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# Setting Instructions

## Electronic Motor



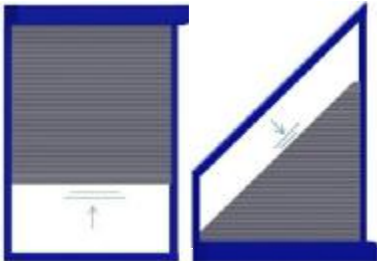
This Operating Instruction contains important safety instructions. For the safety of persons it is important to **follow** these instructions. This instruction should be kept.

## Setting the drive into learning mode

### - Setting with test cable

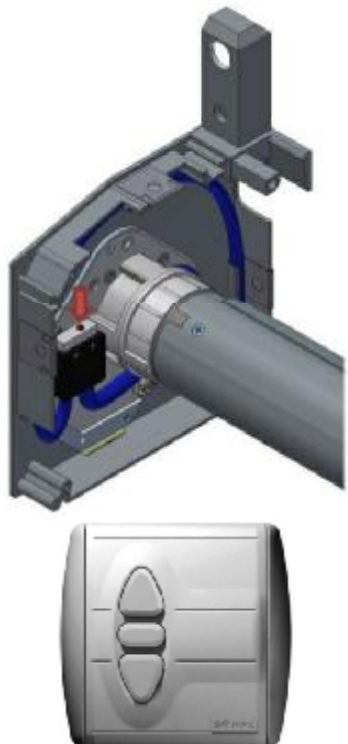



The motor is delivered in learning mode. If a fault occurs during the programming or if an already programmed drive should be installed in a different position or changes were made to the roller shutter, then the drive can be set again into learning mode by pressing either both buttons or the programming button (6 sec.). 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.

Set the drive into learning mode (all defined values will be deleted)	
<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 minute. This has to be ignored.</p> <p><b>Note: This step can be ignored when setting the roller shutter for the first time as the drive is in learning mode upon delivery.</b></p>	

### - Setting with micro switch and switch


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 in learning:

Set the drive into learning mode (all defined values will be deleted)	
<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 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>	
	<p><b>Important! Adhere to the sequence, first the upper and then the lower float stop has to be taught!</b></p>

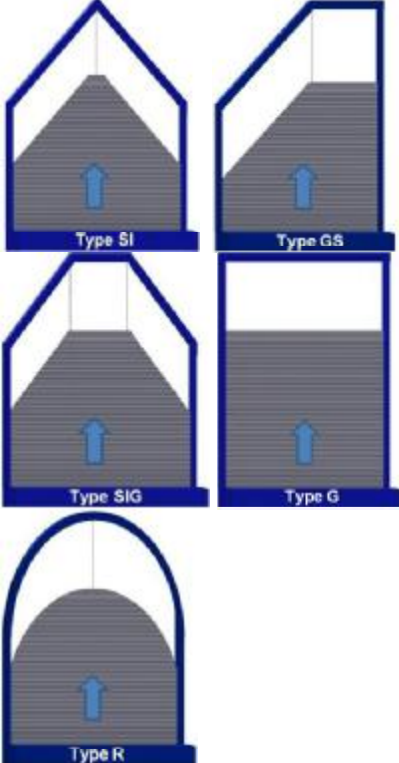
## Setting Instructions - Type: S, GS, SI, SIG, R, G

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

### Mode 1

<p><b>Upper float stop via turning moment / end stop bottom via shaft stop</b></p> <p>An automatic readjustment occurs from both end stops independently.</p>	
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### Mode 2

<p><b>End stop top via turning moment/ set end stop bottom</b></p> <p>An automatic readjustment occurs from the top end stop.</p>	
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**The drive is in learning mode.**

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.

The pulse failure detection of the spring is not yet active.



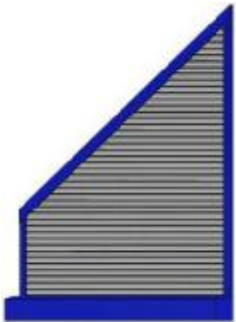

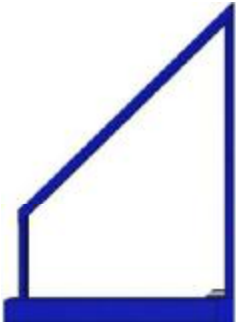
If the drive switches off due to a malfunction (too fast increase of force) before reaching the endpoint, it has to be set into learning mode again.



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





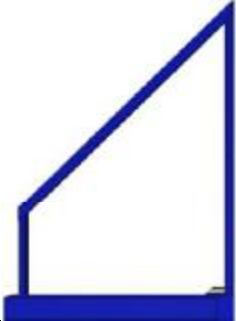
### Setting Mode 1 – with test cable

(Upper float stop via turning moment / end stop bottom via shaft stop) – Automatic setting

1.1		<p>Press UP-Button</p> <p>until the upper endpoint is reached and the drive switches off, keep pressing the button for at least 1 sec. longer after switching off.</p> <div style="text-align: center;">  </div>	
1.2		<p>Press DOWN-Button</p> <p>until the lower endpoint 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.</p>	
1.3 The lower position is learned automatically.			
<b>The learning of the forces happens automatically when running continuously from one switch-off point to the other.</b>			





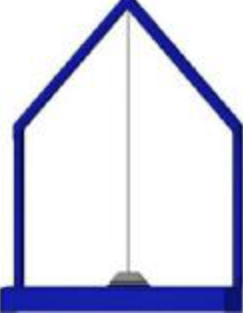

### Setting Mode 1 – with micro switch and switch

(Upper float stop via turning moment / end stop bottom via shaft stop) – Automatic setting

1.1		<p>Press UP-Button</p> <p>until the upper endpoint is reached and the drive switches off, keep pressing the button for at least 1 sec. longer after switching off.</p> <div style="text-align: center;">  </div>	
1.2		<p>Press DOWN-Button</p> <p>until the lower endpoint 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.</p>	
1.3 The bottom position is learned automatically.			
<b>The learning of the forces happens automatically when running continuously from one switch-off point to the other.</b>			





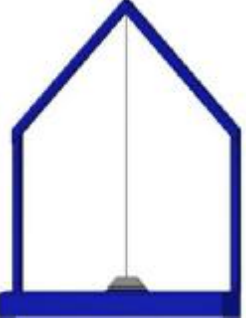



## Setting Mode 2 – with test cable

(End stop top via turning moment/ set end stop bottom)

2.1		<p>Press UP-Button</p> <p>until the upper endpoint is reached and the drive switches off, keep pressing the button for at least 1 sec, longer after switching off.</p> <div data-bbox="737 470 1013 638">  <p><b>!Attention!</b> The roller shutter will could unroll itself due to the initial tension within the drive system! Ensure correct direction of rotation of the cord pulley. Reverse the cord coil when up axis with (incorrect direction of rotation to the cord pulley). The roller shutter should be within 5 seconds to the top!</p> <p>Up</p> </div>	
2.2		<p>Press DOWN-Button</p> <p>until the desired position is reached. The end rod is in the area of the end stop, the cord is not yet loose.</p>	
<p>Moving back or moving in short impulses is allowed.</p>			
2.3		<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><b>The learning of the forces happens automatically when running continuously from one switch-off point to the other.</b></p>			

\*Depending on test cable model


**Setting Mode 2 – with micro switch and switch**  
 (End stop top via turning moment/ set end stop bottom)

2.1		<p>Press UP-Button</p> <p>until the upper endpoint is reached and the drive switches off, keep pressing the button for at least 1 sec. longer after switching off.</p> <div style="text-align: center;"> <p><b>!Attention!</b></p> <p>The roller shutter was closed several times due to the initial learning 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> </div> 	
2.2		<p>Press DOWN-Button</p> <p>until the desired position is reached. The end rod is in the area of the end stop, the cord is not yet loose.</p>	
<p>Moving back or moving in short impulses is allowed.</p>			
2.3		<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><b>The learning of the forces happens automatically when running continuously from one switch-off point to the other.</b></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>		
	<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>		

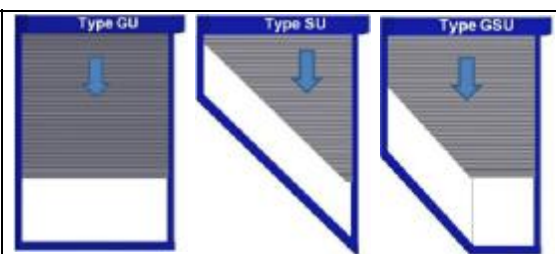
## Setting Instructions - Type: GU, SU, GSU, SIU, SIGU, RU

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


### Mode 1

<p><b>Upper and lower float stop via turning moment</b></p> <p>Both float stops are being readjusted automatically.</p>	
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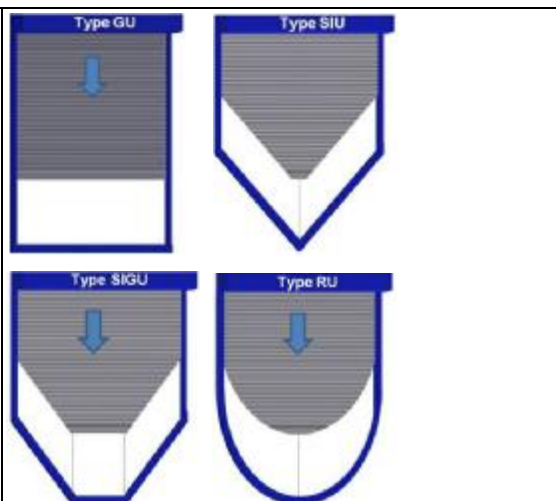
### Mode 2

<p><b>Upper float stop via turning moment / set float stop bottom</b></p> <p>The upper float stop is being readjusted automatically, the lower float stop stays fix.</p>	
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### Mode 3

<p><b>Set float stop top / Lower float stop via turning moment</b></p> <p>The lower float stop is being readjusted automatically, the upper float stop stays fix.</p>	
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### Mode 4


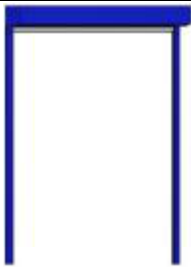


<p><b>Set float stop top / set float stop bottom</b></p> <p>An automatic readjustment does not take place. Both points stay fix.</p>	
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**Important!** Adhere to the sequence, first the upper and then the lower float stop has to be taught!


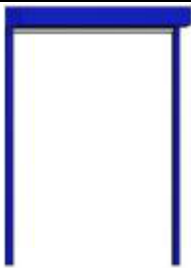


### Setting Mode 1 – with test cable

(Upper and lower float stop via turning moment) – automatic setting

1.1		<p>Press UP-Button</p> <p>until the upper endpoint is reached and the drive switches off, keep pressing the button for at least 1 sec. longer after switching off</p>	
<p>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.</p>			
1.2		<p>Press DOWN-Button</p> <p>until the lower endpoint is reached and the drive switches off, keep pressing the button for at least 1 sec. longer after switching off</p>	
<p>The learning of the forces happens automatically when running <u>continuously</u> from one switch-off point to the other.</p>			

### Setting Mode 1 – with micro switch and switch






(Upper and lower float stop via turning moment) – automatic setting

1.1		<p>Press UP-Button</p> <p>until the upper endpoint is reached and the drive switches off, keep pressing the button for at least 1 sec. longer after switching off</p>	
<p>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.</p>			
1.2		<p>Press DOWN-Button</p> <p>until the lower endpoint is reached and the drive switches off, keep pressing the button for at least 1 sec. longer after switching off</p>	
<p>The learning of the forces happens automatically when running <u>continuously</u> from one switch-off point to the other.</p>			








### Setting Mode 2 - Standard for GU – with test cable

(Upper float stop via turning moment / set float stop bottom)

2.1		<p>Press UP-Button</p> <p>until the upper endpoint is reached and the drive switches off, keep pressing the button for at least 1 sec. longer after switching off</p>	
2.2		<p>Press DOWN-button</p> <p>Until the desired position is reached</p> <p>Only for type GU: Hangers lie outside, the spring has no pressure yet.</p>	
Moving back or moving in short impulses is allowed.			
2.3		<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>	
The learning of the forces happens automatically when running <u>continuously</u> from one switch-off point to the other.			






### Setting Mode 2 – Standard for GU – with micro switch and switch

(Upper float stop via turning moment / set float stop bottom)

2.1		<p>Press UP-Button</p> <p>until the upper endpoint is reached and the drive switches off, keep pressing the button for at least 1 sec. longer after switching off</p>	
2.2		<p>Press DOWN-button</p> <p>Until the desired position is reached</p> <p>Only for type GU: Hangers lie outside, the spring has no pressure yet.</p>	
Moving back or moving in short impulses is allowed.			
2.3		<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>	
The learning of the forces happens automatically when running <u>continuously</u> from one switch-off point to the other.			






### Setting Mode 3 – with test cable

(Set float stop top / Lower float stop via turning moment)

3.1		<p>Press UP-button</p> <p>Until the roller shutter end rod has reached the desired upper position. However it has to stand stable within the guiding so that it does not leave it when changing the winding behaviour.</p>	
<p>Moving back or moving in short impulses is allowed.</p>			
3.2		<p>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.</p> <p><b>Attention:</b> Pressing the buttons not long enough the position will not be learned.</p>	
3.3		<p>Press DOWN-Button</p> <p>until the lower endpoint is reached and the drive switches off, keep pressing the button for at least 1 sec. longer after switching off</p>	
<p>The learning of the forces happens automatically when running continuously from one switch-off point to the other.</p>			


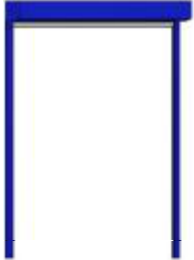




### Setting Mode 3 – with micro-switch and switch

(Set float stop top / Lower float stop via turning moment)

3.1		<p>Press UP-button</p> <p>Until the roller shutter end rod has reached the desired upper position. However it has to stand stable within the guiding so that it does not leave it when changing the winding behaviour.</p>	
<p>Moving back or moving in short impulses is allowed.</p>			
3.2		<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>	
3.3		<p>Press DOWN-Button</p> <p>until the lower endpoint is reached and the drive switches off, keep pressing the button for at least 1 sec. longer after switching off.</p>	
<p>The learning of the forces happens automatically when running continuously from one switch-off point to the other.</p>			











### Setting Mode 4 – with test cable

(Set float stop top / set float stop bottom)

4.1		<p>Press UP-button</p> <p>Until the roller shutter end rod has reached the desired upper 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>			
4.2		<p>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.</p> <p><b>Attention:</b> Pressing the buttons not long enough the position will not be learned.</p>	
4.3		<p>Press DOWN-button</p> <p>Only for type GU: Hangers lie outside, the spring has no pressure yet.</p>	
<p>Moving back or moving in short impulses is allowed.</p>			
4.4		<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 learning of the forces happens automatically when running <u>continuously</u> from one switch-off point to the other.</p>			

\*Depending on test cable model

### Setting Mode 4 – with micro-switch and switch (Set float stop top / set float stop bottom)

4.1		<p>Press UP-button</p> <p>Until the roller shutter end rod has reached the desired upper position, However it has to stand stable within the guiding so that it does not leave it when changing the winding behavior.</p>	
Moving back or moving in short impulses is allowed.			
4.2	 	<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>	
4.3		<p>Press DOWN-button</p> <p>Only for type GU: Hangers lie outside, the spring has no pressure yet.</p>	
Moving back or moving in short impulses is allowed.			
4.4	 	<p>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.</p> <p><b>Attention:</b> Pressing the buttons not long enough the position will not be learned.</p>	
The learning of the forces happens automatically when running <u>continuously</u> from one switch-off point to the other.			
	<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>		
	<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>		

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