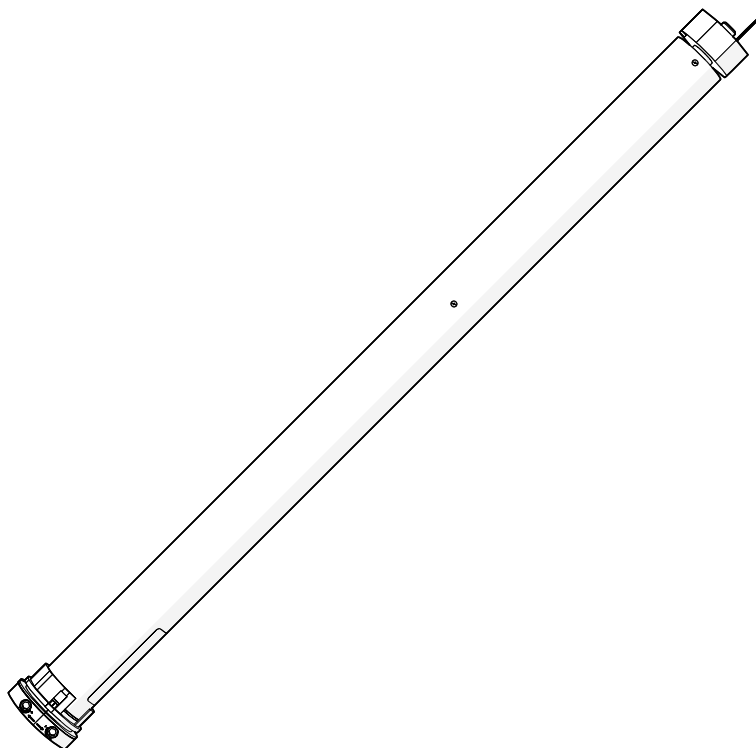




Forest[®] BMS Tubular Motor

35mm (for Atlantis[®] & BCS[®])

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INTRODUCTION

- 3** Thank you for choosing the Forest® BMS Tubular 35mm tubular motor!
- 4** The Forest® BMS Tubular 35mm motor is a tubular motor for use with the Forest® Roman Blind System (BCS®) and the Forest® Roller Blind System (Atlantis®).

1. General

Read this manual and the safety instructions carefully before using this Forest Group product. Follow the instructions in this manual and keep it throughout the entire lifespan of the product. This manual describes the installation and operation of the Forest® BMS Tubular 35mm motor.

Any use beyond the application scope defined by Forest Group is not permitted. Ignoring the instructions in this manual voids any liability and warranty from Forest Group.

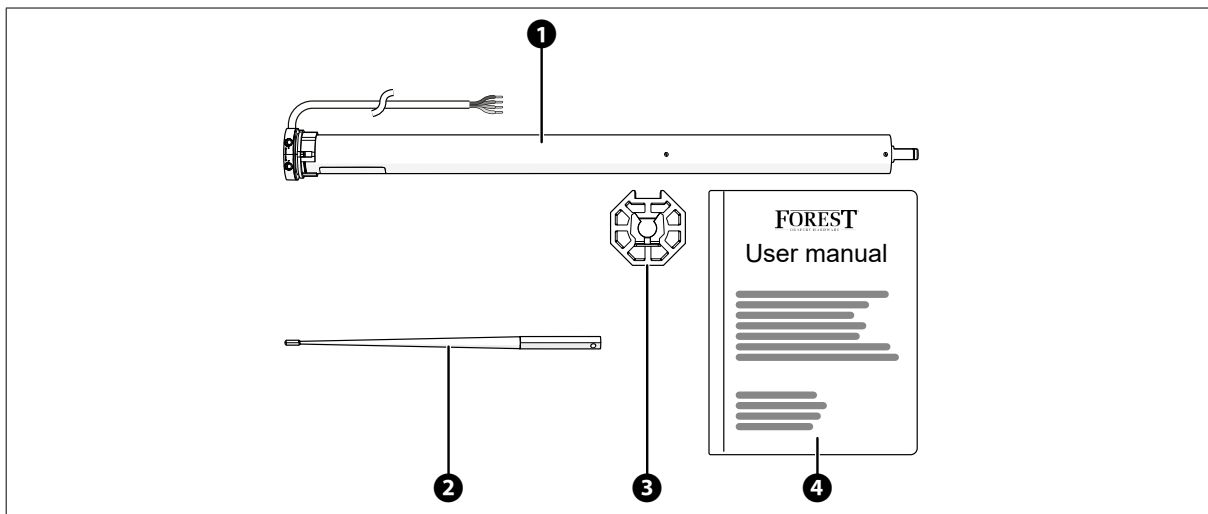
The Forest® BMS Tubular 35mm motor comes with a 5-year warranty.

1.1 SPECIFICATIONS

Model	3416760012
Specification	Value
Voltage	230 V AC
Maximum power	50/60 Hz – 146 W
Maximum current	0.64 A
Torque	6 Nm
Speed	28 RPM
Limit switch	Mechanical
Maximum run time	4 minutes
Length	50 cm
Diameter	35 mm
Protection rating	IP44
Operating noise level	37 dBA (measured according to ISO3745)
Operating temperatures	-10 – 50 °C
Weight load BCS	11 kg
Weight load Atlantis 50 mm	12 kg
Weight load Atlantis 60 mm	10 kg

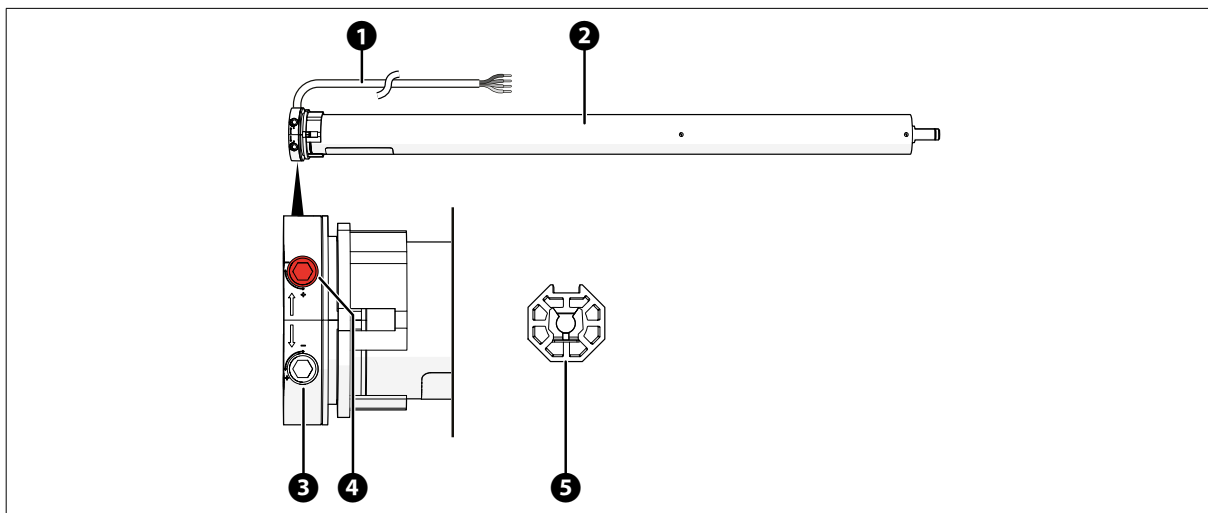
2. Product overview

2.1 CONTENTS



- ❶ 1× BMS Tubular Motor
- ❷ 1× Adjustment key
- ❸ 1× Crown and drive adapter for BCS system
- ❹ 1× User manual

2.2 MAIN PARTS



- ❶ Power cable
- ❷ Tubular motor
- ❸ White adjustment screw
- ❹ Red adjustment screw
- ❺ Crown and drive adapter for BCS system

3. Safety

3.1 INTENDED USE

- This product is intended as a tubular motor for the Forest Roman Blind System (BCS) and the Forest Roller Blind System (Atlantis).
- This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the product by a person responsible for their safety.
- This product is only intended for indoor use.

3.2 SAFETY INSTRUCTIONS

WARNING

- Always read and understand this manual and keep this document close to the product at all times. Go to www.forestgroup.com for the online version of the extended user manual.
- This tubular motor is intended to be assembled and integrated into the roller or roman blind system exclusively by a professional installer from a Forest Group dealer. Assembly by unqualified personnel is not permitted. Improper assembly or installation may result in malfunction, reduced performance, or a non-operational product. Forest Group cannot be held responsible for systems that have not been assembled in accordance with these requirements.
- The motor must be installed by a qualified electrician.
- Children should not be near the installation site during installation.
- Children should be supervised to ensure that they do not play with the product.
- Never use the product with a damaged power cable.
- Do not operate the motor continuously for more than 4 minutes. Allow it to cool before using again.
- Only use a power supply rated at 230 V AC. Always verify the power source before installation.

CAUTION

- Do not expose the product to high temperatures or place it in direct sunlight.
- This product is for indoor use only, do not use in outdoor or in humid environments, such as bathrooms or swimming pools.
- Do not carry the product by the power cable.

NOTICE

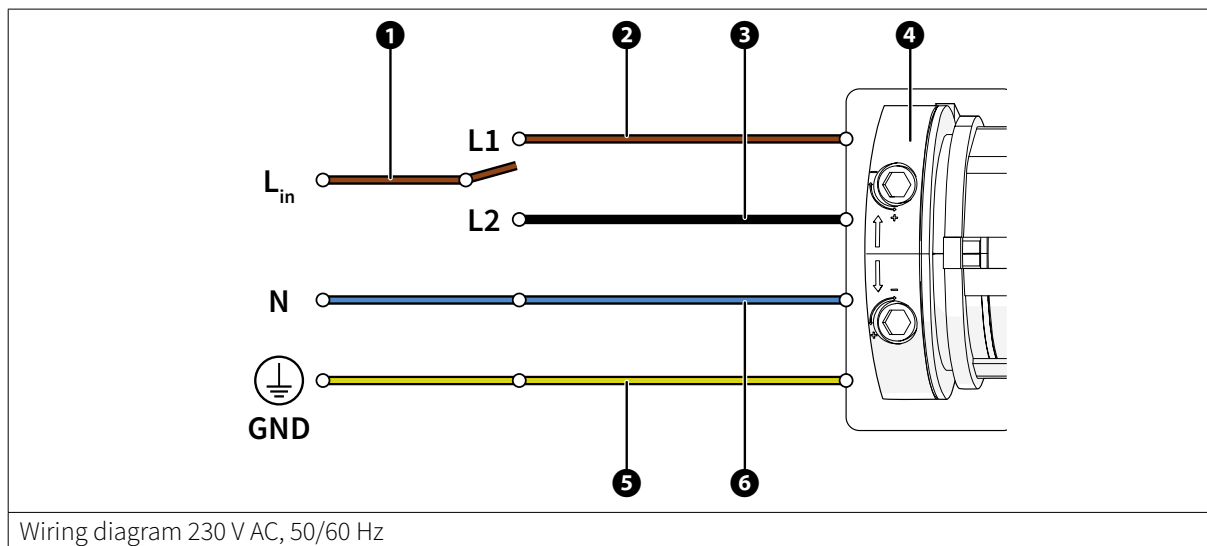
- Never immerse the product in liquid.
- Do not drop the product, drill holes in it, or disassemble it, as this will void the warranty.
- Do not connect two motors in parallel to a single switch.
- Do not connect one motor to more than one switch or external receiver at the same time.
- Setting the open position too high can cause the motor or the fabric to be damaged. Always set the open position according to the manufacturer's instructions. Never set the open position above the recommended limit.
- Setting the closed position too low can cause the fabric to roll in the reverse direction and result in damage. Always set the closed position according to the manufacturer's instructions. Never allow the fabric bottom profile to roll in the reverse direction.
- Allowing the fabric bottom profile to touch the tubular motor can cause mechanical damage to the motor or the fabric. Always ensure the fabric bottom profile does not touch the tubular motor.
- Allowing the snap cord fixers to touch the tubular motor can cause mechanical damage to the motor or the cord. Always position the snap cord fixers so they do not touch the tubular motor.
- Using a battery-powered or electric screwdriver may damage the adjustment screws and damage the curtain motor housing. Always adjust the adjustment screws manually with a hand tool. Never use a battery-powered or electric screwdriver.

4. Installation

4.1 CONTROL OPTIONS

The tubular motor can be controlled through a variety of control methods, including mechanical switches, or an actuator selected to match with the customer's home automation system. Ensure that the selected control device is installed as indicated in the following wiring diagram(s).

4.2 WIRING DIAGRAM



- ❶ Phase In (Lin)
- ❷ Phase L1 (Brown, direction 1)
- ❸ Phase L2 (Black, direction 2)
- ❹ Motor
- ❺ Ground GND (Yellow/green)
- ❻ Neutral N (Blue)

5. Use

5.1 PREPARATION

NOTICE

- Setting the open position too high can cause the motor or the fabric to be damaged. Always set the open position according to the manufacturer's instructions. Never set the open position above the recommended limit.
- Setting the closed position too low can cause the fabric to roll in the reverse direction and result in damage. Always set the closed position according to the manufacturer's instructions. Never allow the fabric bottom profile to roll in the reverse direction.
- Using an electric screwdriver can damage the adjustment screws. Always screw the adjustment screws manually with the included adjustment key.

BCS (ROMAN BLIND)

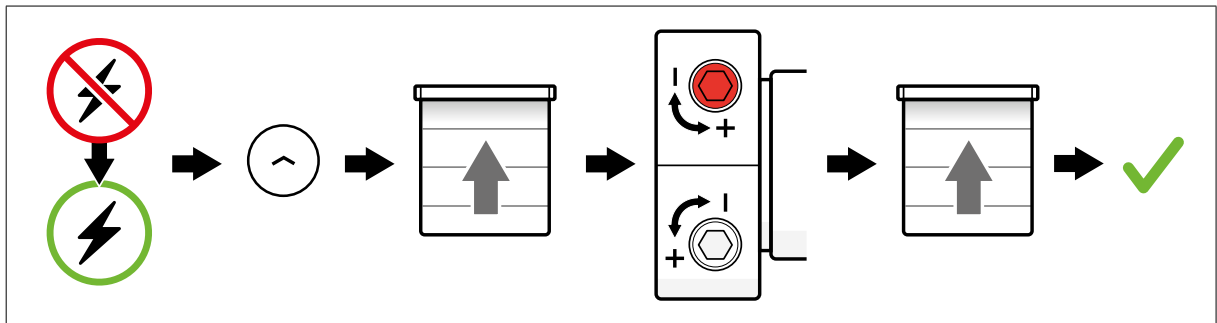
Do not attach the cords to the cord rolls yet when you set the limits.

1. Operate the motor in the downward direction.
2. The motor runs and stops at the closed position.

If the closed position is already set correctly, or set too high, the motor will not move.

3. Attach the fabric and cords to the cord rolls. And start the adjustment of the upper limit.

5.2 SETTING THE OPEN POSITION



1. Switch the **power on**.
2. Control the motor toward the **open** position with a Home Automation System or a Wired Wall Switch.
3. Observe the **tube roll direction**.

NOTICE

The tube roll direction determines which adjustment screw must be used to adjust the open position. Always check the tube roll direction before making adjustments.

Setting the open limit too high may cause damage to the motor, fabric, or system.

Always adjust in small steps and never use an electric screwdriver.

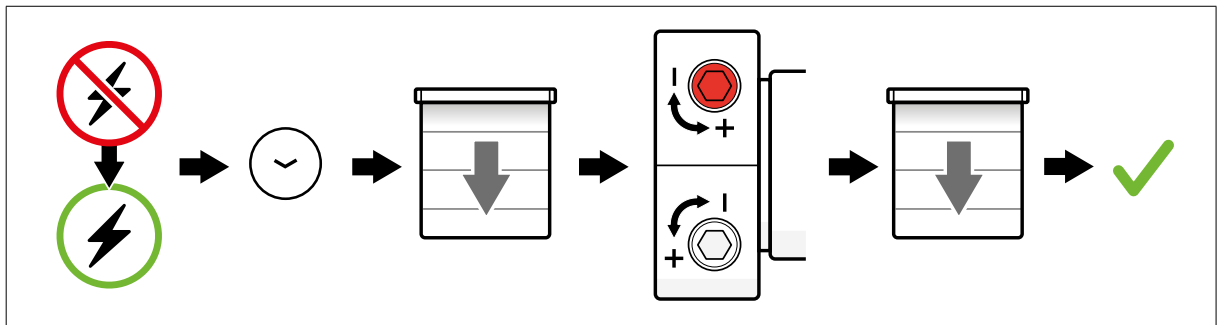
4. Use the adjustment screw to set the open position when the motor stops too early or does not stop automatically at the open position.

See the following table to check which **adjustment screw** to adjust:

Motor position	Tube roll direction (when opening)	Adjustment screw to use
Left	Towards the user	White adjustment screw
Left	Away from the user	Red adjustment screw
Right	Towards the user	White adjustment screw
Right	Away from the user	Red adjustment screw

- a. Rotate the relevant **adjustment screw** clockwise (- symbol) to set a lower open position.
 - b. Rotate the relevant **adjustment screw** anticlockwise (+ symbol) to set a higher open position.
 - c. Use the **switch** to close and open the blinds and check the new open position.
5. Repeat steps 2. – 4. until your desired open position is set.

5.3 SETTING THE CLOSED POSITION



1. Switch the **power on**.
2. Control the motor toward the **closed** position with a Home Automation System or a Wired Wall Switch.
3. Observe the **tube roll direction**.

NOTICE

The tube roll direction determines which adjustment screw must be used to adjust the closed position. Always check the tube roll direction before making adjustments.

Setting the closed limit too low may cause damage to the motor, fabric, or system.

Always adjust in small steps and never use an electric screwdriver.

4. Use the adjustment screw to set the closed position when the motor stops too early or does not stop automatically at the closed position.

See the following table to check which **adjustment screw** to adjust:

Motor position	Tube roll direction (when closing)	Adjustment screw to use
Left	Towards the user	White adjustment screw
Left	Away from the user	Red adjustment screw
Right	Towards the user	White adjustment screw
Right	Away from the user	Red adjustment screw

- a. Rotate the relevant **adjustment screw** anticlockwise (+ symbol) to set a lower close position.
 - b. Rotate the relevant **adjustment screw** clockwise (- symbol) to set a higher close position.
 - c. Use the **switch** to open and close the blinds and check the new close position.
5. Repeat steps 2. – 4. until your desired closed position is set.

6. Troubleshooting

Problem	Possible cause	Possible solution
The motor suddenly stops during operation.	The thermal protection is activated.	Wait for the motor to cool down. This can take up to 15 minutes. Never use the product continuously for more than 4 minutes.
	The fabric is too heavy.	Check to ensure the fabric does not exceed the maximum weight load.
	The timing of the home automation is incorrect.	Adjust the automation settings so the trigger fires at the correct moment, and verify that all time-based conditions are configured correctly.
The motor only operates in one direction.	The open / close positions are not set correctly.	Adjust the open / close position as seen in chapters 5.1 and 5.2.
The motor does not start or runs slowly.	The power supply and/or wiring connections are not correct.	Check the power supply and wiring connections.
The motor makes a strange noise when operating.	The crown or drive adapter is not suitable for the tube.	Check if the crown or drive adapter is suitable for the tube.
	The roller tube is too long.	Shorten the roller tube.
The motor rotates in the reverse direction.	The wiring polarity is reversed.	Check that the live, neutral and control wires are accorded to the wiring diagram as seen in chapter 4.2.
The motor does not run at all.	The wiring polarity is reversed.	Check that the live, neutral and control wires are accorded to the wiring diagram as seen in chapter 4.2.
	The thermal protection is activated.	Wait for the motor to cool down. This can take up to 15 minutes. Never use the product continuously for more than 4 minutes.
	The open / close positions are not set correctly.	Adjust the open / close position as seen in chapters 5.1 and 5.2.

7. Conformity



Forest Group (Netherlands) B.V. hereby declares that the product complies with the requirements of Directive 2014/53/EU.

8. Liability

Forest Group does not assume liability for resulting damages to persons, animals and/or property, defects, labour on location, service calls, reinstallation or expenses involved shipping, packing or returning goods, if the product has been modified in any way or damaged by improper use or failure to observe these operating instructions. In such situation, the right to any form of warranty, service and reimbursement of expenses shall cease.

9. Recycling



Do not dispose of the product with household waste. Ensure that you return it to a collection point or depot for recycling purposes.

10. Declaration of conformity



EU Declaration of Conformity

Hereby we, the undersigned:

Manufacturer: Forest Group Nederland B.V.
Address; city, Country: Teugseweg 42, 7418 AM Deventer, The Netherlands
Telephone number: +31 0570 622850

Declare that this DoC is issued under our sole responsibility and that this product:

Product description: Curtain Motor
Type designation(s): -
Model number: 3416760012
Trademark: Forest

Is in conformity with the relevant Union harmonization legislation:

☒	Low Voltage Directive – 2014/35/EU
	EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 + A15:2021 + A16:2023 EN IEC 60335-2-97 : 2023 + A11:2023 EN 62233:2008
☒	Electromagnetic Compatibility Directive - 2014/30/EU
	EN IEC 55014-1:2021 EN IEC 55014-2:2021 EN IEC 61000-3-2:2019+A1:2021+ A2:2024 EN 61000-3-3:2013+A1:2019+A2:2021
☒	RoHS Directive – 2011/65/EU + amendment (EU) 2015/863

Signed for and on behalf of:

Place: Deventer

Name: A.G. ten Have

Date: 22-06-2026

Function: Head R&D

Signature:

FOREST WORLDWIDE

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