# Setting Instructions

# Electronic Motor

# -Studio Star-

schanz
Rollladensysteme

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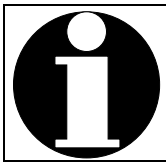
|---|---|
|  | This Operating Instruction contains important safety instructions. For the safety of persons it is important to follow these instructions.<br>This instruction should be kept. |

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**Content**



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|  | **General Information:**<br><br>**The motor is fitted with an overheating protection.**<br>**In case the motor switches off through overheating it can only be put into service again after a common cooling phase.** |

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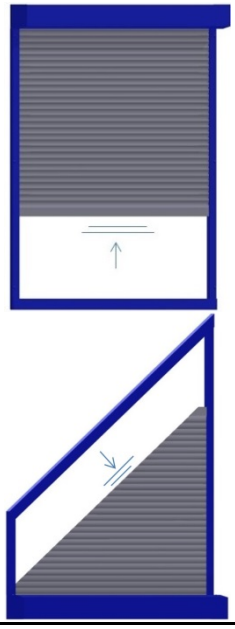
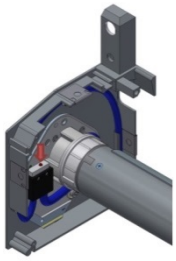
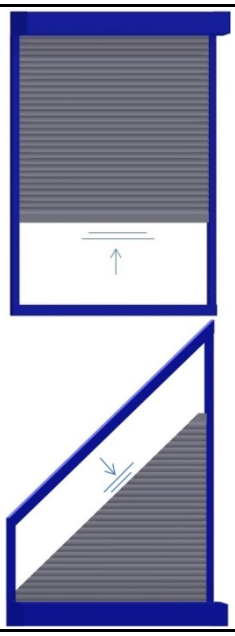
|  | **If a mistake occurs during the learning process, the power fails or the overheating protection starts, the setting of the end-points has to be performed again.**<br><br>**In the event of a malfunction in the direction UP or DOWN a start in the same direction is not possible, the drive must be freed at first in the opposite direction.** |

# 1. Setting the drive into learning mode

## 1.1. Setting with test cable

| Step No. | Operation | Note | Check |
|---|---|---|---|
| | The motor is delivered in learning mode. If a fault occurs during the programming or if an already programmed drive should be installed in a different position or changes were made to the roller shutter, then the drive can be set again into learning mode. All defined values will be deleted.<br>Therefore and for setting the endpoints in mode 2-4 a special test cable is necessary so that UP and DOWN can be pressed simultaneously. | | |
| 10 |  | Press either both buttons or the programming button* for at least 6 sec. until the drive twitches once.<br>If the drive is already in learning mode a second twitch occurs after approx. 1 sec. This has to be ignored.<br><br>**Note:**<br>This step can be ignored when setting the roller shutter for the first time as the drive is in learning mode upon delivery.<br><br>*Depending on test cable model |  |

## 1.2. Setting with micro switch and switch

| Step No. | Operation | Note | Check |
|---|---|---|---|
| | The motor is delivered in learning mode. If a fault occurs during the programming or if an already programmed drive should be installed in a different position or changes were made to the roller shutter, then the drive can be set again into learning mode. Besides all values are deleted. | | |
| 10 |  <br>  | Keep the button in the micro-switch pressed.<br><br>Keep the UP or DOWN button pressed for 6 sec. until the drive twitches once.<br>If the drive is already in learning mode a second twitch occurs after approx. 1 sec. This has to be ignored.<br><br>If the drive does not move, release the micro-switch and bring the control switch back in the neutral position.<br><br>Then again keep the button in the micro-switch pressed and press the other UP or DOWN button for 6 sec. until the roller shutter slat twitches once.<br><br>**The button that functions is from now the active button. For any further setting this active button has to be used.** |  |

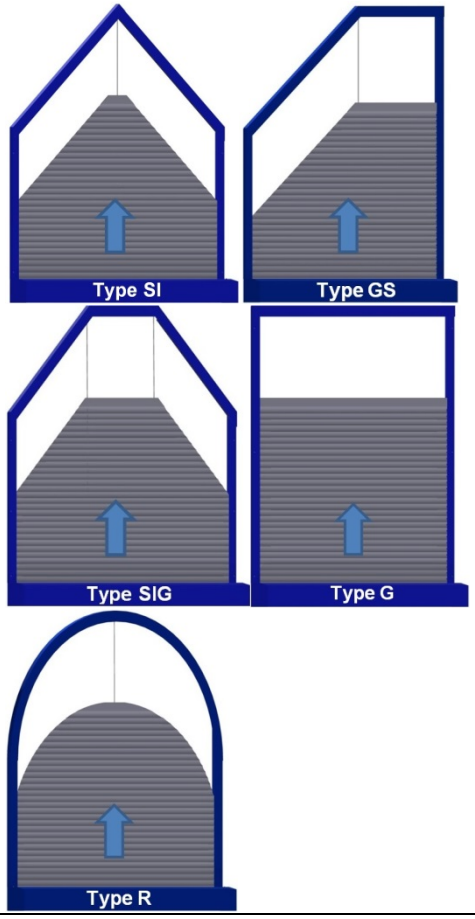
## 2. Setting Instructions - Type: S, GS, SI, SIG, R, G

The drive has 2 different switching modes, the selection takes place automatically via the setting.

### 2.1. Overview Off-Mode 1 – Only suitable for type S

| | |
|---|---|
| **Upper end position about torque detection (shutter moves against the stop) / End position down after putting on the armor guided tour through the system detects that the winding shaft.**<br><br>An end position readjustment, caused by elongation or Cord elongation, automatically carried out from the upper end position. |  |

### 2.2. Overview Off-Mode 2 - For all types with box on bottom

| | |
|---|---|
| **Upper end position about torque detection (shutter moves against the stop) / set end position bottom.**<br><br>An end position readjustment, caused by elongation or Cord elongation, automatically carried out from the upper end position. |  |

**Note**

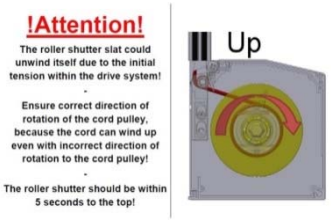
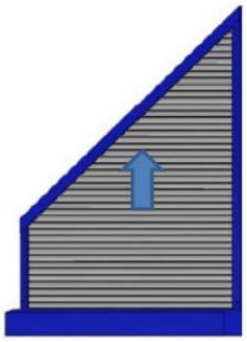
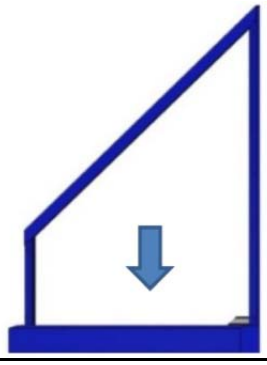
After the installation of the drive the spring shaft can be loaded via the programming button and the cord can be put in the correct position.
- Please note the separate instructions
- Upon delivery, unnecessary

If the drive switches off due to a malfunction (too fast increase of force) before reaching the endpoint, it has to be set into learning mode again.

| | |
|---|---|
|  | **Important! Adhere to the sequence, first the upper and then the lower float stop has to be teached.** |

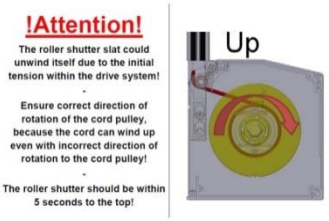
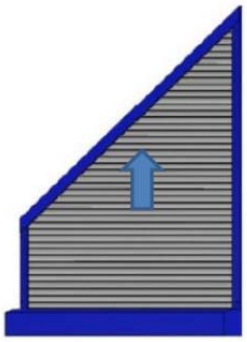
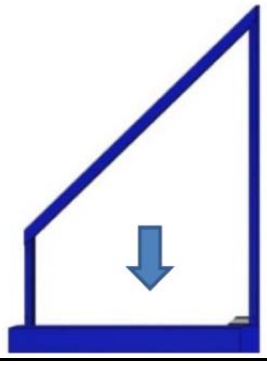
### 2.3. Setting Off-Mode 1 (with test cable) - Only suitable for type S

(Upper end position about torque detection / End position down after putting on the armor guided tour through the system detects that the winding shaft) - Automatic setting

| Step No. | Operation | Note | Check |
|---|---|---|---|
| | **Important:**<br>- First, there must always be taught the upper end position.<br>- If the drive switches off due to a malfunction (too fast increase of force) before reaching the endpoint, it has to be set into learning mode again. | | |
| 10 |  | **Setting the upper end position**<br><br>Press UP-Button,<br>until the upper end position is reached and switches off automatically about the torque detection. Keep pressing the button for at least 1 sec. longer after switching off.<br>  |  |
| 20 |  | **Setting the lower end position**<br><br>Press DOWN-Button,<br>until the lower end position is reached and the drive switches off automatically shortly after the fastening of the end rod. Keep pressing the button for at least 1 sec. longer after switching off.<br><br>The setting mode is exited. |  |
| **The learning of the forces happens automatically when running <u>continuously</u> from one end position to the other. Perform this first test run only after completing all installation.** | | | |

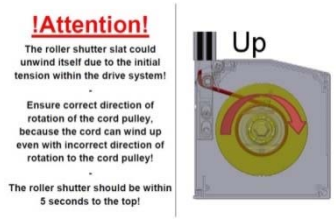
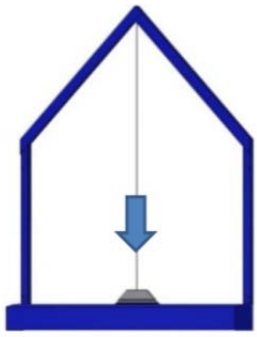
### 2.4. Setting Off-Mode 1 (with micro switch and switch) - Only suitable for type S

(Upper end position about torque detection / End position down after putting on the armor guided tour through the system detects that the winding shaft) - Automatic setting

| Step No. | Operation | Note | Check |
|---|---|---|---|
| | **Important:**<br>- First, there must always be taught the upper end position.<br>- If the drive switches off due to a malfunction (too fast increase of force) before reaching the endpoint, it has to be set into learning mode again. | | |
| 10 |  | **Setting the upper end position**<br><br>Press UP-Button,<br>until the upper end position is reached and switches off automatically about the torque detection. Keep pressing the button for at least 1 sec. longer after switching off.<br>  |  |
| 20 |  | **Setting the lower end position**<br><br>Press DOWN-Button,<br>until the lower end position is reached and the drive switches off automatically shortly after the fastening of the end rod. Keep pressing the button for at least 1 sec. longer after switching off.<br><br>The setting mode is exited. |  |
| **The learning of the forces happens automatically when running <u>continuously</u> from one end position to the other. Perform this first test run only after completing all installation.** | | | |

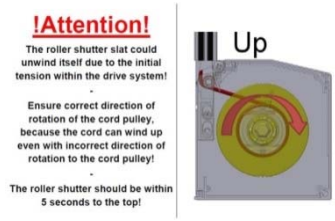
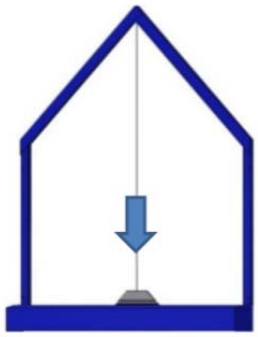
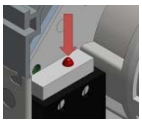
### 2.5. Setting Off-Mode 2 (with test cable) – For all types with box on bottom

(Upper end position about torque detection / set end position bottom)

| Step No. | Operation | Note | Check |
|---|---|---|---|
| | | **Important:**<br>- First, there must always be taught the upper end position.<br>- If the drive switches off due to a malfunction (too fast increase of force) before reaching the endpoint, it has to be set into learning mode again. | |
| 10 |  | **Setting the upper end position**<br><br>Press UP-Button,<br>until the upper end position is reached and switches off automatically about the torque detection. Keep pressing the button for at least 1 sec. longer after switching off.<br><br>  |  |
| 20 |  | **Setting the lower end position**<br><br>Press DOWN-Button,<br>until the desired position is reached. The end rod is in the area of the end stop, the cord is not yet loose.<br><br>Moving back or moving in short impulses is allowed. |  |
| 30 |  | Press both buttons simultaneously or the programming button* for ca. 2 sec. in order to learn the lower position. As a learning confirmation it twitches twice.<br><br>**Attention:** Pressing the buttons not long enough the position will not be learned.<br><br>The setting mode is exited.<br><br>*Depending on test cable model | |
| **The learning of the forces happens automatically when running <u>continuously</u> from one end position to the other. Perform this first test run only after completing all installation.** | | | |

### 2.6. Setting Off-Mode 2 (with micro switch and switch) – For all types with box on bottom

(Upper end position about torque detection / set end position bottom)

| Step No. | Operation | Note | Check |
|---|---|---|---|
| | **Important:**<br>- First, there must always be taught the upper end position.<br>- If the drive switches off due to a malfunction (too fast increase of force) before reaching the endpoint, it has to be set into learning mode again. | | |
| 10 |  | **Setting the upper end position**<br><br>Press UP-Button,<br>until the upper end position is reached and switches off automatically about the torque detection. Keep pressing the button for at least 1 sec. longer after switching off.<br>  |  |
| 20 |  | **Setting the lower end position**<br><br>Press DOWN-Button<br>until the desired position is reached. The end rod is in the area of the end stop, the cord is not yet loose.<br><br>Moving back or moving in short impulses is allowed. |  |
| 30 |  <br>  | First press the micro switch and then the active button for ca. 2 sec. in order to learn the lower position. As a learning confirmation it twitches twice.<br><br>**Attention:** Pressing the buttons not long enough the position will not be learned.<br><br>The setting mode is exited. | |
| **The learning of the forces happens automatically when running <u>continuously</u> from one end position to the other. Perform this first test run only after completing all installation.** | | | |

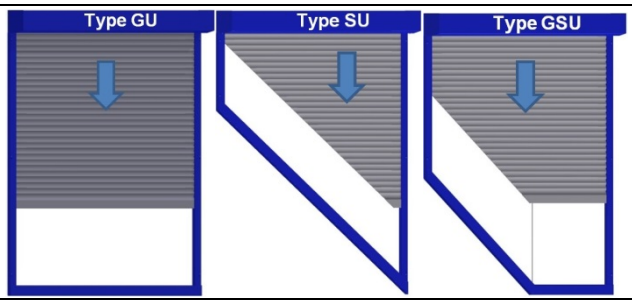
## 3. Setting Instructions - Type: GU, SU, GSU, SIU, SIGU, RU

The drive has 4 different switching modes, the selection takes place automatically via the setting.

### 3.1. Overview Off-Mode 1

| | |
|---|---|
| **Upper and lower end position about torque detection (shutter moves against the stop).**<br><br>Both end position stops are being readjusted automatically.<br><br>Note:<br>This mode is suitable only with solid shaft connectors and not for the Schanz special profile |  |

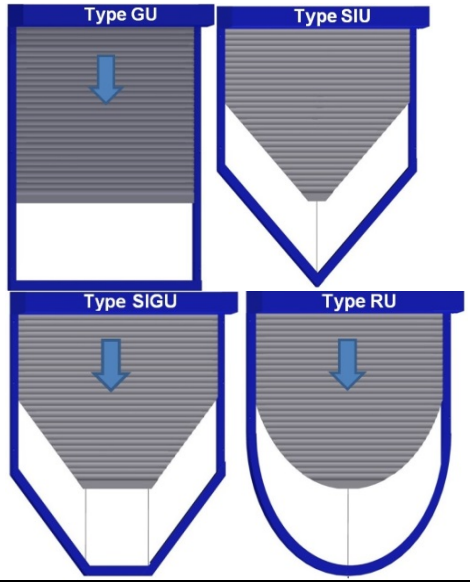
### 3.2. Overview Off-Mode 2 – Standard for type GU

| | |
|---|---|
| **Upper end position about torque detection (shutter moves against the stop) / set end position bottom.**<br><br>The upper end position is being readjusted automatically, the lower end position stays fix. |  |

### 3.3. Overview Off-Mode 3

| | |
|---|---|
| **Set end position at the top / lower end position about torque detection (shutter moves against the stop)**<br><br>The upper end position is being readjusted automatically, the lower end position stays fix.<br><br>Note:<br>This mode is suitable only with solid shaft connectors and not for the Schanz special profile. |  |

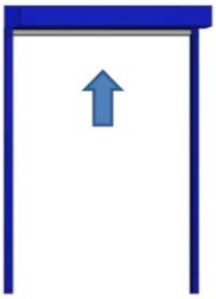
### 3.4. Overview Off-Mode 4

| | |
|---|---|
| **Set end position at the top / set end position bottom**<br><br>An automatic readjustment does not take place. |  |

| | |
|---|---|
|  | **Important! Adhere to the sequence, first the upper and then the lower float stop has to be teached.** |

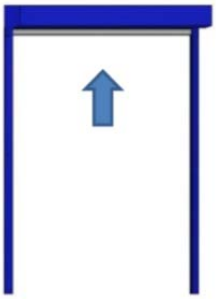
### 3.5. Setting Off-Mode 1 (with test cable)

(Upper and lower end position about torque detection) - Automatic setting

| Step No. | Operation | Note | Check |
|---|---|---|---|
| | **Important:**<br>- First, there must always be taught the upper end position.<br>- If the drive switches off due to a malfunction (too fast increase of force) before reaching the endpoint, it has to be set into learning mode again. | | |
| 10 |  | **Setting the upper end position**<br><br>Press UP-Button,<br>until the upper end position is reached and switches off automatically about the torque detection. Keep pressing the button for at least 1 sec. longer after switching off. |  |
| 20 |  | **Setting the lower end position**<br><br>Press DOWN-Button,<br>until the lower end position is reached and the drive switches off automatically shortly after the fastening of the end rod. Keep pressing the button for at least 1 sec. longer after switching off.<br><br>The setting mode is exited. |  |
| **The learning of the forces happens automatically when running <u>continuously</u> from one end position to the other. Perform this first test run only after completing all installation.** | | | |

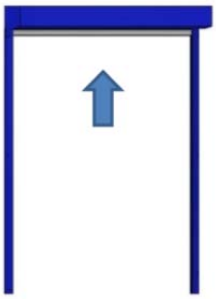
### 3.6. Setting Off-Mode 1 (with micro switch and switch)

(Upper and lower end position about torque detection) - Automatic setting

| Step No. | Operation | Note | Check |
|---|---|---|---|
| | **Important:**<br>- First, there must always be taught the upper end position.<br>- If the drive switches off due to a malfunction (too fast increase of force) before reaching the endpoint, it has to be set into learning mode again. | | |
| 10 |  | **Setting the upper end position**<br><br>Press UP-Button,<br>until the upper end position is reached and switches off automatically about the torque detection. Keep pressing the button for at least 1 sec. longer after switching off. |  |
| 20 |  | **Setting the lower end position**<br><br>Press DOWN-Button,<br>until the lower end position is reached and the drive switches off automatically shortly after the fastening of the end rod. Keep pressing the button for at least 1 sec. longer after switching off.<br><br>The setting mode is exited. |  |
| **The learning of the forces happens automatically when running <u>continuously</u> from one end position to the other. Perform this first test run only after completing all installation.** | | | |

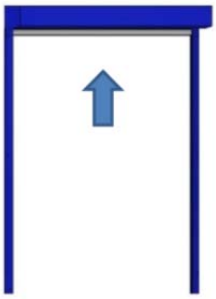
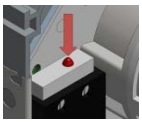
### 3.7. Setting Off-Mode 2 (with test cable) - Standard for type GU

(Upper end position about torque detection / set end position bottom)

| Step No. | Operation | Note | Check |
|---|---|---|---|
| | **Important:**<br>- First, there must always be taught the upper end position.<br>- If the drive switches off due to a malfunction (too fast increase of force) before reaching the endpoint, it has to be set into learning mode again. | | |
| 10 |  | **Setting the upper end position**<br><br>Press UP-Button,<br>until the upper end position is reached and switches off automatically about the torque detection. Keep pressing the button for at least 1 sec. longer after switching off. |  |
| 20 |  | **Setting the lower end position**<br><br>Press DOWN-button,<br>until the desired lower end position is reached.<br><br>Only for type GU with foamed slats:<br><br>- Hangers lie outside (right roller shutter) or at the window (left rolling shutter) the spring has no pressure yet.<br>- Final rail is on the ground, light slits are closed, if they exist.<br><br>Moving back or moving in short impulses is allowed. |  |
| 30 |  | Press both buttons simultaneously or the programming button* for ca. 2 sec. in order to learn the lower position. As a learning confirmation it twitches twice.<br><br>**Attention:** Pressing the buttons not long enough the position will not be learned.<br><br>The setting mode is exited.<br><br>*Depending on test cable model | |
| **The learning of the forces happens automatically when running <u>continuously</u> from one end position to the other. Perform this first test run only after completing all installation.** | | | |

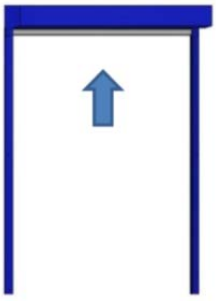
### 3.8. Setting Off-Mode 2 (with micro switch or switch) - Standard for type GU

(Upper end position about torque detection / set end position bottom)

| Step No. | Operation | Note | Check |
|---|---|---|---|
| | **Important:**<br>- First, there must always be taught the upper end position.<br>- If the drive switches off due to a malfunction (too fast increase of force) before reaching the endpoint, it has to be set into learning mode again. | | |
| 10 |  | **Setting the upper end position**<br><br>Press UP-Button,<br>until the upper end position is reached and switches off automatically about the torque detection. Keep pressing the button for at least 1 sec. longer after switching off. |  |
| 20 |  | **Setting the lower end position**<br><br>Press DOWN-button,<br>until the desired lower end position is reached.<br><br>Only for type GU with foamed slats:<br><br>- Hangers lie outside (right roller shutter) or at the window (left rolling shutter) the spring has no pressure yet.<br>- Final rail is on the ground, light slits are closed, if they exist.<br><br>Moving back or moving in short impulses is allowed. |  |
| 30 |  <br>  | First press the micro switch and then the active button for ca. 2 sec. in order to learn the upper position. As a learning confirmation it twitches twice.<br><br>**Attention:** Pressing the buttons not long enough the position will not be learned.<br><br>The setting mode is exited. | |
| **The learning of the forces happens automatically when running <u>continuously</u> from one end position to the other. Perform this first test run only after completing all installation.** | | | |

### 3.9. Setting Off-Mode 3 (with test cable)

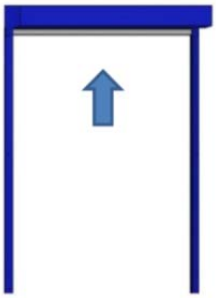
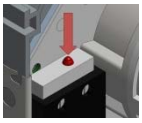
(Set end position at the top / lower end position about torque detection)

| Step No. | Operation | Note | Check |
|---|---|---|---|
| | **Important:**<br>- First, there must always be taught the upper end position.<br>- If the drive switches off due to a malfunction (too fast increase of force) before reaching the endpoint, it has to be set into learning mode again. | | |
| 10 |  | **Setting the upper end position**<br><br>Press UP-Button,<br>until the shutter is in the desired upper end position. However it has to stand stable within the guiding so that it does not leave it when changing the winding behaviour.<br><br>Moving back or moving in short impulses is allowed. |  |
| 20 |  | Press both buttons simultaneously or the programming button* for ca. 2 sec. in order to learn the upper position. As a learning confirmation it twitches twice.<br><br>**Attention:** Pressing the buttons not long enough the position will not be learned.<br><br>*Depending on test cable model | |

| Step No. | Operation | Note | Check |
|---|---|---|---|
| 30 |  | **Setting the lower end position**<br><br>Press DOWN-Button,<br>until the lower end position is reached and the drive switches off, keep pressing the button for at least 1 sec. longer after switching off.<br><br>The setting mode is exited. |  |
| **The learning of the forces happens automatically when running <u>continuously</u> from one end position to the other. Perform this first test run only after completing all installation.** | | | |

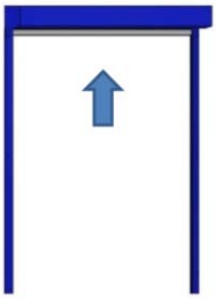
### 3.10. Setting Off-Mode 3 (with micro switch and switch)

(Set end position at the top / lower end position about torque detection)

| Step No. | Operation | Note | Check |
|---|---|---|---|
| | **Important:**<br>- First, there must always be taught the upper end position.<br>- If the drive switches off due to a malfunction (too fast increase of force) before reaching the endpoint, it has to be set into learning mode again. | | |
| 10 |  | **Setting the upper end position**<br><br>Press UP-Button,<br>until the shutter is in the desired upper end position. However it has to stand stable within the guiding so that it does not leave it when changing the winding behaviour.<br><br>Moving back or moving in short impulses is allowed. |  |
| 20 |  <br>  | First press the micro switch and then the active button for ca. 2 sec. in order to learn the upper position. As a learning confirmation it twitches twice.<br><br>**Attention:** Pressing the buttons not long enough the position will not be learned. | |
| 30 |  | **Setting the lower end position**<br><br>Press DOWN-Button,<br>until the lower end position is reached and the drive switches off, keep pressing the button for at least 1 sec. longer after switching off.<br><br>The setting mode is exited. |  |
| **The learning of the forces happens automatically when running <u>continuously</u> from one end position to the other. Perform this first test run only after completing all installation.** | | | |

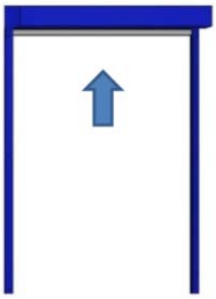
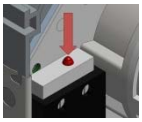
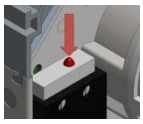
### 3.11. Setting Off-Mode 4 (with test cable)

(Set end Position at the top / set end position bottom)

| Step No. | Operation | Note | Check |
|---|---|---|---|
| | **Important:**<br>- First, there must always be taught the upper end position.<br>- If the drive switches off due to a malfunction (too fast increase of force) before reaching the endpoint, it has to be set into learning mode again. | | |
| 10 |  | **Setting the upper end position**<br><br>Press UP-Button,<br>until the shutter is in the desired upper end position. However it has to stand stable within the guiding so that it does not leave it when changing the winding behaviour.<br><br>Moving back or moving in short impulses is allowed. |  |
| 20 |  | Press both buttons simultaneously or the programming button* for ca. 2 sec. in order to learn the upper position. As a learning confirmation it twitches twice.<br><br>**Attention:** Pressing the buttons not long enough the position will not be learned.<br><br>*Depending on test cable model | |
| 30 |  | **Setting the lower end position**<br><br>Press DOWN-button,<br>until the desired lower end position is reached.<br><br>Only for type GU with foamed slats:<br><br>- Hangers lie outside (right roller shutter) or at the window (left rolling shutter) the spring has no pressure yet.<br>- Final rail is on the ground, light slits are closed, if they exist.<br><br>Moving back or moving in short impulses is allowed. |  |
| 40 |  | Press both buttons simultaneously or the programming button for ca. 2 sec. in order to learn the lower position. As a learning confirmation it twitches twice.<br><br>**Attention:** Pressing the buttons not long enough the position will not be learned.<br><br>The setting mode is exited.<br><br>* Depending on test cable model | |
| **The learning of the forces happens automatically when running <u>continuously</u> from one end position to the other. Perform this first test run only after completing all installation.** | | | |

### 3.12. Setting Mode 4 (with micro-switch or switch)

(Set end position at the top / set end position bottom)

| Step No. | Operation | Note | Check |
|---|---|---|---|
| | **Important:**<br>- First, there must always be taught the upper end position.<br>- If the drive switches off due to a malfunction (too fast increase of force) before reaching the endpoint, it has to be set into learning mode again. | | |
| 10 |  | **Setting the upper end position**<br><br>Press UP-Button,<br>until the shutter is in the desired upper end position. However it has to stand stable within the guiding so that it does not leave it when changing the winding behaviour.<br><br>Moving back or moving in short impulses is allowed. |  |
| 20 |  <br>  | First press the micro switch and then the active button for ca. 2 sec. in order to learn the upper position. As a learning confirmation it twitches twice.<br><br>**Attention:** Pressing the buttons not long enough the position will not be learned. | |
| 30 |  | **Setting the lower end position**<br><br>Press DOWN-button,<br>until the desired lower end position is reached.<br><br>Only for type GU with foamed slats:<br><br>- Hangers lie outside (right roller shutter) or at the window (left rolling shutter) the spring has no pressure yet.<br>- Final rail is on the ground, light slits are closed, if they exist.<br><br>Moving back or moving in short impulses is allowed. |  |
| 40 |  <br>  | First press the micro switch and then the active button for ca. 2 sec. in order to learn the down position. As a learning confirmation it twitches twice.<br><br>**Attention:** Pressing the buttons not long enough the position will not be learned.<br><br>The setting mode is exited. | |
| **The learning of the forces happens automatically when running <u>continuously</u> from one end position to the other. Perform this first test run only after completing all installation.** | | | |

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