
4. The motor is compatible with the [Moonclever MC424L control unit](#) and the [Solemyo system](#).



Figure 1: Overhead view of the Nice X-FAB XFAB2024 gear motor, showing its robust metal casing, internal components, and electrical wiring. The motor is designed for flush mounting.

4. OPERATING INSTRUCTIONS

The X-FAB2024 operates in an ON-OFF mode and is typically controlled via a push button or compatible control unit.

4.1 Normal Operation

- Press the designated control button to initiate the gate's opening or closing cycle.
- The motor will move the gate to its fully open or closed position, stopping automatically at the set mechanical limits.
- A second press during operation may stop the gate or reverse its direction, depending on the control unit's programming.

4.2 Manual Release

In case of power failure or malfunction, the gate can be operated manually using the convenient internal and external release mechanism.

1. Locate the manual release mechanism on the gear motor.
2. Insert the provided key into the lock and turn it to disengage the motor.
3. The gate can now be moved manually.
4. To re-engage the motor, reverse the key operation and ensure the gate is fully closed or open before attempting automatic operation.

5. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your X-FAB2024 motor. Always disconnect power before performing any maintenance.

- **Monthly:** Check for any obstructions around the gate's path. Inspect the mechanical stops for proper adjustment and wear.
- **Quarterly:** Clean the motor housing and foundation box to prevent accumulation of dirt and debris. Check electrical connections for tightness and signs of corrosion.
- **Annually:** Have a qualified technician inspect the entire system, including the motor, gate hinges, and control unit, for optimal performance and safety.

6. TROUBLESHOOTING

If you encounter issues with your X-FAB2024 motor, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Motor does not respond to commands.	No power, faulty control unit, remote control battery dead.	Check power supply. Inspect control unit. Replace remote control batteries.
Gate stops unexpectedly during operation.	Obstruction detected, safety sensor triggered, motor overheating.	Remove obstructions. Check safety sensors. Allow motor to cool down.
Gate operates slowly or with difficulty.	Mechanical friction, low voltage, worn components.	Lubricate gate hinges. Check power supply. Contact support for inspection.

If the problem persists after attempting these solutions, please contact qualified technical support.

7. SPECIFICATIONS

Model Number	X-FAB2024 (also known as S-FAB2024)
Brand	NICE
Motor Type	Electromechanical, Irreversible
Operating Voltage	24 Volts DC
Max Gate Length	Up to 2.3 meters (per leaf)
Mounting Type	Flush mounting (underground)
Foundation Box Height	81 mm
Ground Protrusion	52 mm
Opening Angle	Up to 180° (standard)

Material	Alloy Steel with anti-corrosion cataphoresis finish
Operating Mode	ON-OFF
Control Method	Push button
Compatible Control Unit	Moonclever MC424L
Compatible System	Solemyo

8. WARRANTY INFORMATION

Specific warranty details for the Nice X-FAB XFAB2024 motor are typically provided at the point of purchase or within the product packaging. Please retain your proof of purchase for warranty claims.

Information regarding the availability of spare parts for this model is currently unavailable through standard product listings. For spare parts inquiries, please contact your authorized Nice dealer or support channel.

9. SUPPORT AND CONTACT

For technical assistance, troubleshooting beyond this manual, or to inquire about service and spare parts, please contact your authorized Nice dealer or visit the official Nice website for support resources.

Manufacturer: NICE