



**230 V Radio Motors
with integrated voltage transformer**

EYA – LE Series

Compatible with:

- **Remote Controllers SI1602, SI1605**
- **Sun Sensor SI1187**



1. General safety guidelines



Notes on the product

- Make sure you have received the correct drive. Compare the voltage and frequency details on the nameplate with those of the mains supply.
- Check that the drive is undamaged. Do not use the product if you discover any damage. In this case, contact the point of sale.
- Only use the drive to open and close suitable hangings.
- Read this manual completely before starting the installation.
- Make sure that the fabric shaft in which you intend to use the tubular motor is undamaged.
- Check that the curtain can be opened and closed smoothly.
- Replace damaged parts if you find defects.



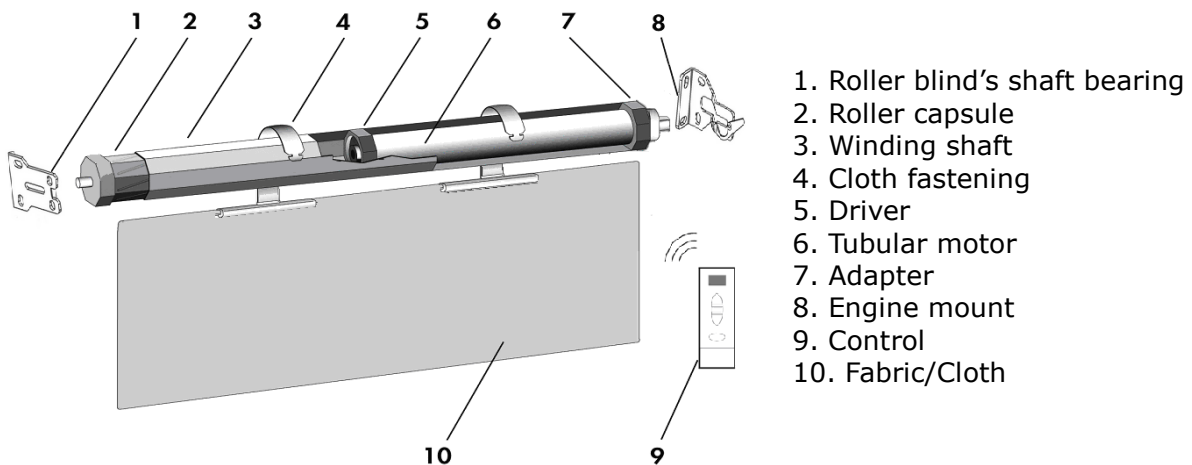
- Inform all persons in safe use of the controls and the drive.
- Observe the blind during operation and keep people away until the blind is fully opened or closed.
- Do not let children play with the control unit.

2. Installation of the tubular motor



- Do not hit the motor with hard objects – not even to push it into the winding shaft. This can cause damage to the drive and roller blind's shaft.
- Avoid installing the tubular motor in damp places or places where it comes into contact with water.

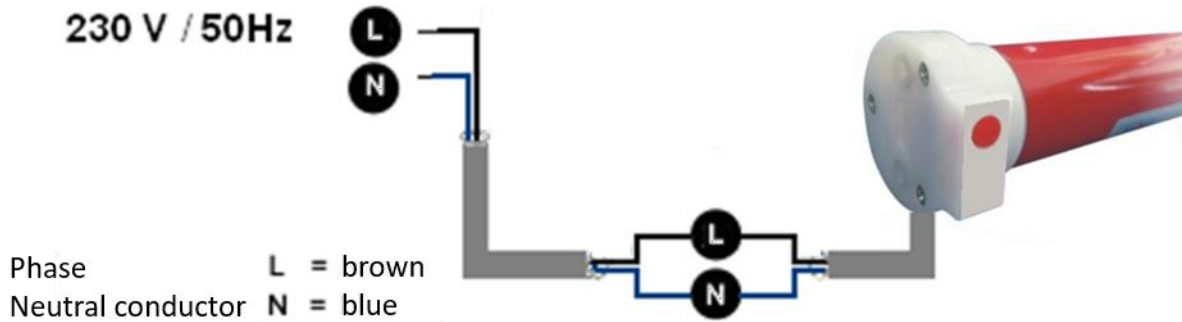
Installation



- Place the tubular motor into the roller blind's shaft.
- The driver and adapter must be completely recessed into the winding shaft. The adapter must be first pushed into the groove provided for this purpose on the crown of the motor head.
- The drive head of the motor can be installed on the right or left side.
- The maximum clearance between driver and the roller blind's shaft should not exceed 1 mm.
- The winding shaft must be at an angle of 90 degrees to the wall.
- During installation, make sure that the drive head can be reached at any time after installation in order to charge the drive via the external power supply.

3. Electrical connection

- Connect the motor as shown here.
 - The distance between the drive and the transmitter should be at least 300 mm.
 - The distance between the two radio receivers should be at least 200 mm.
- Strong, local transmitters (e.g. radio headphones) whose transmission frequency is identical to the control (433MHz) can influence the function.

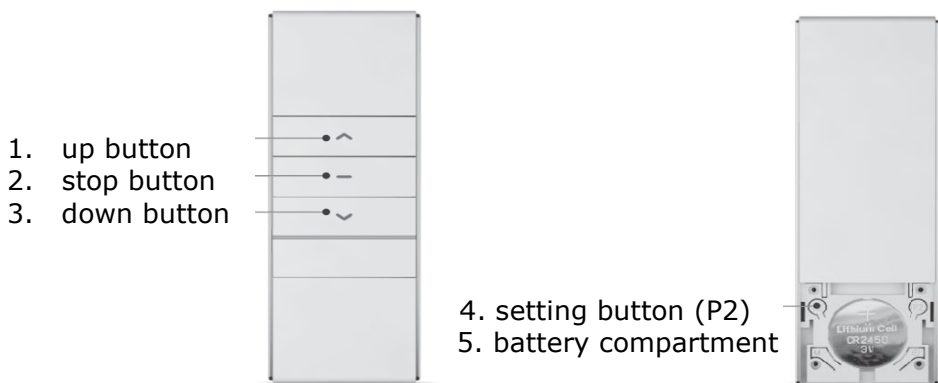


You can connect any number of SIRO motors of the EYA series directly in parallel without intermediate relays.

4. Programming the radio transmitter

4.1 Checking the connection between drive and transmitter

1. Test the connection between the remote controller and the motor by pressing the **up** or **down button** on the controller to move the drive up or down. If the connection exists, please go directly to point 4.3.
2. If the motor does not move, you must first establish the connection between the motor and the transmitter.



4.2 Establishing the connection between the motor and remote controller



- This step is necessary if you want to teach-in a new transmitter with the motor or the connection between motor and transmitter is no longer available.
- The first taught-in transmitter of an engine is the so-called senior transmitter. Up to 5 further so-called junior transmitters can be taught-in by one motor. The senior transmitter always remains the main transmitter. Only it can set the end points and transfer the function to other junior transmitters.
- Junior transmitters, on the other hand, cannot transfer their functions any further. It is recommended to keep the senior transmitter in a safe place and to use only the junior transmitters to avoid having to change the settings completely in case of damage or loss.

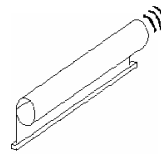
4.2.1 Delete existing connections



Before you can teach-in a transmitter as a senior transmitter, it is necessary to delete the old connections. You can then make the end position settings and activate any other junior transmitters if necessary.

1. Press and hold the **learn button** on the motor head with an object until the drive reacts (ca. 10 seconds) with two short up/down movements.
2. Release the learn button immediately.
3. All saved connections have now been deleted. You can now start a new teach-in.

Delete existing connection:



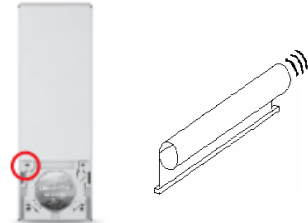
Press and hold the **learn button** ca. 10 seconds, until the motor reacts with an up/down movement or a beep.

4.2.2 Establish connection

1. Press and hold the **learn button** on the motor head until the drive reacts (usually after a few seconds) with a short up/down movement.
2. Release the learn button.
3. Press the **P2 button** twice in a row, which is located on the back of the remote. With each pressing of the P2 button, the drive reacts with a movement.
4. The connection from the drive to the remote controller is thus established.
5. You can now control the drive by pressing the **up** and **down buttons** on the remote controller.



Press and hold the **learn button**
Motor responds with up/down movement



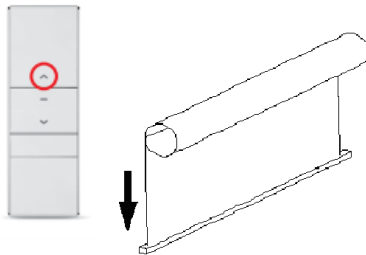
Press the **P2 button** twice
Motor responds with up/down movement

If the direction of rotation is reversed, carry out the above steps in 4.2.2 again. For example, if you pressed the **up button** the first time, press the **down button** the second time. The running direction has now been changed.

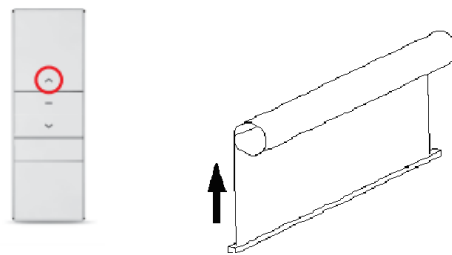
4.3 Check and change the direction of rotation of the drive



If the direction of rotation of the motor is incorrect, you must first change the direction of rotation. **Please note 4.2.2**



Wrong!



Right!

Change the direction of rotation of the motor:

You can determine the direction of rotation at the beginning of the teach-in by pressing either the upper (**up button**) or the lower (**down button**) after pressing the **P2 button** twice.

5. Setting the end positions



- You need to define the upper and lower end positions, when reaching these, the drive switches off automatically. To do this, the drive system must be fully inserted.
- You can choose whether to set the lower or upper end position first.

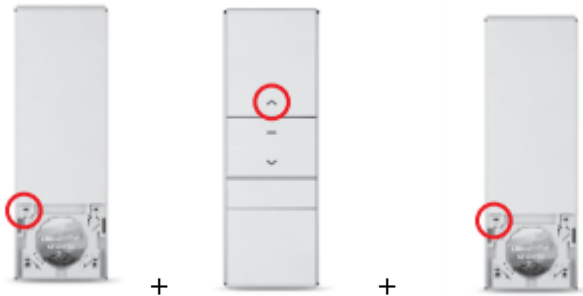
Procedure for end position setting:

Note: The time between each key combination should not be longer than 6 seconds, otherwise the setting state is aborted.

In the following the settings of the end positions are described, starting with the setting of the lower end position. You can also start here with the upper end position.

Press the **P2 button** on the remote controller, then the **up button** and again the **P2 button**. You are now in setting mode.

Info: After each command, the motor should respond with a beep or movement. This indicates that the motor has recognised the respective command.



Setting the lower end point:

1. After entering the setting mode, drive to the lower desired end position and stop there. Now press and hold the **stop button** again. The motor confirms with repeated beeps. The lower end position is now set.

Setting the upper end point:

1. Drive to the upper desired end position and stop when you reach it. Now repeat the upper procedure.
2. The upper end position is now set.

Setting a desired middle position:

(The middle position can only be set after the two end positions have been set).

The middle positioning can only be done based on the pre-set upper and lower positioning. After you have successfully implemented the upper and lower positioning, move to the desired middle position. Press the **P2 button** and then the **stop button** twice. Your middle position has been successfully completed and can be moved to from the upper or lower position by holding down the **stop button**.

Fine tuning of the lower end position:

1. After entering the setting mode, move to the lower desired end position and press the **P2 button**.
2. Now you can correct the position in small steps with the **up button** upwards. Press the **stop button** at the desired position.
3. Then secure the position by holding down the **stop button**. The motor confirms with an up/down movement and a beep.

4. The lower end position is now set.

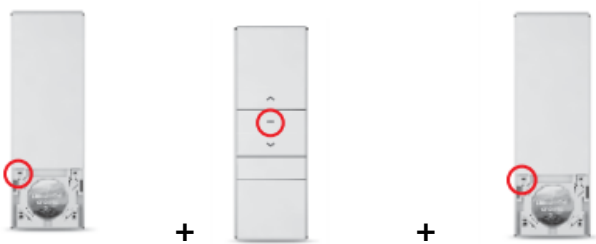
Fine tuning of the upper end position:

1. After entering the setting mode, move to the upper desired end position and press the **P2 button**.
2. Now you can correct the position in small steps with the **down button** upwards. Press the **stop button** at the desired position.
3. Then secure the position by holding down the **stop button**. The motor confirms with an up/down movement and a beep.
4. The upper end position is now set.

Deleting the end positions: Press the **P2 button**. The motor confirms with a beep. Then press the **down button**. The motor beeps. Now press the **P2 button** again. You have successfully deleted the end positions



Deleting all connection to transmitter / Deleting connection to junior transmitter:
Press the **P2 button**. Then press the **stop button** followed by pressing the **P2 button** again.



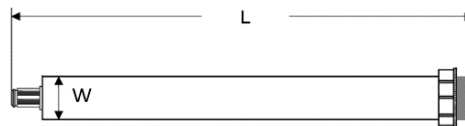
7. Technical data

Technical data	
Power supply:	AC220/230V
Protection class:	IP 30
Operating temperature:	0°C to +60°C

Definition	Diameter D (mm)	Length L (mm)	Torque (Nm)	Rotational speed (U/min)	Voltage (V)	Power Consumption (A)	Weight (g)
EYA25LE	25	455	1,1	40	100-240	0,15	388

- technische Änderungen vorbehalten -

Illustration of the motor:



8. Bug fixing

Problem	Possible cause	Solution
Drive does not run	Mains not or incorrectly connected	Check the wiring, supply voltage and connection types.
	Remote controller without function	Check that the battery is inserted correctly. If necessary, change to a new battery.
	Transmitter is not set up	Establish the connection between the motor and the transmitter (see 4.2).
Drive is very slow, even with charged battery	Incorrect installation	Make sure that the shaft, materials and drive can move freely.
	Overloading	Check the loaded weight.
	Insufficient voltage	Check whether the drive is supplied with sufficient voltage.
Drive stops in-between both end positions	Adapter or roller capsule not positioned correctly	Check that the adapter is correctly seated on the groove provided in the crown and, if necessary, screw the roller capsule into the shaft with a locking screw.
The end positions cannot be set by transmitter	The transmitter used is not a senior transmitter	End positioning setting only possible with a senior transmitter. If none is available, one must be tuned to the drive (see 4.2).

9. Warranty conditions

SIRO Antriebs- und Steuerungstechnik offers a 2-year warranty on new drives that have been professionally installed and properly operated in accordance with the installation instructions. The warranty covers all design faults, material defects and manufacturing faults.

Any defects occurring within the warranty period will be remedied by SIRO free of charge by supplying an equivalent or new product. Replacement delivery for warranty reasons does not result in general extensions of the original warranty period.

Any claims for compensation beyond this are excluded.