

# GEIGER

ANTRIEBSTECHNIK

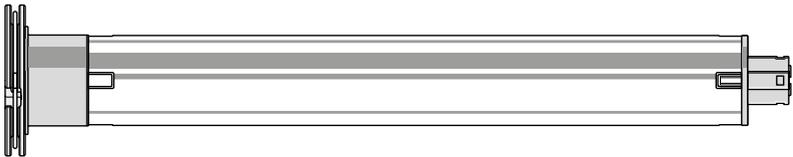
Tubular motor:

## GEIGER SOLIDline

Motor control:

## GEIGER VariousWireless (GU45..F01)

for rolling shutters, screens and open style  
folding arm awnings



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Original assembly and  
operating instructions

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## 1. General information

Dear customer,

By purchasing a GEIGER motor you have decided on a quality product from GEIGER.

Thank you very much for your decision and the confidence placed in us.

Before you put this drive into operation please observe the following safety instructions. It serves for the prevention of danger and for the avoidance of personal injury and damage to property.

The installation and operating instructions contain important information for the installer, the specialist electrician and the user. Please pass on these instructions if you transfer the product. These instructions should be kept by the user.

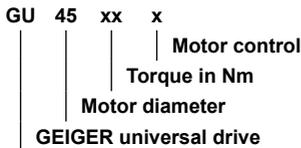
## 2. Guarantee

In the case of incorrect installation contrary to the installation and operating instructions and/or constructional modification, the legal and contractual guarantee for property damage and product liability lapses.

### 3. Intended use

The tubular motors of the model range SOLIDline (GU45..F01) with electronic end stop are designed exclusively for the operation of rolling shutters, screens and open style folding arm awnings.

The motors may not be used for the operation of roller grilles, garage doors, furniture and lifting tools.



### 4. Safety instructions



**ATTENTION: Important safety instructions. For personal safety, it is important to follow these instructions. Please keep these instructions for future reference.**

- ▶ Do not allow children to play with stationary controls. Keep remote controls away from children.
- ▶ The installation is to be checked regularly for defective balance, signs of wear or damaged cables and springs, if relevant.
- ▶ Do observe the moving sun protection system and keep persons away until it has closed completely.
- ▶ When operating the manual release with the sun protection system open, please be cautious as it can fall down quickly if springs or tapes wear off or are broken.
- ▶ Do not operate the device if operations such as, for example, window cleaning are to be carried out in the vicinity.
- ▶ Disconnect the automatic controlled device from the mains power supply if operations such as, for example, window cleaning are being carried out in the vicinity.
- ▶ During operation observe the danger zone.
- ▶ Do not use the installation if people or objects are in the danger zone.
- ▶ Urgently shut down damaged installations until repair.
- ▶ Unconditionally shut down the unit during maintenance and cleaning operations.
- ▶ Pinching and shearing points are to be avoided and must be secured.
- ▶ This appliance can be used by children aged 8 and above and persons whose physical, sensorial or mental capacities are impaired, or who have no experience or know-how if they have been supervised or been given instructions on the use of the appliance and if they understand the possible resulting dangers. Children are not permitted to play with the device. Cleaning and maintenance should not be carried out by children.
- ▶ The rated sound pressure level is less than 70 dB(A).
- ▶ Disconnect the device from the mains power supply for maintenance and replacement of parts.
  - If the motor is disconnected via a plug connection the operator must be able to control - from any place to which it has access – that the plug is removed.
  - If this is not possible - due to design or installation - the disconnection from the power supply must be ensured via locking in the disconnected position (e.g. isolator).
- ▶ The motor tube can get very hot during prolonged use.
  - When working on the unit, do not touch the tube before it has cooled down.

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## 5. Safety instructions for assembly



**ATTENTION: Important safety instructions. Follow all installation instructions, as incorrect installation can lead to serious injuries.**

- ▶ When mounting the motor without any mechanical protection of the driven parts and of the tube which may become hot, the motor must be installed at a height of at least 2.5 m above the ground or of another level which provides access to the drive.
- ▶ Before the motor is installed, all cables which are not needed are to be removed and all equipment which is not needed for power-operated actuation is to be put out of operation.
- ▶ The actuating element of a manual release must be mounted at a height of less than 1.8 m.
- ▶ If the motor is controlled by a switch or pushbutton, the switch or pushbutton must be mounted within eyeshot of the motor. The switch or pushbutton must not be located in the vicinity of moving parts. The height of installation must be at least 1.5 m above the floor.
- ▶ Permanently installed control devices must be attached visibly.
- ▶ In case of devices extending horizontally, a horizontal distance of at least 0.4 m must be respected between the fully extended part and any other fixed element.
- ▶ The rated speed and the rated torque of the motor must be compatible with the device.
- ▶ The mounting accessories that are used must be designed in accordance with the selected rated torque.
- ▶ Good technical knowledge and good mechanical skills are necessary for the motor installation. Incorrect installation can lead to serious injury. Electrical work must be carried out by a qualified electrician in accordance with the regulations in force locally.
- ▶ Only use connecting cables that are suitable with the environmental conditions and which meet the construction requirements. (see accessories catalogue)
- ▶ If the device is not equipped with a connecting cable and a plug, or other means for disconnecting from the mains with a contact opening on each pole according to the conditions of the overvoltage category III for full disconnection, a disconnecting device of this type must be incorporated into the permanently installed electrical installation according to the wiring rules.
- ▶ Do not mount the connecting cables near hot surfaces.
- ▶ A plug for the disconnection of the motor from the power supply must be accessible after installation.
- ▶ Damaged connecting cables must be replaced by GEIGER connecting cables of the same type.
- ▶ The device must be mounted as described in the installation instructions. Fixations shall not be made with adhesives since they are regarded as unreliable.

## 6. Installation instructions



Before fixing, the strength of the masonry or of the subsurface is to be checked.



Prior to installation please check to ensure there is no visible damage to the motor like cracks or open cables.



**Caution:** If the tube is screwed/riveted to the drive, the measure must be taken from the tube end to the center of the drive and marked on the tube.

When drilling the winding shaft never drill into the area of the tubular motor!

When inserting into the shaft, the tubular motor must not be struck and must not be allowed to fall into the shaft

### Installation into the rolling shutter:

Fix motor support to available stud bolts or in the side frame.

Insert motor into the shaft with a suitable adapter and drive up to the stop of the shaft adapter.

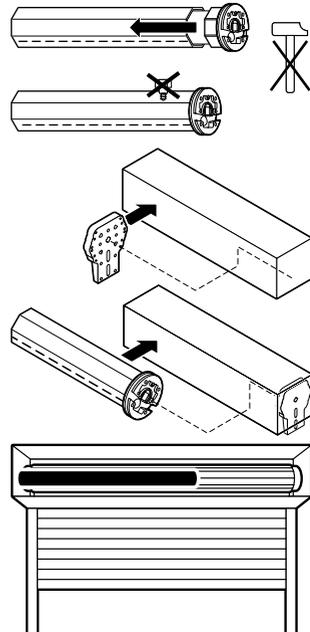
Insert roller capsule on the opposite side.

Put shaft with motor on motor support or on pivoting engine bearer. On the opposite side pull out roller capsule until bolt fits into ball bearing.

Screw together roller capsule with shaft.  
Screw together shaft with tubular carrier.

Fix rolling shutter casing to shaft.

**Alternative:** Use fixation plates for front box units. Attach the motor. The bearing locks into place. To loosen, turn the spring washer.



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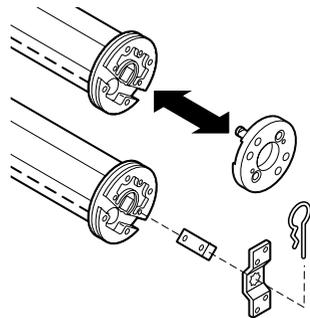
### Installation into the awning or screen:

Insert motor with a suitable adapter and drive into the shaft up to the stop of the shaft adapter.

Fix the motor support on the awning. Fix the motor together with the shaft on the motor support. The bearer locks into place.

**Depending on the selected motor head, different fixation systems can be used:**

- Place the motor with square insert in the star-shaped bearer and lock with pin
- Place the motor into the existing engine bearer and lock
- Place the motor in a compatible engine bearer with clip system and lock with spring or rotating lever



**The GEIGER SOLIDline motor is suitable for shaft diameters from 50 mm.**

## 7. Information for the specialist electrician



**Caution: Important installation instructions. Please follow all instructions since incorrect installation can lead to the destruction of the motor and the switching unit.**

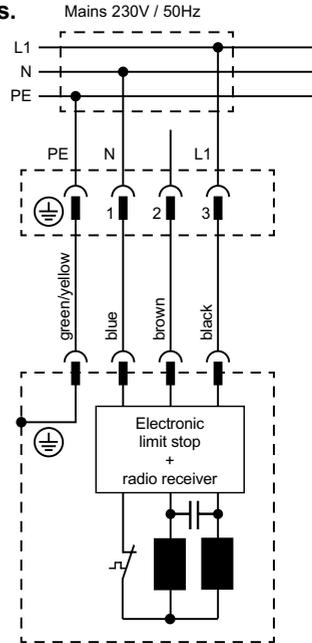
The operations with the service clamps may be accomplished only by an electrical specialist.

Motors with electronic limit stops can be connected in parallel. In this case the maximum load of the switching unit must not be exceeded.

When changing the running direction the switchover must be effected through an off-position.

When changing the running direction the switchover time must be at least 0.5 s.

With a three-phase network, please use the same external conductor in order to control the UP and DOWN directions. PVC cables are not suitable for equipment used outdoors or exposed to prolonged high levels of UV radiation. These cables should not be used if they are likely to touch metal parts that can heat up to temperatures exceeding 70°C. Connecting cables with plug connectors of the Hirschmann Company are tested and approved with couplings of the Hirschmann Company.



## 8. Bringing into service

**Definition of „near range“:**

Distance of the hand-held transmitter to the motor control:  
max. 15 cm,

**or**

hold at the hand-held transmitter directly on to the motor-connecting cable.

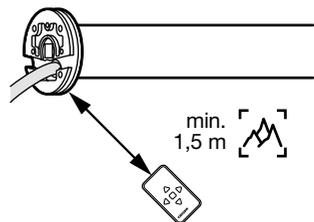
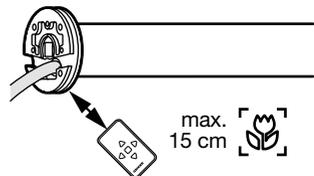
The motor-connecting cable thus serves up to a length of 3 metres as an "antenna".

**Definition of „far range“:**

Distance of the hand-held transmitter to the motor control:  
min. 1.5 metres,

**and**

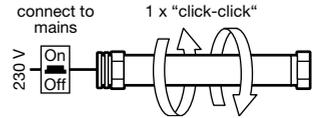
distance of the hand held transmitter to the motor connecting cable min. 0.5 metres



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### Activate learning mode:

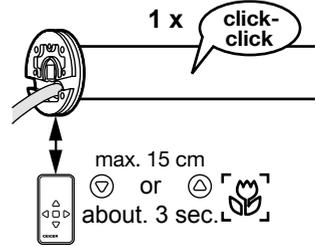
Connect the motor to the power grid.  
Switch on the mains. The motor makes a short back and forth movement (1 x "click-click").  
After each interruption of the voltage supply, the learning mode can be activated for 30 min.



**! The learning mode is necessary in order to transmit transmitters, or in order to be able to adjust the end positions again.**

In the near range press UP or DOWN key and keep it pressed for about 3 seconds until the motor actuates (1 x "click-click").

**! If no action takes place within 60 seconds, the learning mode is deactivated. The motor returns to normal operation (3 x "click-click").**

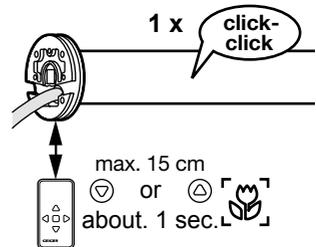


## 9. Learning/deleting the transmitter

**! The learning mode must be activated first in order to delete the transmitters.**

In the near range press UP or DOWN key for about 1 second. The motor actuates. (1 x "click-click").

The transmitter is taught to the motor.

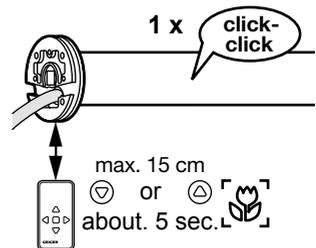


### Deleting the transmitter

**! The learning mode must be activated first in order to delete the transmitters.**

At near range, press the UP or DOWN key and hold approx. 5 seconds. The motor reacts immediately (1 x "click-click"). Keep the key pressed about 5 sec. until the motor confirms the deleting of the transmitters with 1 x "click-click".

**! Please note: You can only delete all transmitters/sensors. It is not possible to delete an individual transmitter/sensor.**



## 10. Adjustment of the end positions / Intermediate position

	The following installation types are possible:	The following installation types are possible:	Awning is equipped with:
<b>A</b>	Upper and lower end position with stop	End bar with stopper/ with anti-lift device	–
<b>B</b>	Upper end position of freely adjustable/lower end position with stop	End bar with stopper/ without anti-lift device	–
<b>C</b>	Upper end position with stop/lower end position freely adjustable	End bar with stopper/ no anti-lift device	awning arms used as stops
<b>D</b>	Upper and lower end positions freely adjustable	End bar without stopper/no anti-lift device	no stops are used



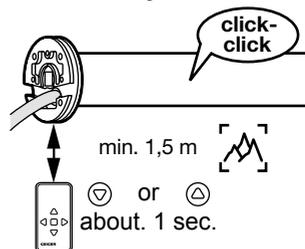
**The learning mode must be activated first in order to adjust the end positions (see page 7).**

### Activate end position mode:

In the far range press the UP or DOWN key for about 1 second and keep it pressed until the motor actuates (1 x “click-click”).



**Please note: The key assignment for UP or DOWN takes place automatically, depending on the installation type, during or after the finish of the end position programming.**



### Change/delete the end positions

In order to change or delete the end positions, a new programming must be started (see «learning the end positions»).



**The learning mode must be activated first in order to adjust/delete the end positions (see page 7).**

## 11. Learning the end positions

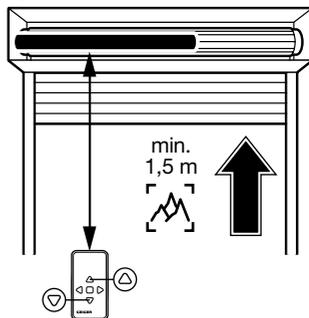
### Variant A: Upper and lower end position with stop

#### Upper end position:

In the far range, press the UP or DOWN key and keep it pressed until the hangings have reached the upper stop and the motor switches off -automatically.

#### The upper end position is now stored.

The UP and DOWN keys are now assigned to the corresponding turning direction of the motor.



#### Lower end position:

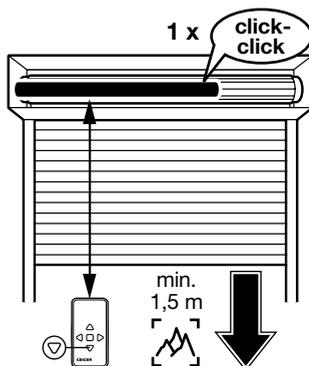
In the far range pressed the DOWN key and keep it pressed until the hangings have reached the lower stop and the motor switches off automatically.

The motor confirms with 1 x "click-click".

The lower end position is now stored.



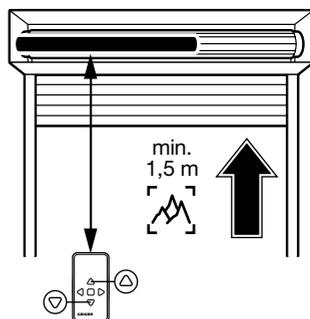
**Programming is finished and the motor has changed to normal operation.**



## Variant B: Upper end position freely adjustable/ lower end position with stop

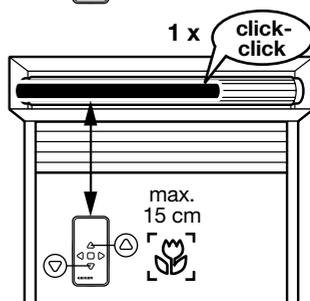
### Upper end position:

In the far range press the UP or DOWN key and keep it pressed until the hangings have reached the desired upper end position. Corrections with UP or DOWN key are possible.



### Store upper end position:

In the near range press the UP or DOWN key for about 1 second. The motor actuates (1 x "click-click").



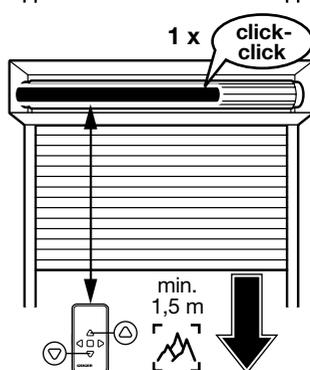
### Store lower end position:

In the far range press the UP or DOWN key and keep it pressed until the hangings have reached the lower stop and the motor switches off automatically.

The motor confirms with 1 x "click-click".

**The lower end position is now stored.**

The UP and DOWN keys are now assigned to the corresponding turning direction of the motor.



**Programming is finished and the motor has changed to normal operation.**

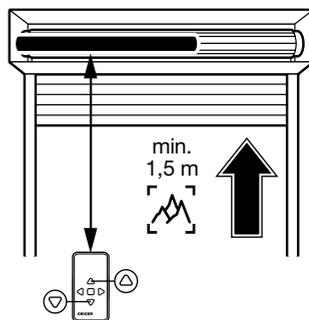
## Variant C: Upper end position with stop/ lower end position freely adjustable

### Upper end position:

In the far range press the UP or DOWN key and keep it pressed until the hangings have reached the upper stop and the motor switches off automatically.

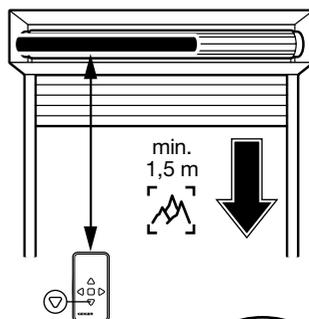
**The upper end position is now stored.**

The UP and DOWN keys are now assigned to the corresponding turning direction of the motor.



### Lower end position:

In the far range press the DOWN key and keep it pressed until the hangings have reached the desired lower end position. Corrections with UP or DOWN are possible.

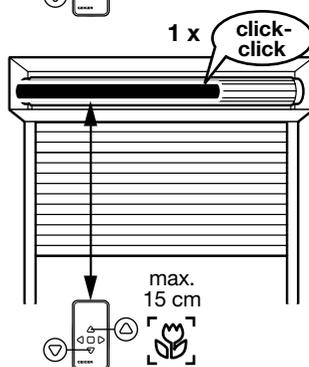


### Store lower end position:

In the near range press UP or DOWN key for about 1 second. The motor actuates (1 x "click-click").



**Programming is finished and the motor has changed to normal operation.**

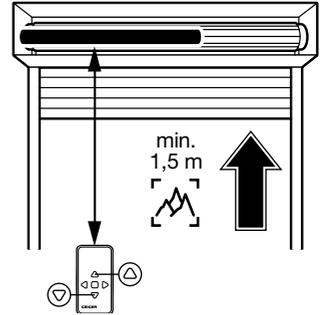


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## Variant D: Upper and lower end positions freely adjustable

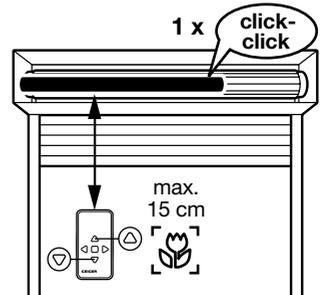
### Upper end position:

In the far range press UP or DOWN key and keep it pressed until the hangings have reached the desired upper end position. Corrections without UP or DOWN key are possible.



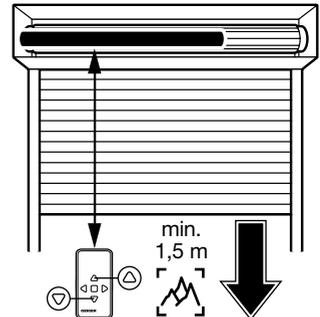
### Store upper end position:

In the near range press UP or DOWN key for about 1 second. The motor actuates (1 x "click-click").



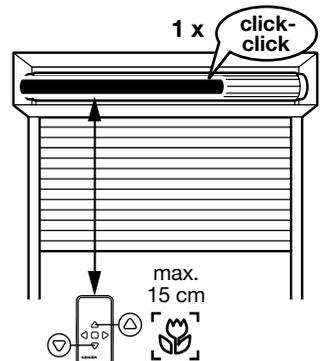
### Lower end position:

In the far range press UP or DOWN key and keep pressed until the hangings have reached the desired lower end position. Corrections with UP or DOWN key are possible.



### Store lower end position:

In the near range press UP or DOWN key for about 1 second. The motor actuates (1 x "click-click"). The UP and DOWN keys are now assigned to the corresponding turning direction of the motor.



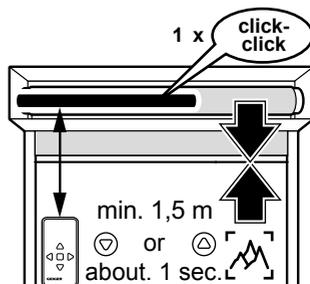
## 12. Teach intermediate position

Travel from any desired position to the desired end position, stop with the opposite key or the stop key and hold key pressed for ca. 3 sec. until the motor responds (1 x "click-click").

The intermediate position is now stored.

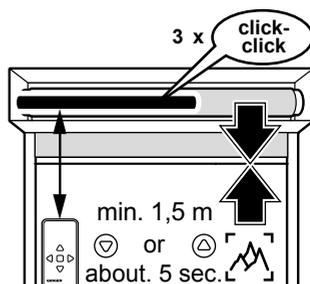
### Change intermediate position

See "teach intermediate position", but in a new desired position.



### Cancel intermediate position

Stop hangings from UP or DOWN movement and keep key pressed for about 5 sec. until the motor responds (3x "click-click").



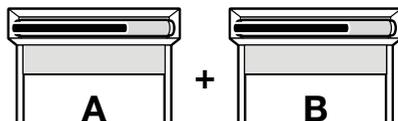
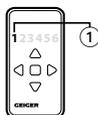
## 13. Grouped control

(see also point Learning / deleting the transmitter)

1. Operate together sun protection A and sun protection B with a one-channel transmitter.

Sun protections A + B

1. Actuate key 3 sec. at close range to activate the learning mode of the sun protection A.
2. Actuate key 1 sec. at close range to program the transmitter of the sun protection A.
3. Actuate key 3 sec. at close range to activate the learning mode of the sun protection B.
4. Actuate key 1 sec. at close range to program the transmitter of the sun protection B.



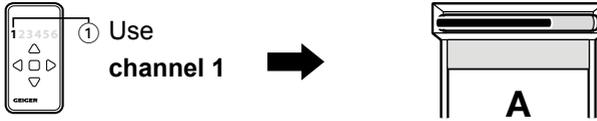
Same operation for **three** or **more** sun protections.

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## 2. Individual or grouped control of sun protection A + sun protection B with a 6-channel transmitter.

### Sun protection A

1. Actuate key 3 sec. at close range to activate the learning mode of the sun protection A.
2. Actuate key 1 sec. at close range to program the transmitter of the sun protection A.



### Sun protection B

1. Actuate key 3 sec. at close range to activate the learning mode of the sun protection B.
2. Actuate key 1 sec. at close range to program the transmitter of the sun protection B.



### Sun protections A + B

1. Actuate key 3 sec. at close range to activate the learning mode of the sun protection A.
2. Actuate key 1 sec. at close range to program the transmitter of the sun protection A.
3. Actuate key 3 sec. at close range to activate the learning mode of the sun protection B.
4. Actuate key 1 sec. at close range to program the transmitter of the sun protection B.



## 14. Deactivation of the close-range function

If two motors are installed so that both trigger in the close range, there is the option of deactivating the close-range function in one of the two motors.



**The prerequisite is that the motors must be assigned to different button pairs.**

To deactivate the close-range function, move the desired hanging to the upper end position, push the „UP“ button and keep it pushed for about 5 seconds until the motor confirms (2 x “click-click”).

The motor must be disconnected from the mains briefly to activate the close-range function.

## 15. Setting of end stops with open style folding arm awnings

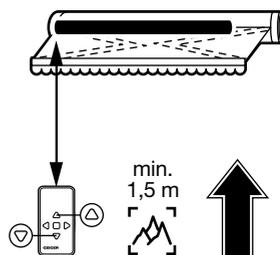
### Variant C: Upper end position with stop/lower end position freely adjustable

#### Upper end position:

In the far range press the UP or DOWN key and keep it pressed until the hangings have reached the upper stop and the motor switches off automatically.

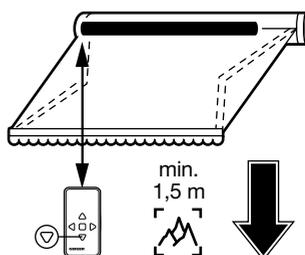
**The upper end position is now stored.**

The UP and DOWN keys are now assigned to the corresponding turning direction of the motor.



#### Lower end position:

In the far range press the DOWN key and keep it pressed until the hangings have reached the desired lower end position. Corrections with UP or DOWN key are possible.

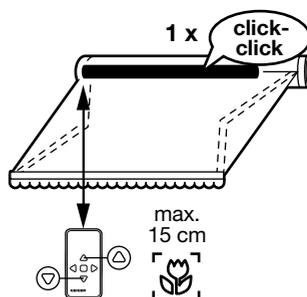


#### Store lower end position:

In the near range press UP or DOWN key for about 1 second. The motor actuates (1 x "click-click").



**Programming is finished and the motor has changed to normal operation.**

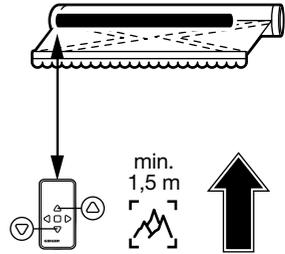


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## Variant D: Upper and lower end positions freely adjustable

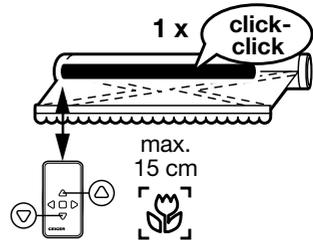
### Upper end position:

In the far range press UP or DOWN key and keep it pressed until the hangings have reached the desired upper end position. Corrections without UP or OFF key are possible..



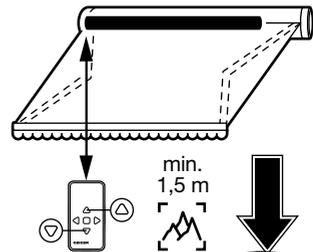
### Store upper end position:

In the near range press UP or DOWN key for about 1 second. The motor actuates (1 x "click-click").



### Lower end position:

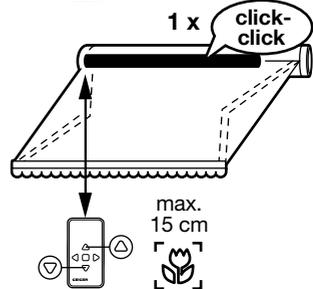
In the far range press UP or DOWN key and keep pressed until the hangings have reached the desired lower end position. Corrections with UP or OFF key are possible.



### Store lower end position:

In the near range press UP or DOWN key for about 1 second. The motor actuates (1 x "click-click").

**Programming is finished and the motor has changed to normal operation.**



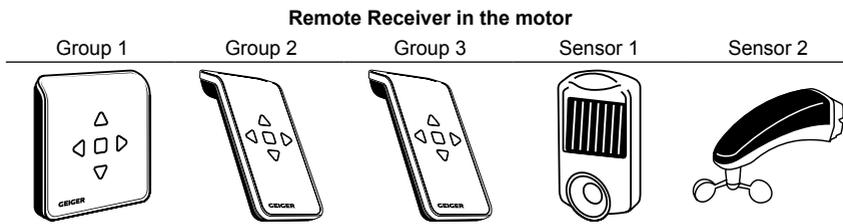
## 16. Transmitters

A maximum of three different transmitters can be taught-in. The motor can therefore be a part of three independent groups. Additionally, two sensors can be taught-in.

Should there already be three transmitters and you attempt to teach-in a fourth, the old third transmitter will be deleted and the new one will replace it.

Should there already be two sensors and you attempt to teach-in a third, the second one will be deleted and the new one will replace it.

**Example:**



### Programming from near range / far range

An approximation detector is integrated in the motor's remote receiver, which recognizes whether a remote transmission is being operated from a distance = long range, (at least 1,5 meters from the motor control and 0,5 meters from the motor cables), or in tight on the antenna = short range, (maximum 15 cm away and directly on the motor connection cable).



**Caution: Should remote receivers or motor connection cables lie near one another, transmitters could unintentionally be transferred to other remote receivers.**

### Recommendation:

Motors operated via a different pair of keys, or through a different transmitter, should be disconnected from the power line during initial operation.

**By the handheld and wall transmitters of the LC series the first 6 digits are configurable. The DIP switch Nr. 7, 8 and 9 have no functions.**

## 17. Starting from the end positions

### No intermediate position has been programmed:

To start from the end positions, a short key pressure in the corresponding direction of movement is sufficient.

To stop the movement, a short key pressure in the opposite direction is sufficient.

Should a sun-wind sensor be integrated into the system, the end positions are started in automatic mode (sun-on).

### An intermediate position is programmed:

To start from the end positions, the key corresponding to the correct direction of movement must be pressed for **at least 1,5 seconds**.

With a short key press of **under 1.5 seconds**, the **intermediate position** is travelled to.

For stopping the travel movement a short key press in the opposite direction is sufficient.

Should a sun-wind sensor be integrated into the system, the end positions are started in automatic mode (sun-on).

## 18. Obstacle recognition

After the setting of the end stop (variant A or C), the motor stops before reaching the limit stop in order to avoid a mechanical load of the sun protection. Checking of the end position, and if appropriate an end position correction, takes place after 5, 20, and then every 50 cycles.

In any following complete, uninterrupted travel from end position to end position, the torque needed is automatically reset. Slow changes in the installation due to ageing, soiling, cold or heat are thus automatically taken into consideration. This process occurs for both run directions independently of one another.

If a travel movement in UP direction is blocked by an obstacle, the motor switches off. The running direction in which the obstacle was recognized is blocked after the motor has tried several times to achieve the end position. The block is removed if the motor has been operated in the opposite direction for a certain time. An obstacle must thus first be released before the motor can be operated again in the direction of the obstacle.

## 19. End position correction

After the setting of the end stop, the motor stops before reaching the upper limit stop in order to avoid a mechanical load of the sun protection.

Checking of the end position, and if appropriate an end position correction, takes place after 5, 20, and then every 50 cycles. Should a hangings elongation have resulted, due to temperature changes, this is corrected at the next end position correction. If, due to temperature changes, modified winding behaviour should arise and the hangings should run against the stop, an immediate end position correction takes place. In addition, the counter for the end position correction is started afresh.

## 20. Technical data

Technical data of tubular motor SOLIDline-SOC (GU45..)					
	GU4510	GU4520	GU4530	GU4540	GU4550
<b>Voltage</b>	230 V~/50 Hz				
<b>Current</b>	0,47 A	0,63 A	0,8 A	1,0 A	1,0 A
<b>Cos Phi (cos<math>\varphi</math>)</b>	>0,95				
<b>Inrush current (factor)</b>	x 1,2				
<b>Power</b>	105 W	140 W	180 W	220 W	220 W
<b>Torque</b>	10 Nm	20 Nm	30 Nm	40 Nm	50 Nm
<b>Speed</b>	16 rpm	16 rpm	16 rpm	16 rpm	12 rpm
<b>Protection class</b>	IP 44				
<b>Total length<sup>1)</sup></b>	519,5 mm	549,5 mm	569,5 mm	589,5 mm	589,5 mm
<b>Operating mode</b>	S2 4 min	S2 5 min	S2 4 min	S2 4 min	S2 4 min
<b>Sound pressure level<sup>2)</sup></b>	39 dB(A)	41 dB(A)	41 dB(A)	43 dB(A)	-
<b>Diameter</b>	45 mm				
<b>Weight</b>	approx 1,90 kg	approx 2,20 kg	approx 2,40 kg	approx 2,70 kg	approx 2,70 kg
<b>Air humidity</b>	dry and non-condensing place				
<b>Ambient temperature</b>	T = -15°C .. +70°C				

<sup>1)</sup> SOLIDline-COM + 0,5 mm

<sup>2)</sup> The average sound pressure level data are intended for guidance only. The values were determined by GEIGER at a distance of 1 m, with a hanging motor at idle speed and averaged over 10 seconds. There is no reference to any specific test standard.

Subject to technical modifications

## 21. What to do if...

Problem	Solution
<b>Motor does not run.</b>	<ul style="list-style-type: none"> <li>• Motor not plugged in. Please check the plug connection.</li> <li>• Check connecting cable for possible damage.</li> <li>• Check the mains voltage and allow the cause of the voltage breakdown to be tested by a specialist electrician.</li> </ul>
<b>Instead of in the downwards direction, motor runs upwards.</b>	<ul style="list-style-type: none"> <li>• End position order was not observed. Reset end stops.</li> </ul>
<b>Transmitter does not work.</b>	<ul style="list-style-type: none"> <li>• Check the battery.</li> <li>• The wind sensor has triggered. Try it again after the expiry of the wind cut-off time.</li> <li>• Inadvertent deletion of the transmitter</li> <li>• Start learning again.</li> </ul>
<b>After running several times, the motor breaks down and no longer responds.</b>	<ul style="list-style-type: none"> <li>• The motor became too hot and has switched off. Try it again after a cooling time of about 15 min.</li> </ul>
<b>The motor no longer runs automatically.</b>	<ul style="list-style-type: none"> <li>• The sun automatic control mechanism was switched off.</li> <li>• The wind sensor has triggered. Try it again after the expiry of the wind cut-off time.</li> <li>• Inadvertent deletion of the transmitter. Start learning again.</li> </ul>
<b>The motor does not react to the short range.</b>	<ul style="list-style-type: none"> <li>• Move as close as possible to the motor head or the connecting cable.</li> <li>• Exchange the batteries in the transmitter.</li> <li>• The short range is deactivated. In order to activate the short range, disconnect the motor from the power supply for about 3 seconds.</li> <li>• The learning mode time is over (30 minutes). To activate the near range, switch off the motor for about 3 seconds.</li> </ul>

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## 22. Maintenance

The drive is maintenance-free.

## 23. Notes on waste disposal

### Recycling of packaging materials

In the interest of environmental protection, please contact your local government's recycling or solid waste management department to learn more about the services it provides.

### Waste disposal of electric and electronic equipment

Electrical and electronic equipment must be collected and disposed of separately in accordance with EU regulations.

# 24. Declaration of conformity



## EU Declaration of Conformity

Gerhard Geiger GmbH & Co. KG  
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**Product designation:**  
Venetian blinds motor, motor for rolling shutters, motor for awnings

**Type designation:**  
GJ56., GR45., GU45., GSI56., GB45., GB35..

**Applied directives:**  
2006/42/EG  
2014/53/EU  
2011/65/EU + (EU)2015/863 + (EU)2017/2102

**Applied standards:**  
EN 60335-1:2012  
EN 60335-1:2012/AC:2014  
EN 60335-1:2012/A11:2014  
EN 60335-1:2012/A13:2017  
EN 60335-1:2012/A1:2019  
EN 60335-1:2012/A14:2019  
EN 60335-1:2012/A2:2019  
EN 60335-2-97:2006+A11:2008+A2:2010+A12:2015  
EN 62233:2008  
EN 62233 Ber.1:2008  
EN 55014-1:2017  
EN 55014-2:2015  
EN 61000-3-2:2019  
EN 61000-3-3:2013

ETSI EN 301 489-1 V2.2.0(2017-03)  
ETSI EN 301 489-3 V2.1.1(2019-03)  
ETSI EN 300 220-2 V3.1.1(2017-02)

DIN EN IEC 63000:2019-05

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Bietigheim-Bissingen, 20.04.2022

  
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Geschäftsführer: Roland Kraus | WEEE-Reg.-Nr. DE47902323

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For technical questions, please call our service team at: +49 (0) 7142 938 333. They will be happy to assist you.



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