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> NICE HY7124 Folio Gate Motor User Manual

NICE HY7124

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Comprehensive instructions for installation, operation, and maintenance.

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the NICE HY7124 Folio Gate Motor. Please read this manual carefully before beginning any installation or operation procedures to ensure proper functioning and safety. The NICE HY7124 is a 24VDC motor designed for automating swing gates, featuring a robust galvanized telescopic arm and magnetic encoder for precise control. It is ideal for intensive use applications.

2. SAFETY INFORMATION

Important Safety Instructions: Always follow these safety precautions to prevent injury or damage.

- Installation and wiring must be performed by qualified personnel in accordance with local electrical codes and regulations.
- Disconnect power before performing any maintenance or service.
- Do not allow children to play near the gate or operate the controls.
- Ensure all safety devices (e.g., photocells, safety edges) are correctly installed and functioning.
- Keep hands and clothing clear of the gate and moving parts.
- In case of malfunction, disconnect power and contact a qualified technician.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before proceeding with installation.

- NICE HY7124 Gate Motor unit
- Mounting brackets and hardware
- Release key for manual operation
- Instruction Manual (this document)
- *Note: Control unit (e.g., Moonclever MC824H), remote controls, and safety accessories are typically sold separately.*



Figure 1: The NICE HY7124 Folio Gate Motor. This image shows the main motor unit, which is designed for swing gate automation.

4. SETUP AND INSTALLATION

Installation should only be performed by qualified technicians. Ensure all power is disconnected before starting.

4.1. Pre-installation Checks

- Verify the gate structure is sound and moves freely without friction.
- Ensure adequate space for the motor and its telescopic arm.
- Confirm power supply (24VDC) is available at the installation site.

4.2. Mounting the Motor

1. Attach the rear mounting bracket to the gate pillar using appropriate fasteners.
2. Mount the motor unit onto the rear bracket.
3. Extend the telescopic arm and attach the front mounting bracket to the gate leaf. Ensure proper alignment and level.
4. Secure all mounting points firmly.

4.3. Electrical Connections

Connect the motor to a compatible control unit, such as the Moonclever MC824H. Refer to the control unit's manual for specific wiring diagrams.

- Connect the motor power cables to the designated terminals on the control unit.
- Connect the magnetic encoder cables to the control unit.
- Install and connect all safety devices (photocells, safety edges 8.2 KOhm) to the control unit.
- Ensure all connections are secure and insulated.

5. OPERATING INSTRUCTIONS

The NICE HY7124 motor operates in conjunction with a control unit (e.g., Moonclever MC824H).

5.1. Initial Programming (with Moonclever MC824H)

1. Power on the control unit.
2. Perform the auto-learning procedure for the limit switches (opening and closing) as described in the MC824H manual. This typically involves pressing a single button.
3. The control unit will automatically detect anomalies and program the pause time.
4. Adjust deceleration settings for opening and closing as needed.
5. Test obstacle detection with double technology sensors.

5.2. Normal Operation

- Use a compatible remote control or wall switch to activate the gate.
- The gate will open or close smoothly with deceleration at the end of travel.
- Obstacle detection will stop or reverse the gate if an obstruction is encountered.

5.3. Pedestrian Opening

The control unit supports a pedestrian opening function, allowing one gate leaf to open partially for foot traffic. Refer to the MC824H manual for activation.

5.4. Manual Release

In case of power failure or malfunction, the gate can be operated manually.

1. Locate the manual release mechanism on the motor unit.
2. Insert the provided release key and turn it to disengage the motor.
3. Manually push the gate open or closed.
4. To re-engage, turn the key back to its original position and close the gate until it locks into place.

Optional: The system can operate in the absence of power with optional rechargeable batteries (PS324) connected to the control unit.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your gate motor.

6.1. Monthly Checks

- Inspect the gate for any signs of wear, damage, or obstruction.
- Check the mounting bolts and connections for tightness.
- Clean photocell lenses to ensure proper function.
- Test the obstacle detection system by placing an object in the gate's path.

6.2. Annual Servicing

It is recommended to have a qualified technician perform an annual service, including:

- Lubrication of moving parts (if applicable, refer to specific motor guidelines).
- Thorough inspection of electrical connections and wiring.
- Verification of all safety features.
- Adjustment of gate travel and force settings.

7. TROUBLESHOOTING

Before contacting technical support, review the following common issues and solutions.

Problem	Possible Cause	Solution
Gate does not respond to remote.	No power; remote battery low; remote not programmed; safety device activated.	Check power supply; replace remote battery; reprogram remote; check photocells/safety edges for obstructions.
Gate opens partially or stops unexpectedly.	Obstruction detected; limit switch issue; motor overload.	Remove obstruction; check limit switch settings; allow motor to cool down.
Gate operates slowly or with difficulty.	Friction in gate hinges/rollers; low voltage; motor wear.	Lubricate gate hinges; check power supply; contact technician for motor inspection.
Control unit displays error code.	Specific system fault.	Refer to the Moonclever MC824H control unit manual for error code definitions and solutions.

8. SPECIFICATIONS

Technical specifications for the NICE HY7124 Folio Gate Motor.

- **Model:** HY7124
- **Brand:** NICE
- **Power Supply:** 24 VDC
- **Control Unit Compatibility:** Moonclever MC824H (recommended)
- **Limit Switches:** Double limit switches (opening and closing)
- **Encoder:** Magnetic encoder
- **Arm Type:** Robust galvanized telescopic arm
- **Weight:** Approximately 13 kg (28.66 lbs)
- **Usage:** Intensive use
- **Safety Edge Compatibility:** 8.2 KOhm resistive safety edges
- **Optional Accessories:** PS324 rechargeable batteries for power failure operation

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase or contact your authorized NICE dealer.

For technical support, spare parts, or service, please contact your installer or an authorized NICE service center. Provide your product model number (HY7124) and a detailed description of the issue.

ASK A QUESTION ABOUT THIS MANUAL

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