

Product Datasheet

GEIGER-SoftPerfection/-S – For increased efficiency in the assembly of rolling shutters ...



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Problem and solution

Assembly efficiency

PROBLEM:

The installation of rolling shutters just takes too long. Again and again the final positions have to be adjusted until the fit is perfect.

SOLUTION:

The **GEIGER-SoftPerfection** ensures an extremely fast programming: Plug & Play. This saves assembly time and money.

Life time of the rolling shutter system

PROBLEM:

Rolling shutter systems are exposed to extreme conditions. Many shutter drives set the curtain under permanent tensile stress: this can over time damage the system.

SOLUTION:

The **GEIGER-SoftPerfection** has an intelligent curtain protection function. It protects the blind from unnecessary tension. The shutter has just a longer life time and keeps looking its best.

Everything from one source

PROBLEM:

When motors and accessories come from different manufacturers, assembly problems, operational malfunction or even damage might be resulting in individual cases.

SOLUTION:

We provide you on request with the **GEIGER anti-lift device** which is especially adapted to the **GEIGER SoftPerfection**.

GEIGER anti-lift device



Available with 2 or 3 elements for mini and maxi profiles

Made by GEIGER

GEIGER relies on Germany as production location: the **GEIGER-SoftPerfection**, like all GEIGER motors, are developed and produced in Germany. This situation allows an optimal combination of R & D, manufacturing processes and quality management.

Our clients benefit from

- low noise motors
- low energy consumption, a big plus factor today
- low heating of the engine which means a longer period of time for adjustment purposes
- high quality radio system



Design and features

The **GEIGER-SoftPerfection** meets two market requirements in a quite unusual way:

- ▶ **Installation with Plug & Play**
- ▶ **Protection of the rolling shutter system with the Soft function**

... a well-conceived system: **Plug & Play & Soft**

Plug & Play

The **GEIGER-SoftPerfection** simplifies the installation significantly. Only one operation to the upper and the lower end stop with torque cut-off.

Done! Plug & Play!

GEIGER-Soft-system

Soft intelligence

The **GEIGER-SoftPerfection** has a very sensitive intelligence which provides the typical GEIGER „soft shutdown“ in the end positions, in order to achieve optimal protection of the curtain.

Soft-position

Torque shutdowns stress the rolling shutter system more than position shutdowns.

Therefore, the **GEIGER-SoftPerfection** uses torque cut-offs only when absolute necessary. The GEIGER Soft-position ensures that the hanging stops a few millimetres before reaching the upper end position. The hanging is thus optimally protected.

Two exceptions: the programming runs and the reference runs after 50 cycles.

After installation, there are no further torque cut-offs in the lower end position.

When the end stops are reached the curtain is no longer submitted to tensile loading – in 98% of the cases. Damages to the system are thus avoided. Moreover, a freezing over night of the end bar in the upper end position can also be prevented.

Synchronous position in the upper end position

It is a common problem: in case of motors that do not determine the upper end position with torque cut-off in each cycle, the end bars of the different rolling shutters are often positioned at different levels.

The Geiger motor intelligence ensures that when rolling shutters of different sizes are mounted next to the other, the bottom laths are positioned on the same level. This is a really nice visual upgrade for the house façade for example on balconies with windows and patio doors.

Functions

Programming the end positions

The programming of the end positions is accomplished through a very sensitive torque cut-off.

Checking the end positions

The correction of the end positions is also accomplished through a sensitive torque cut-off with reference runs after the first 5 and 20 cycles and then after 50 cycles.

Between these reference runs the curtain stops a few millimetres before the shutter box is reached in the upper end position so that there is no permanent tensile load on the curtain.

Antifreeze protection

The **GEIGER-SoftPerfection** is equipped with an antifreeze protection in UP direction. The situation «curtain frozen to the window sill overnight» is recognized by the system and the curtain will not be damaged.

The GEIGER-Soft position also prevents the contact between bottom bar and box so that a freezing problem in the DOWN direction is excluded.

Upon request and in coordination with our customers, we offer the individual configuration of the motor control so that an antifreeze safety system triggers when the curtain is frozen inside the box. Feel free to contact us.

Obstacle detection

The **GEIGER-SoftPerfection** has an obstacle detection in UP direction and a blocking detection in DOWN direction.

An obstacle detection in DOWN direction is available upon request and in coordination with our customers. This provides an extra safety protection especially in relation with balcony and patio doors.

Intrusion prevention system: SoftPerfection-S

We offer a special system: the **GEIGER-SoftPerfection-S** which improves the burglar resistance of the rolling shutters.

Differing from the **SoftPerfection**, there is a torque cut-off in the lower end position **at each cycle**. This means that the anti lift device is **always** operational in the lower end position. This makes it difficult, if not impossible, for intruders to lift the shutter up.

All other characteristics of the **GEIGER-SoftPerfection-S** are similar to those of the **GEIGER-SoftPerfection**: cloth protection in the upper end position, programming/deleting of the end stops, antifreeze protection and obstacle detection.

Quick Guide to Commissioning



Adjusting the end positions:

- | | | |
|--|--|------------------|
| 1. Connect the connecting cable to the motor | 2. Move the shutter to both end positions once (any order will do) | 3. READY! |
|--|--|------------------|

Delete the end positions:

- | | | |
|--|---|------------------|
| 1. Move the curtain to any position of your choice
Please note: respect a distance of approx. 50 cm from the end positions | 2. Operate as follows:
UP – DOWN – UP - UP
Please note: a break of at least 5 seconds must be respected between the different runs | 3. READY! |
|--|---|------------------|

SOLIDline motor heads

All **SOLIDline** motors are available with four different motor heads:

- The extremely narrow **KS motor head** made of plastic is best suited for all GEIGER fixation systems in order to provide quick and easy assembly/disassembly with low space requirement.
- The extremely thin **COM motor head** – the cloth can also be wound on the motor head – offers the possibility to optimize the fabric width for screens and facade awnings. The sun protection system can be designed independently from the selected drive. Light slots should be minimized or avoided altogether – as in ZIP screens.
- The **SOC motor head** is optimally designed for installation with star shaped fixation systems. The motor head is universally applicable in the rolling shutter area also together with traditional fastening systems.
- With the **SIL motor head** GEIGER has found a new solution in order to prevent noise emissions. Due to special bearings with rubber inserts noise and vibration are not transmitted in the system and the masonry.

Dimensions and technical data

Specifications series MODULARline (GR45..)

	GR4510	GR4520
Voltage	230V~/50 Hz	230V~/50 Hz
Current	0,47 A	0,63 A
Cos Phi (cosφ)	>0,95	
Inrush current (factor)	x 1,2	
Power	105 W	140 W
Torque	10 Nm	20 Nm
Speed of rotation	16 rpm	
Protection type	IP 44	
Total length	400 mm	430 mm
Operating type	S2 4 min	S2 5 min
Diameter	45 mm	
Weight	approx. 1,5 kg	approx. 1,7 kg
Storage temperature/Humidity	T = -15°C .. +70°C / dry and non-condensing place	

Subject to technical modifications. Please find information to the ambient temperature range of our GEIGER motors under www.geiger.de



Specifications series GEIGER SOLIDline-KS (GU45..)

	GU4510	GU4520	GU4530	GU4540	GU4550 ³⁾
Voltage			230V~/50 Hz		
Current	0,47 A	0,63 A	0,8 A	1,0 A	1,0 A
Cos Phi (cosφ)	>0,95				
Inrush current (factor)	x 1,2				
Power	105 W	140 W	180 W	220 W	220 W
Torque	10 Nm	20 Nm	30 Nm	40 Nm	50 Nm
Speed of rotation	16 rpm	16 rpm	16 rpm	16 rpm	12 rpm
Protection type	IP 44				
Total length	516,5 mm	546,5 mm	566,5 mm	586,5 mm	586,5 mm
Operating type	S2 4 min	S2 5 min	S2 4 min	S2 4 min	S2 4 min
Sound pressure level²⁾	39 dB(A)	41 dB(A)	41 dB(A)	43 dB(A)	-
Diameter	45 mm				
Weight	approx. 1,90 kg	approx. 2,20 kg	approx. 2,40 kg	approx. 2,70 kg	approx. 2,70 kg
Storage temperature/Humidity	T = -15°C .. +70°C / dry and non-condensing place				

¹⁾ **SOLIDline-COM:** + 3,5 mm / **SOLIDline-SOC:** + 3 mm / **SOLIDline-SIL:** ± 0 mm (without trunnion)

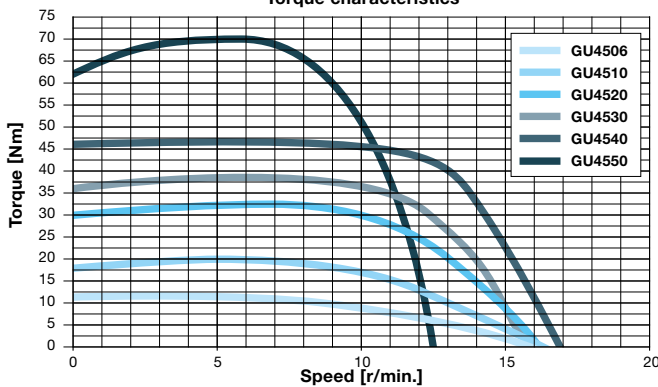
²⁾ The average sound pressure level data are intended for guidance only. The values were determined by GEIGER at a distance of 1 m, with a hanging motor at idle speed and averaged over 10 seconds. There is no reference to any specific test standard.

³⁾ GU4550 is only available with motor head KS or SOC and CE-certification.

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Torque characteristics



Torque shutter

