Elero RolTop M10-868

Elero Roltop M-868 / -K Wireless Pipe Drive

INSTRUCTION MANUAL

1. Introduction and Product Overview

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Elero Roltop M-868 / -K wireless pipe drive. This device is designed for use with roller shutters, blinds, and screens, offering a robust and intelligent solution for automated window coverings.

The Roltop M-868 / -K features mechatronic end-position detection with soft-stop functionality, intelligent force measurement, and bidirectional radio communication at 868 MHz with an automatic routing function. It is designed for shafts from Ø 50 mm and comes with an adapter set for SW60 shafts.

Figure 1: Elero Roltop M-868 / -K Wireless Pipe Drive. This image shows the cylindrical motor unit with an orange and black end cap, and a power cable extending from it.

2. Safety Instructions

Please read all safety instructions carefully before installation and operation. Failure to follow these instructions may result in injury or damage to the product.

- **Electrical Safety:** Installation and electrical connections must be performed by a qualified electrician in accordance with local regulations. Disconnect power before any installation or maintenance work.
- **Moving Parts:** Keep hands, hair, and loose clothing away from moving parts during operation.
- **Children and Pets:** Keep children and pets away from the operating area of the roller shutter/blind. Do not allow them to play with the controls.
- **Environmental Conditions:** Do not expose the drive to extreme temperatures, moisture, or corrosive substances.

- **Intended Use:** Use the drive only for its intended purpose as described in this manual.

3. Product Features

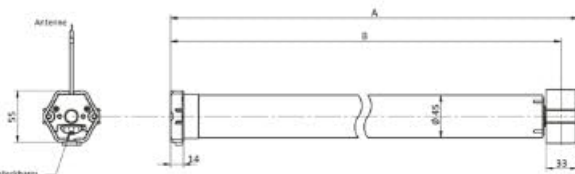The Elero Roltop M-868 / -K offers a range of advanced features:

- **Application:** Pipe drive specifically designed for roller shutters, blinds, and screens.
- **End Position Detection:** Mechatronic end-position detection with soft-stop functionality.
- **Quiet Operation:** Silent soft brake up to 20 Nm.
- **Intelligent Force Measurement:** Ensures smooth and safe operation.
- **Fabric Protection:** Features fabric protection for both up and down movements, and free travel.
- **End Position Relief:** Can be activated at the end position.
- **Adjustable End Positions:** End positions can be set via mounting cable or handheld transmitter.
- **Shaft Size Compatibility:** Suitable for shafts from Ø 50 mm. Supplied with an adapter set for SW60 shafts.
- **Radio Communication:** Bidirectional 868 MHz radio with automatic routing function.
- **Connection:** Includes a 2.0-meter plug-in connection cable.

4. Setup and Installation

Installation should be carried out by a qualified professional. Ensure all safety precautions are followed.

1. **Preparation:** Ensure the power supply to the installation area is disconnected. Verify the shaft size is compatible (Ø 50 mm or use the provided SW60 adapter).
2. **Mounting:** Insert the pipe drive into the roller shutter shaft. Secure it according to the specific roller shutter system's requirements. The drive is supplied without motor bearings, which must be provided by the installer.
3. **Electrical Connection:** Connect the 2.0-meter plug-in cable to the power supply according to the wiring diagram provided with the product packaging. Ensure correct polarity and grounding.
4. **End Position Setting:** Once physically installed and powered, set the upper and lower end positions using either the mounting cable or a compatible handheld transmitter. Refer to the specific instructions for your Elero control unit for detailed programming steps.
5. **Testing:** Perform several test runs to ensure the drive operates smoothly and stops correctly at the set end positions. Check for any unusual noises or movements.

Technische Daten und Maße

Baugröße/ Typ	RolTop M7/23-868	RolTop M10-868	RolTop M12/23-868	RolTop M20-868	RolTop M30-868	RolTop M40-868	RolTop M50-868
Bemessungs-Spannung (V)	1 ~ 230						
Bemessungs-Frequenz (Hz)	50						
Geräuschlose Softbremse			•			—	
Bemessungs-Drehmoment (Nm)	7	10	12	20	30	40	50
Bemessungs-Drehzahl (Upm)	23	14	23	14			
Bemessungs-Strom (A)	0,6			0,9		1,2	1,3
Bemessungs-Aufnahme (W)	140			200		270	300
Wellendurchmesser (mm)	50						
Schutzgrad (IP)	44						
Endschalterbereich (Umdreh.)	40						
Betriebsdauer (min S2)	5			4		5	4
Länge A (mm)	480		530	540	530	540	560
Länge B (mm)	462		513	523	512	522	542
Gewicht (kg)	1,9		2,2		2,3	2,6	3,1
Betriebsumgebungstemperatur (°C)	-20 bis +60						
Konformität	CE ◬ ⚖						

Figure 2: Technical data and dimensions for Elero Roltop M-series drives. This image displays a table with various models (M7/23-868, M10-868, M12/23-868, M20-868, M30-868, M40-868, M50-868) and their specifications such as rated voltage, frequency, torque, speed, current, power, shaft diameter, IP rating, end switch range, operating duration, length, weight, and operating temperature. Below the table, a schematic diagram shows the dimensions of the motor.

5. Operating Instructions

The Elero Roltop M-868 / -K is operated via a compatible Elero handheld transmitter or wall switch (not included). The bidirectional 868 MHz radio system ensures reliable communication.

- **Basic Operation:** Use the UP/DOWN buttons on your Elero control unit to move the roller shutter/blind. A STOP button is typically available to halt movement at any desired position.
- **Automatic Routing:** The integrated automatic routing function enhances signal reliability within your Elero radio network.
- **Programming Additional Functions:** Refer to the manual of your specific Elero control unit for instructions on programming intermediate positions, timer functions, or integrating into smart home systems.

6. Maintenance

The Elero Roltop M-868 / -K is designed for long-term, maintenance-free operation. However, regular checks can help ensure optimal performance.

- **Cleaning:** Keep the visible parts of the drive and the roller shutter/blind clean. Use a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically check the roller shutter/blind for any obstructions, damage to the fabric, or unusual noises during operation.
- **Professional Service:** If you notice any significant issues or malfunctions, contact a qualified service technician. Do not attempt to open or repair the drive yourself.

7. Troubleshooting

If you encounter problems with your Elero Roltop M-868 / -K, consider the following common issues:

- **Drive Not Responding:**

- Check if the power supply is connected and active.
- Ensure the control unit (handheld transmitter/wall switch) has working batteries or power.
- Verify the control unit is correctly paired with the drive. Refer to your control unit's manual for pairing instructions.

- **Incorrect End Positions:**

  - The end positions may need to be re-programmed. Follow the end position setting procedure in your control unit's manual.

- **Unusual Noises During Operation:**

  - Check for any obstructions in the roller shutter/blind path.
  - Ensure the shaft and mounting components are securely fastened.
  - If the noise persists, contact a qualified technician.

- **Intermittent Operation:**

  - This could indicate signal interference. Ensure the control unit is within range and there are no major obstacles.
  - Check for other devices operating on similar frequencies.

For issues not covered here, please contact Elero customer support or a certified service partner.

8. Specifications

Key technical specifications for the Elero Roltop M-series pipe drives:

Specification	Value (RolTop M10-868)
Manufacturer	Elero
Model Size	RolTop M10-868
Rated Voltage	1~230 V
Rated Frequency	50 Hz
Rated Torque	10 Nm
Rated Speed	14 rpm
Rated Current	0.6 A
Rated Power	140 W
Shaft Diameter Compatibility	From Ø 50 mm (adapter for SW60 included)
Protection Class (IP)	44
End Switch Range	4
Operating Duration	52 min
Operating Temperature Range	-20 to +60 °C

Specification	Value (RolTop M10-868)
Length A	480 mm
Length B	462 mm
Weight	1.9 kg
First Available Date	January 15, 2020
ASIN	B00EVUF0BY

Note: Specific values for other models (M7/23-868, M12/23-868, M20-868, M30-868, M40-868, M50-868) can be found in Figure 2.
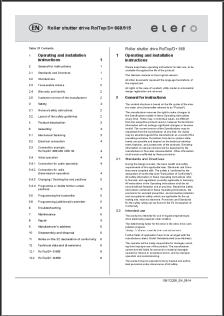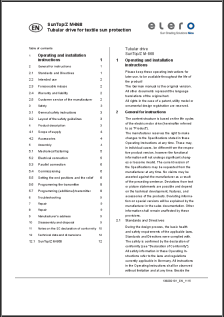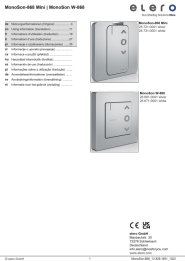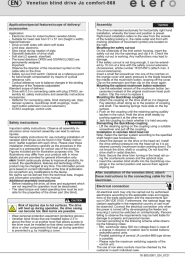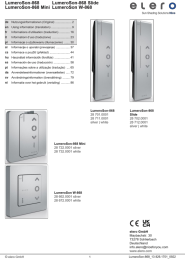
9. Warranty and Support

For warranty information, please refer to the documentation provided with your purchase or contact your retailer. Elero products typically come with a manufacturer's warranty covering defects in materials and workmanship.

For technical support, spare parts, or service inquiries, please contact your authorized Elero dealer or visit the official Elero website for contact information. When contacting support, please have your product model (RolTop M10-868) and serial number (if applicable) ready.

Related Documents - RolTop M10-868

	[elero RolTop/D+ 868/915 Tubular Motor Drive: Operating & Installation Guide](#) Official operating and installation guide for the elero RolTop/D+ 868/915 radio-controlled tubular motor drive. Covers safety, assembly, electrical setup, programming, troubleshooting, and technical specifications for roller shutter automation.
	[elero SunTop/Z M-868 Tubular Drive: Operating and Installation Manual](#) Comprehensive operating and installation instructions for the elero SunTop/Z M-868 tubular drive, designed for textile sun protection systems. Includes safety guidelines, product description, assembly, commissioning, troubleshooting, and technical data.

[elero MonoSon-868 Mini & W-868 Radio Transmitter User Manual](#)

Comprehensive user manual for the elero MonoSon-868 Mini and MonoSon W-868 bidirectional radio transmitters. Covers product description, safety instructions, intended use, scope of delivery, functional features, cleaning, conformity, service information, control elements, programming modes (asynchronous, synchronous), deleting connections, battery replacement, disposal, technical data, troubleshooting, and controlling roller shutters/sun protection systems.

[elero JA comfort-868 Venetian Blind Drive Operating Instructions](#)

Comprehensive operating instructions for the elero JA comfort-868 Venetian blind drive, covering application, safety, assembly, electrical connection, radio modes, end position setting, and technical specifications.

[elero LumeroSon-868 Series Radio Transmitter User Manual](#)

Comprehensive user manual for the elero LumeroSon-868, LumeroSon-868 Slide, LumeroSon-868 Mini, and LumeroSon W-868 radio transmitters. Covers product description, safety instructions, functional features, programming, troubleshooting, technical data, and system control.

[elero Solar-Bundle DC and /D+ DC Assembly Instructions](#)

Assembly and installation guide for elero's Solar-Bundle DC and /D+ DC systems, detailing components, safety precautions, technical specifications, operating modes, and tips for optimizing solar performance for automated roller shutters and blinds.