



BiLine Combo

 **GRIESSER**

Combo JA / RM / RW / RF S / MA K



**EN**

**Operating instructions (translation)**

Keep the operating instructions in a safe place!

<b>Safety Instructions</b> .....	EN 3
<b>Intended Use</b> .....	EN 4
<b>BiLine Combio RM / RFS / RW</b> .....	EN 5
<b>BiLine Combio JA for Venetian Blind Drives</b> .....	EN 6
<b>BiLine Combio MA-K</b> .....	EN 7
<b>Connection / Safety Instructions</b> .....	EN 8
<b>Connections Plugs / Couplings</b> .....	EN 9
<b>Commissioning of Drives</b> .....	EN 10
<b>Technical Data</b> .....	EN 11
<b>Troubleshooting Instructions</b> .....	EN 11
<b>CE Declaration of Conformity</b> .....	EN 12



Warning!



### Important safety instructions! Follow the following instructions.

Risk of injury from electrical shock.  
Connections to the public electrical grid **must** be carried out by an authorised specialist.

- Regularly check the machinery for wear and tear or damage.
- The regulations of the local power supply company and the conditions for wet and damp rooms in accordance with VDE 0100 are to be adhered to when connecting the equipment.
- Adhere to the country-specific regulations of the respective country
- Only use unchanged **elero** original parts.
- Keep people away from the equipment until it is still.
- When working on the equipment (e.g. maintenance), always separate the equipment from the electricity supply network.
- Keep children away from the controls.
- The controls may only be installed in such a way that rain does not get into them.

**Intended use**

Alternating current drives can be expanded into a radio-controlled motor with the radio receiver Combio JA / RM / RW / RF S / MA K.

The Combio JA / RM / RW / RF S / MA K must **only** be used for the controlling of rolling shutters and sun protection systems as well as venetian blinds.

- Please note that radio systems must **not** be operated in areas where there is an increased risk from interference (e.g. hospitals, airports).
- The remote control is only permitted for devices and equipment where a malfunction in the hand transmitter or receiver poses no danger for people, animals or property or where this risk is counteracted by other safety arrangements.
- The operator does not benefit from any protection whatsoever against interference from other remote control equipment and terminal equipment (e.g. also from radio equipment which is correctly operated in the same frequency range).
- Only connect radio receivers with devices and equipment permitted by the manufacturer.

**BiLine Combio RM / RF S / RW**

The Combio RM / RF S / RW is suitable for use with tubular motors for rolling shutters and sun protection equipment. An intermediate position can be saved with the hand or wall transmitter. You can also programme a tautening of the cloth for sun protection systems, and programme a venting position for rolling shutters (→ see transmitter instructions).

**Factory Setting of BiLine Combio RM / RFS / RW**

Intermediate position: no  
ventilation no

BiLine	Power Grid Connection	Motor Connection
Combio RM	250 mm STAS3	250 mm STAK3
Combio RF S	3000 mm cable	250 mm cable
Combio RW	350 mm WAGO	350 mm WAGO

**BiLine Combo JA for Venetian Blind Drives**

The BiLine Combo JA is suitable for use with sun-blind drives. The Combo JA has a tilting function for exact turning of the slats. If the button on the wall transmitter is kept pressed until the LED goes out briefly, the receiver becomes locked.

With the hand or wall transmitter, an intermediate position and a turning position can be stored for the slats (→ see transmitter instructions). The turning can only be deleted if an intermediate position has been saved.

The receiver has built-in end-position recognition. The relay drops after the end position has been reached. In the case of movement into the shading position, a turn is carried out after the lower final position is reached (factory setting after 0.5 seconds).

If an intermediate position has been reached, the end position detection is switched off. In the case of movement into the shading position, the turn is then carried out after the intermediate position is reached.

**Factory Setting BiLine Combo JA**

Intermediate position: no  
turn: 0.5 seconds

BiLine	Power Grid Connection	Motor Connection
Combo JA	750 mm STAS3	220 mm STAK3

**BiLine Combo MA K**

The BiLine Combo MA K is suitable for use with tubular motors and awnings.

An intermediate position and tautening of the cloth can be saved with the hand or wall transmitter. (→ see transmitter instructions).

The receiver has built-in end-position recognition. After the lower end-position has been reached, the cloth is tautened automatically.

When an intermediate position has been saved, no tautening of the cloth is carried out after movement into the intermediate position.

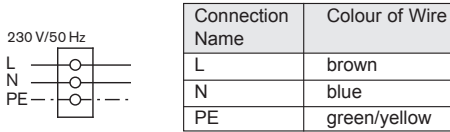
If a tautening of the cloth has not been saved, the end-position detection is switched off.

**Factory Setting BiLine Combo MA K**

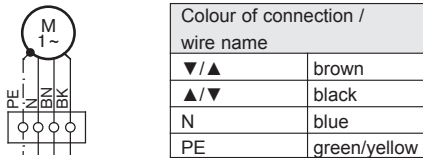
Intermediate position: 110 seconds  
Tautening of the cloth: no

BiLine	Power Grid Connection	Motor Connection
Combo MA K	250 mm STAS3	STAK3 built in

## Connection of the Lead to the Cable of the BiLine Combo



## Connection of the Motor to the Cable of the BiLine Combo



Warning!

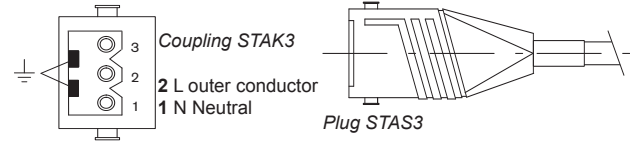


### Important safety instructions! Follow the following instructions.

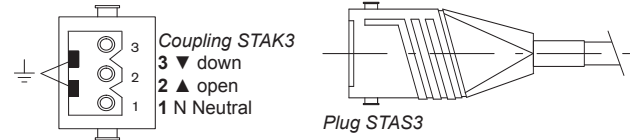
Risk of injury from electrical shock. Connections to the 230V public electrical grid **must** be carried out by an authorised skilled person.

- The regulations of the local power supply company and the conditions for wet and damp rooms in accordance with VDE 0100 are to be adhered to when connecting the equipment.
- Adhere to the country-specific regulations of the respective country
- When working on the equipment (e.g. maintenance), always separate the equipment from the electricity supply network.
- Keep children away from the controls.
- The controls must only be built in in such a way that rain cannot get into them.
- Regularly check the machinery for wear and tear or damage.

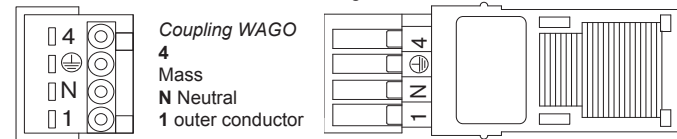
## Connection of the Lead to the Plug STAS3 of the BiLine Combo



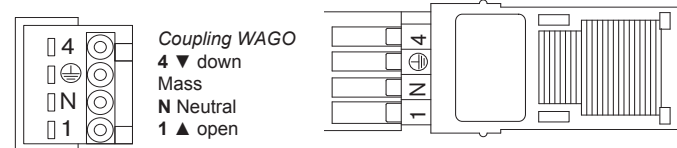
## Connection of the Motor to the Coupling STAK3 of the BiLine Combo



## Connection of the Lead to the Plug WAGO of the BiLine Combo



## Connection of the Motor to the Coupling WAGO of the BiLine Combo



## Commissioning of Electronic Motors

1. Commission the drive with the adjustment set of the motor manufacturer and adjust the limit switch in accordance with the motor instructions.
2. Move the shutter into a central position using the adjustment set.
3. Switch off the mains supply.
4. Connect the Combo to the motor and the lead.
5. Fasten the Combo.
6. Switch the mains supply back on.
7. Enter settings in the transmitter.
8. Check whether the colour commands are carried out correctly. If the shutter moves in the DOWN direction only briefly not at all, the end position detection possibly does not function with the type of motor being used. In this case the end position detection must be switched off.

## Commissioning of Motors with Mechanical Limit Switches

1. Commission the drive with the adjustment set of the motor manufacturer and adjust the limit switch in accordance with the motor instructions.
2. Move the shutter into a central position with the assembly cable.
3. Switch off the mains supply.
4. Connect the Combo to the motor and the lead.
5. Fasten the Combo.
6. Switch the mains supply back on.
7. Enter settings in the transmitter.

BiLine Combo	
Rated Voltage	230 V
Frequency	50 Hz
Power (maximum)	450 W
Protection Type IP 56	
Permitted Ambient Temperature	-20 °C to +70 °C
Radio Frequency	868.3 MHz
Dimensions in mm	L 100 x W 40 x H 10
Maximum Number of Transmitters	16

## Troubleshooting Instructions

Fault	Cause	Solution
No radio reception	1. Transmitter ist not set. 2. No mains voltage.	1. Set transmitter. 2. Switch on mains again.
Poor radio reception	Unfavourable position of the receive.	Change position of the receiver or of the antenna.
Drive is running in the wrong direction	Directions are incorrectly entered.	Delete and correctly enter transmitter.

## EC DECLARATION OF CONFORMITY

We hereby declare that the following mentioned product/s meet/s the standards of the European Community.

Product designation: **ProLine 2**

- Combio-867 / -868 / -915 all versions
- Revio-867 / -868 all versions

Description: Radio receivers for bidirectional and unidirectional control of roller shutters, venetian blinds and other shading systems as well as other actuators.

The conformity of the above mentioned products with the relevant health and safety requirements is taken into account by the following directives and standards:

- EMC Directive 2004/108/EC  
EN 61000-6-1:2007, EN 61000-6-2:2006  
EN 61000-6-3:2011, EN 61000-6-4:2011
- Low Voltage Directive 2006/95/EC  
EN 60669-1:2009, EN 60669-2-1:2010
- R&TTE Directive 1999/5/EC  
ETSI EN 301 489-3 V1.4.1  
ETSI EN 300 220-2 V2.1.2
- RoHS Directive 2002/95/EC

Beuren, 11.01.2012



Ralph Trost  
-CE Manager-, -Representative documentation -