

# Setting Instructions

## Electronic Motor

### -Wiga Star-



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

**Schanz Rollladensysteme GmbH**

Forchenbusch 9

D- 72226 Simmersfeld

Tel. +49 (0)7484/9291-0

Fax: +49 (0)7484/9291-36

E-Mail: [info@schanz.de](mailto:info@schanz.de)

Internet: [www.schanz.com](http://www.schanz.com)

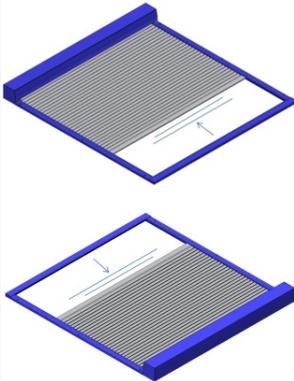
**Content**

1.	Setting the drive into learning mode.....	3
1.1.	Setting with test cable.....	3
1.2.	Setting with micro switch and switch.....	3
2.	Setting instructions - Type: DG, DGS, DSIG, DSI, DS.....	4
2.1.	Overview Switch-Off Mode 1 – Only applicable for Type DS.....	4
2.2.	Overview Switch-off-Mode 2- For all types with roller shutter box at the bottom.....	4
2.3.	Setting Switch-off-Mode 1 (with test cable) – Only applicable for Type DS.....	5
2.4.	Setting Switch-Off Mode 1 (with micro switch and switch) – Only applicable for type DS.....	5
2.5.	Setting Switch-off-Mode 2 (with test cable) – For all types with roller shutter box at the bottom.....	6
2.6.	Setting Switch-off-Mode 2 (with micro switch and switch) – For all types with roller shutter box at the bottom.....	7
3.	Setting Instructions - Type: DGU, DGSU, DSIGU, DSIU, DSU.....	8
3.1.	Overview Switch-off-Mode 2 – Standard Setting.....	8
3.2.	Overview Switch-off-Mode 4 – Additional Setting Options.....	8
3.3.	Setting Switch-off-Mode 2 (with test cable) – Standard Setting.....	9
3.4.	Setting Switch-Off Mode 2 (with micro switch and switch) – Standard Setting.....	11
3.5.	Setting Switch-off-Mode 4 (with test cable) – Additional Setting Options.....	13
3.6.	Setting Switch-off-Mode 4 (with micro switch and switch) – Additional Setting Option.....	15
4.	Copyright/ References to this documentation.....	16

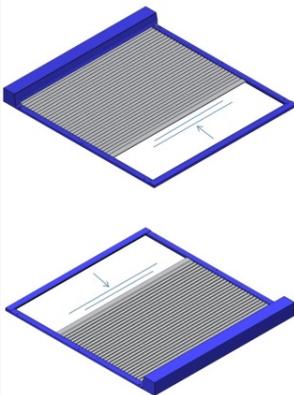
	<p><b>General Information:</b></p> <p>The motor is fitted with an overheating protection. In case the motor switches off through overheating it can only be put into service again after a common cooling phase.</p>
	<p>If a mistake occurs during the learning process, the power fails or the overheating protection starts, the setting of the end-points has to be performed again.</p> <p>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.</p>

## 1. Setting the drive into learning mode

### 1.1. Setting with test cable

Step No.	Note	Operation	Check
	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. When this is done, all set values will be deleted. 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		<p>Press either both buttons or the programming button* for at least 6 sec. until the drive twitches once.</p> <p>If the drive is already in learning mode a second twitch occurs after approx. 1 sec. This has to be ignored.</p> <p style="text-align: right;">*Depending on test cable model</p>	

### 1.2. Setting with micro switch and switch

Step No.	Note	Operation	Check
	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		<p>Keep the button in the micro switch pressed.</p> <p>Keep the UP or DOWN button pressed for 6 sec. until the drive twitches once.</p> <p>If the drive is already in learning mode a second twitch occurs after approx. 1 sec. This has to be ignored.</p> <p>If the drive does not move, release the micro switch and bring the control switch back in the neutral position.</p> <p>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.</p> <p><b>The button that functions is from now the active button. For any further setting this active button has to be used.</b></p>	

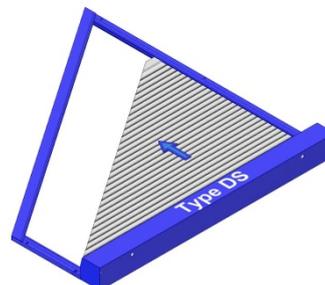
## 2. Setting instructions - Type: DG, DGS, DSIG, DSI, DS

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

### 2.1. Overview Switch-Off Mode 1 – Only applicable for Type DS

**Upper end position via torque detection (roller shutter moves into top end position)/ lower end position after roller shutter rests recognizing the stop of the winding shaft.**

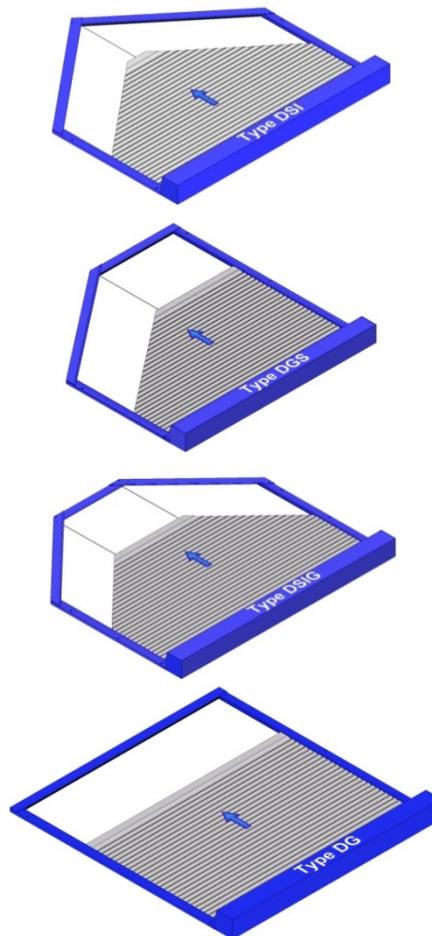
A readjustment of the final position occurs automatically from the top end position, triggered by a stretch of the shutter or an elongation of the cord.



### 2.2. Overview Switch-off-Mode 2- For all types with roller shutter box at the bottom

**Upper end position via torque detection / lower end position set**

A readjustment of the final position occurs automatically from the top end position, triggered by a stretch of the shutter or an elongation of the cord.

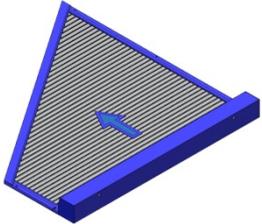
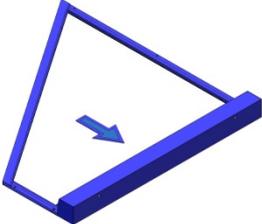


**Important! Adhere to the sequence, first the upper and then the lower end position has to be taught.**

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

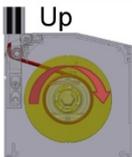
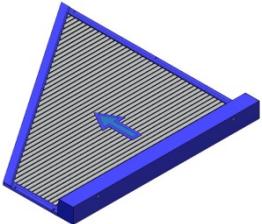
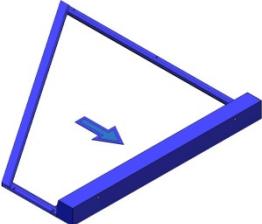
### 2.3. Setting Switch-off-Mode 1 (with test cable) – Only applicable for Type DS

(Upper end position via torque detection / lower end position after roller shutter rests recognizing the stop of the winding shaft) – Automatic setting

Step No.	Note	Operation	Check
	<b>Important:</b> <ul style="list-style-type: none"> <li>- It must always first be taught the upper end position.</li> <li>- If the drive switches off due to a malfunction (too fast increase of forces) before reaching the end point, it has to be set into learning mode again.</li> </ul>		
10		<b>Setting of the upper end position</b> Press UP-Button, until the upper end position is reached and switches off automatically via the torque detection. Keep pressing the button for at least 1 sec. longer after switching off.  <b>!Attention!</b> The roller shutter slat could unwind itself due to the initial tension within the drive system! - Ensure correct direction of rotation of the cord pulley, because the cord can wind up even with incorrect direction of rotation to the cord pulley! - The roller shutter should be within 5 seconds to the top! 	
20		<b>Setting of the lower end position</b> Press DOWN-Button, 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.  The setting mode is being exited.	
<b>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.</b>			

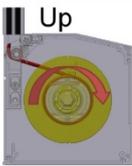
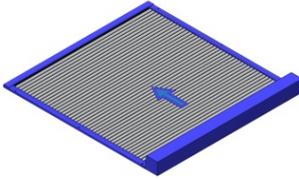
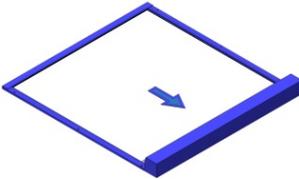
### 2.4. Setting Switch-Off Mode 1 (with micro switch and switch) – Only applicable for type DS

(Upper end position via torque detection / lower end position after roller shutter rests recognizing the stop of the winding shaft) – Automatic setting

Step No.	Note	Operation	Check
	<b>Important:</b> <ul style="list-style-type: none"> <li>- It must always first be taught the upper end position.</li> <li>- If the drive switches off due to a malfunction (too fast increase of forces) before reaching the end point, it has to be set into learning mode again.</li> </ul>		
10		<b>Setting of the upper end position</b> Press UP-Button, until the upper end position is reached and switches off automatically via the torque detection. Keep pressing the button for at least 1 sec. longer after switching off.  <b>!Attention!</b> The roller shutter slat could unwind itself due to the initial tension within the drive system! - Ensure correct direction of rotation of the cord pulley, because the cord can wind up even with incorrect direction of rotation to the cord pulley! - The roller shutter should be within 5 seconds to the top! 	
20		<b>Setting of the lower end position</b> Press DOWN-Button, 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.  The setting mode is being exited.	
<b>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.</b>			

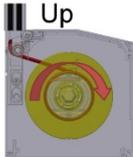
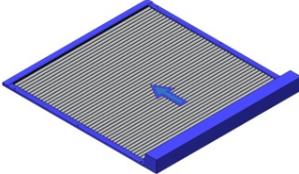
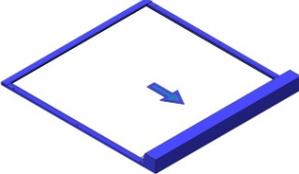
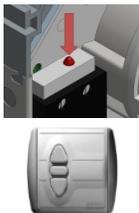
## 2.5. Setting Switch-off-Mode 2 (with test cable) – For all types with roller shutter box at the bottom

(Upper end position via torque detection / lower end position set)

Step No.	Note	Operation	Check
	<p><b>Important:</b></p> <ul style="list-style-type: none"> <li>- It must always first be taught the upper end position.</li> <li>- If the drive switches off due to a malfunction (too fast increase of forces) before reaching the end point, it has to be set into learning mode again.</li> </ul>		
10		<p><b>Setting of the upper end position</b></p> <p>Press UP-Button, until the upper end position is reached and switches off automatically via the torque detection. Keep pressing the button for at least 1 sec. longer after switching off.</p> <p><b>!Attention!</b> The roller shutter slat could unwind itself due to the initial tension within the drive system!</p> <p>Ensure correct direction of rotation of the cord pulley, because the cord can wind up even with incorrect direction of rotation to the cord pulley!</p> <p>The roller shutter should be within 5 seconds to the top!</p> 	
20		<p><b>Setting of the lower end position</b></p> <p>Press DOWN-Button, until the desired lower end position is reached and the cord is not yet loose.</p> <p>Moving back or moving in short boosts is allowed.</p>	
30		<p>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.</p> <p><b>Attention:</b> Pressing the buttons not long enough the position will not be learned.</p> <p>The setting mode is exited.</p> <p style="text-align: right;">*Depending on test cable</p>	
<p><b>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.</b></p>			

## 2.6. Setting Switch-off-Mode 2 (with micro switch and switch) – For all types with roller shutter box at the bottom

(Upper end position via torque detection / lower end position set)

Step No.	Note	Operation	Check
	<p><b>Important:</b></p> <ul style="list-style-type: none"> <li>- It must always first be taught the upper end position.</li> <li>- If the drive switches off due to a malfunction (too fast increase of forces) before reaching the end point, it has to be set into learning mode again.</li> </ul>		
10		<p><b>Setting of the upper end position</b></p> <p>Press UP-Button, until the upper end position is reached and switches off automatically via the torque detection. Keep pressing the button for at least 1 sec. longer after switching off.</p> <p><b>!Attention!</b> The roller shutter slat could unwind itself due to the initial tension within the drive system!</p> <p>Ensure correct direction of rotation of the cord pulley, because the cord can wind up even with incorrect direction of rotation to the cord pulley!</p> <p>The roller shutter should be within 5 seconds to the top!</p> 	
20		<p><b>Setting of the lower end position</b></p> <p>Press DOWN-button, until the desired lower end position is reached and the cord is not yet loose.</p> <p>Moving back or moving in short boosts is allowed.</p>	
30		<p>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.</p> <p><b>Attention:</b> Pressing the buttons not long enough the position will not be learned.</p> <p>The setting mode is being exited.</p>	
<p><b>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.</b></p>			

### 3. Setting Instructions - Type: DGU, DGSU, DSIGU, DSIU, DSU

The drive has 2 different shutdown-modes; the selection takes place automatically via the setting.

#### 3.1. Overview Switch-off-Mode 2 – Standard Setting

<p><b>Upper end position via torque detection (roller shutter moves into top end position) / lower end position set</b></p> <p>The upper end position is being readjusted automatically, the lower end position stays fix.</p>	
--	--

#### 3.2. Overview Switch-off-Mode 4 – Additional Setting Options

<p><b>Upper end position set / lower end position set</b></p> <p>An automatic readjustment of the end positions does not take place.</p>	
--	--

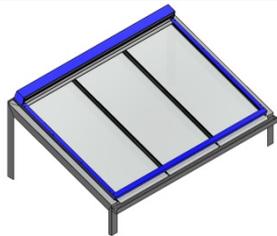
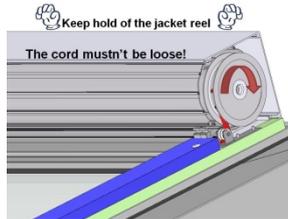
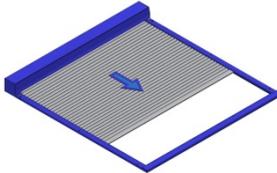
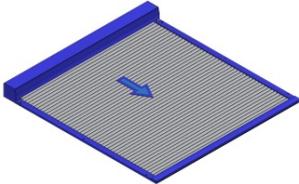


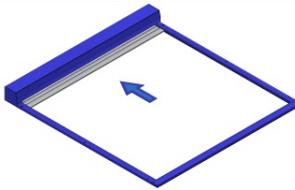
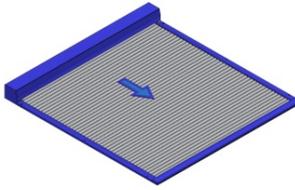
**Important! Adhere to the sequence, first the upper and then the lower end position has to be taught.**

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

### 3.3. Setting Switch-off-Mode 2 (with test cable) – Standard Setting

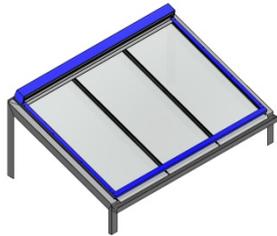
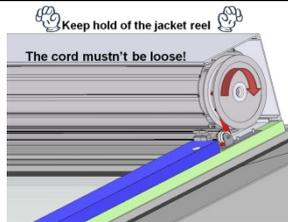
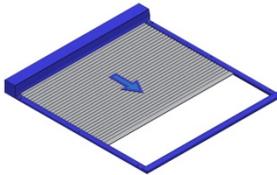
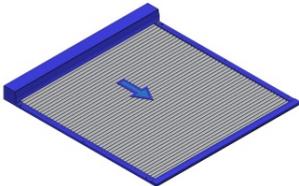
(Upper end position via torque detection / lower end position set)

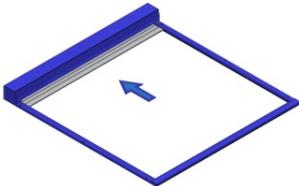
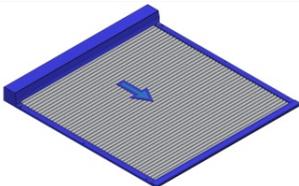
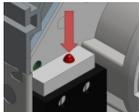
Step No.	Note	Operation	Check
	<b>Important:</b> <ul style="list-style-type: none"> <li>- It must always first be taught the upper end position.</li> <li>- If the drive switches off due to a malfunction (too fast increase of forces) before reaching the end point, it has to be set into learning mode again.</li> </ul>		
		<b>Prerequisites:</b> <ul style="list-style-type: none"> <li>- Roller shutter box, guide rails, guiding support and panel are attached</li> <li>- The pull cord is completely threaded up and fixed to the cord pulley</li> <li>- The roller shutter is wound to the shaft</li> </ul>	
10		<b>Preload roller shutter system</b> <ul style="list-style-type: none"> <li>- Keep hold of roller curtain.</li> <li>- Press DOWN-button and let the system move downwards until the cord is slightly tensioned and no longer loose</li> </ul> <ul style="list-style-type: none"> <li>- Release the roller curtain and let the roller shutter move all the way down until the panel.</li> <li>- Stop descending.</li> </ul> <p>Now the system has been pretension so that the roller shutter can just run out.</p>	 
20		<b>Set power reserve in DOWN-direction</b> <p>Now the system has to be additionally tensioned to have a power reserve.</p> <ul style="list-style-type: none"> <li>- Press Down-button and let the roller shutter move against the panel.</li> </ul> <p>A <u>maximum of 5 revolutions</u> should be additionally tensioned!</p> <p>Since the motor revolutions are not visible there are two ways to check:</p> <ol style="list-style-type: none"> <li>1. The environment is quiet and the clicking of the freewheel in the shaft can be heard. Every click means one revolution. So 5 x click = 5 revolution.</li> </ol> <p style="text-align: center;">or</p> <ol style="list-style-type: none"> <li>2. The clicking cannot be heard: then run the engine max. 25 sec. (= 5 revolution).</li> </ol> <ul style="list-style-type: none"> <li>- Stop descending.</li> <li>- Let the roller shutter run approx. 1 meter back and forth again and check by hand whether there is enough tension to move the curtain safely and completely.</li> </ul>	

Step No.	Note	Operation	Check
30		<b>Setting of the upper end position</b> Press UP-Button, until the upper end position is reached and switches off automatically via the torque detection. Keep pressing the button for at least 1 sec. longer after switching off.	
40		<b>Setting of the lower end position</b> Press DOWN-Button, until the desired lower end position is reached.  Moving back or or moving in short impulses is allowed.	
50		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.  <b>Attention:</b> Pressing the buttons not long enough the position will not be learned.  The setting mode is exited.	<p style="text-align: right;">*Depending on test cable</p>
<b>The learning of the forces happens automatically when running continuously from one end position to the other. Perform this first test run only after completing all installation.</b>			

### 3.4. Setting Switch-Off Mode 2 (with micro switch and switch) – Standard Setting

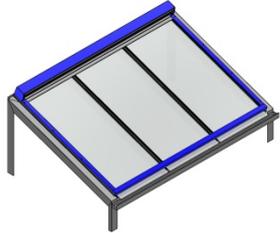
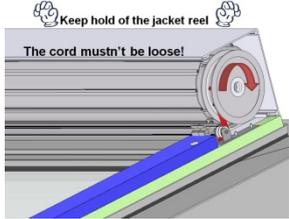
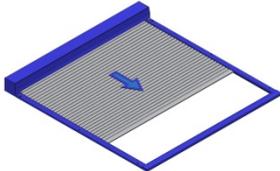
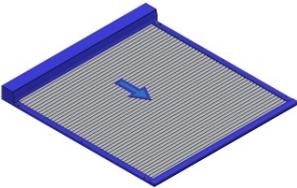
(Upper end position via torque detection / lower end position set)

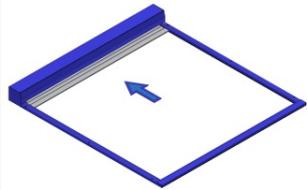
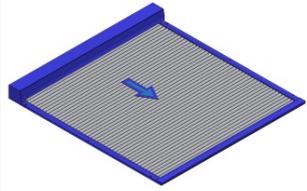
Step No.	Note	Operation	Check
	<b>Important:</b> <ul style="list-style-type: none"> <li>- It must always first be taught the upper end position.</li> <li>- If the drive switches off due to a malfunction (too fast increase of forces) before reaching the end point, it has to be set into learning mode again.</li> </ul>		
		<b>Prerequisites:</b> <ul style="list-style-type: none"> <li>- Roller shutter box, guide rails, guiding support and panel are attached</li> <li>- The pull cord is completely threaded up and fixed to the cord pulley</li> <li>- The roller shutter is wound to the shaft</li> </ul>	
10		<b>Preload roller shutter system</b> <ul style="list-style-type: none"> <li>- Keep hold of roller curtain.</li> <li>- Press DOWN-button and let the system move downwards until the cord is slightly tensioned and no longer loose.</li> </ul> <ul style="list-style-type: none"> <li>- Release the roller curtain and let the roller shutter move all the way down until the panel.</li> <li>- Stop descending.</li> </ul> <p>Now the system has been pretension so that the roller shutter can just run out.</p>	 
20		<b>Set power reserve in DOWN-direction</b> <p>Now the system has to be additionally tensioned to have a power reserve.</p> <ul style="list-style-type: none"> <li>- Press Down-button and let the roller shutter move against the panel.</li> </ul> <p>A <u>maximum of 5 revolutions</u> should be additionally tensioned!</p> <p>Since the motor revolutions are not visible there are two ways to check:</p> <ol style="list-style-type: none"> <li>1. The environment is quiet and the clicking of the freewheel in the shaft can be heard. Every click means one revolution. So 5 x click = 5 revolution.</li> </ol> <p style="text-align: center;">or</p> <ol style="list-style-type: none"> <li>2. The clicking cannot be heard: then run the engine max. 25 sec. (= 5 revolution).</li> </ol> <ul style="list-style-type: none"> <li>- Stop descending.</li> <li>- Let the roller shutter run approx. 1 meter back and forth again and check by hand whether there is enough tension to move the curtain safely and completely.</li> </ul>	

Step No.	Note	Operation	Check
30		<b>Setting of the upper end position</b> Press UP-Button, until the upper end position is reached and switches off automatically via the torque detection. Keep pressing the button for at least 1 sec. longer after switching off.	
40		<b>Setting of the lower end position</b> Press DOWN-Button until the desired lower end position is reached.  Moving back or moving in short impulses is allowed.	
50	 	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.  <b>Attention:</b> Pressing the buttons not long enough the position will not be learned.  The setting mode is being exited.	
<b>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.</b>			

### 3.5. Setting Switch-off-Mode 4 (with test cable) – Additional Setting Options

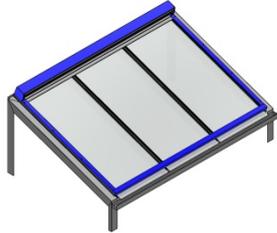
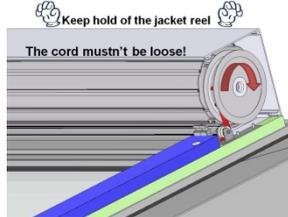
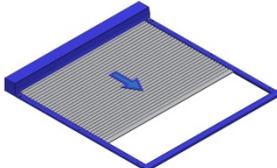
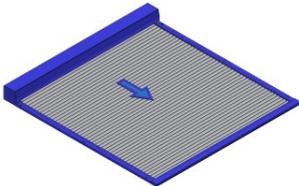
(Upper end position set / lower end position set)

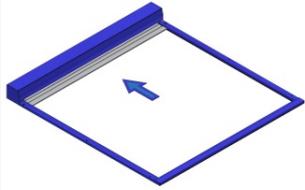
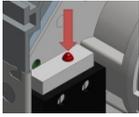
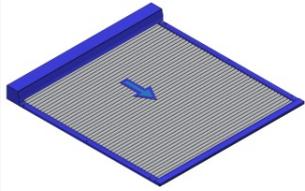
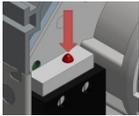
Step No.	Note	Operation	Check
	<b>Important:</b> <ul style="list-style-type: none"> <li>- It must always first be taught the upper end position.</li> <li>- If the drive switches off due to a malfunction (too fast increase of forces) before reaching the end point, it has to be set into learning mode again.</li> </ul>		
		<b>Prerequisites:</b> <ul style="list-style-type: none"> <li>- Roller shutter box, guide rails, guiding support and panel are attached</li> <li>- The pull cord is completely threaded up and fixed to the cord pulley</li> <li>- The roller shutter is wound to the shaft</li> </ul>	
10		<b>Preload roller shutter system</b> <ul style="list-style-type: none"> <li>- Keep hold of roller curtain.</li> <li>- Press DOWN-button and let the system move downwards until the cord is slightly tensioned and no longer loose.</li> </ul> <ul style="list-style-type: none"> <li>- Release the roller curtain and let the roller shutter move all the way down until the panel.</li> <li>- Stop descending.</li> </ul> <p>Now the system has been pretension so that the roller shutter can just run out.</p>	 
20		<b>Set power reserve in DOWN-direction</b> <p>Now the system has to be additionally tensioned to have a power reserve.</p> <ul style="list-style-type: none"> <li>- Press Down-button and let the roller shutter move against the panel.</li> </ul> <p>A <u>maximum of 5 revolutions</u> should be additionally tensioned!</p> <p>Since the motor revolutions are not visible there are two ways to check:</p> <ol style="list-style-type: none"> <li>1. The environment is quiet and the clicking of the freewheel in the shaft can be heard. Every click means one revolution. So 5 x click = 5 revolution.</li> </ol> <p style="text-align: center;">or</p> <ol style="list-style-type: none"> <li>2. The clicking cannot be heard: then run the engine max. 25 sec. (= 5 revolution).</li> </ol> <ul style="list-style-type: none"> <li>- Stop descending.</li> <li>- Let the roller shutter run approx. 1 meter back and forth again and check by hand whether there is enough tension to move the curtain safely and completely.</li> </ul>	

Step No.	Note	Operation	Check
30		<p><b>Setting of the upper end position</b></p> <p>Press UP-Button, until the roller 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 behavior.</p> <p>Moving back or moving in short impulses is allowed.</p>	
40		<p>Press both buttons simultaneously or the programming button for ca. 2 sec. in order to learn the upper end position. As a learning confirmation it twitches twice.</p> <p><b>Attention:</b> Pressing the buttons not long enough the position will not be learned.</p>	
50		<p><b>Setting of the lower end position</b></p> <p>Press DOWN-Button until the desired lower end position is reached.</p> <p>Moving back or moving in short impulses is allowed.</p>	
60		<p>Press both buttons simultaneously or the programming button for ca. 2 sec. in order to learn the lower end position. As a learning confirmation it twitches twice.</p> <p><b>Attention:</b> Pressing the buttons not long enough the position will not be learned.</p> <p>The setting mode is being exited.</p>	
*Depending on test cable model			
<p><b>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.</b></p>			

### 3.6. Setting Switch-off-Mode 4 (with micro switch and switch) – Additional Setting Option

(Upper end position set / lower end position set)

Step No.	Note	Operation	Check
	<b>Important:</b> <ul style="list-style-type: none"> <li>- It must always first be taught the upper end position.</li> <li>- If the drive switches off due to a malfunction (too fast increase of forces) before reaching the end point, it has to be set into learning mode again.</li> </ul>		
		<b>Prerequisites:</b> <ul style="list-style-type: none"> <li>- Roller shutter box, guide rails, guiding support and panel are attached</li> <li>- The pull cord is completely threaded up and fixed to the cord pulley</li> <li>- The roller shutter is wound to the shaft</li> </ul>	
10		<b>Preload roller shutter system</b> <ul style="list-style-type: none"> <li>- Keep hold of roller curtain.</li> <li>- Press DOWN-button and let the system move downwards until the cord is slightly tensioned and no longer loose.</li> </ul> <ul style="list-style-type: none"> <li>- Release the roller curtain and let the roller shutter move all the way down until the panel.</li> <li>- Stop descending.</li> </ul> <p>Now the system has been pretension so that the roller shutter can just run out.</p>	 
20		<b>Set power reserve in DOWN-direction</b> <p>Now the system has to be additionally tensioned to have a power reserve.</p> <ul style="list-style-type: none"> <li>- Press Down-button and let the roller shutter move against the panel.</li> </ul> <p>A <u>maximum of 5 revolutions</u> should be additionally tensioned!</p> <p>Since the motor revolutions are not visible there are two ways to check:</p> <ol style="list-style-type: none"> <li>1. The environment is quiet and the clicking of the freewheel in the shaft can be heard. Every click means one revolution. So 5 x click = 5 revolution.</li> </ol> <p style="text-align: center;">or</p> <ol style="list-style-type: none"> <li>2. The clicking cannot be heard: then run the engine max. 25 sec. (= 5 revolution).</li> </ol> <ul style="list-style-type: none"> <li>- Stop descending.</li> <li>- Let the roller shutter run approx. 1 meter back and forth again and check by hand whether there is enough tension to move the curtain safely and completely.</li> </ul>	

Step No.	Note	Operation	Check
30		<p><b>Setting of the upper end position</b></p> <p>Press UP-Button, until the roller 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 behavior.</p> <p>Moving back or moving in short impulses is allowed.</p>	
40	 	<p>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.</p> <p><b>Attention:</b> Pressing the buttons not long enough the position will not be learned.</p>	
50		<p><b>Setting of the lower end position</b></p> <p>Press DOWN-Button until the desired lower end position is reached.</p> <p>Moving back or moving in short impulses is allowed.</p>	
60	 	<p>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.</p> <p><b>Attention:</b> Pressing the buttons not long enough the position will not be learned.</p> <p>The setting mode is being exited.</p>	
<p><b>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.</b></p>			

#### 4. Copyright/ References to this documentation

The copyright (copyright ©) for the present documentation is being kept by Schanz Rollladensysteme GmbH as well as partially by the suppliers of the sub vendor documentation.

The containing information is solely designed for the operating companies of our roller shutters. It may not be changed, extended, duplicated, saved on data linked institutions and spread without our written agreement nor should it be used for other purposes. The containing information in this document makes no claim to be complete. We have done everything to reflect the content concerning our products to be correctly and up to date. However a warranty for the correctness of the documentation cannot be given. Especially photographs and other images can contain components which do not belong to the standard scope of delivery (options), or which have been changed in the meantime. Changes in connection with a further development as well as the „state of technology“ are subject to alteration. Copyright © Schanz Rollladensysteme GmbH, 2018