



Product Datasheet

GEIGER-SOLIDline EasyScreen – Maximum safety and protection for the textile sun protection

Introduction

Commissioning of sun protection drives is now considerably simplified with the new EasyScreen electronic limit stop from GEIGER.

The well-known and proven Easy technology has been specially adapted for the textile sun protection. Dust, wear and aging have no further influence on the motor functions.

The motor and the installation achieve optimal results to the utmost satisfaction of our customers.

Problem and solution

Assembly efficiency

PROBLEM:

Because the end positions have to be adjusted again and again until they fit, the installation of vertical awnings and screens often takes too much time.

SOLUTION:

The **GEIGER-SOLIDline EasyScreen** ensures an extremely fast and efficient programming: manual positioning or torque detection. This saves assembly time and money.

Lifetime of the sun protection

PROBLEM:

In case of a wind alarm, the sun protection does not reach the upper end position as the motor control that is particularly sensitive detects here an obstacle.

SOLUTION:

The **GEIGER-SOLIDline EasyScreen** has an obstacle detection in the UP direction that is not very sensitive. Should an obstacle be detected, the motor tries up to 15 times to reach the upper end position.

Everything from one source

PROBLEM:

Motors and accessories are used from different manufacturers. In some cases this might lead to assembly problems, operational malfunction or even damage.

SOLUTION:

On request we provide you with a wide range of fixation solutions and adaptors for the **GEIGER-SOLIDline EasyScreen**.

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SOLIDline EasyScreen

Application fields

- Screens
- Facade awnings
- Open style folding arm awnings

Made by GEIGER

GEIGER relies on Germany as production location: the **GEIGER SOLIDline**, like all GEIGER motors, is 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 and therefore an unusual long running time



Design and features

The SOLIDline EasyScreen meets several market requirements in a quite unusual way:

- ▶ **Installation with manual positioning**
 - ▶ **Safe retraction of the sun protection in case of wind alarm**
 - ▶ **Protection of the sun protection with the Soft-functions**
- ... a well-conceived system: **GEIGER-SOLIDline EasyScreen**

GEIGER-Soft-functions

Soft motor intelligence

The **GEIGER-SOLIDline EasyScreen** 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 sun protection system more than position shutdowns. Therefore, the **GEIGER-SOLIDline EasyScreen** uses torque shutdowns only when absolute necessary. Torque shutdowns in the upper end position are only made for the programming run and the reference runs after 50 cycles. After installation, there are no further torque shutdowns 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 overnight of an angle 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 shutdown in each cycle, the end bars of the different devices are often positioned at different levels.

The GEIGER motor intelligence ensures that when devices 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 facade 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 shutdown or through fixed positioning.

Checking the end positions

The correction of the end positions is also accomplished through a sensitive torque shutdown 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 reaching the upper end position so that there is no permanent tensile load on the curtain.

Setting the end positions

Note: when setting the end positions with a torque shutdown, stoppers are necessary.

The motor is preset at the factory with +/- 2,5 rotations. You can begin with the upper or lower end position.

Connect drive connecting cable with a setting cable

- ➊ Press UP and DOWN keys at the same time (motor jerks 1 x)
- ➋ Move curtain to the upper end position (alternative to the upper stop. Step ➌ is omitted)
- ➌ Press UP and DOWN keys at the same time (motor jerks 2 x)
- ➍ Move curtain to the lower end position
- ➎ Press UP and DOWN keys at the same time (motor jerks 3 x)

Ready! The setting process is completed.

Motor series SOLIDline

The **GEIGER SOLIDline motors** have been developed for the specific needs of the sun protection industry and the craft trade. The motor is characterized by:

- ▶ **Low noise emissions and extremely smooth operation**
- ▶ **Low power consumption and reduced operating costs**
- ▶ **Long service life and high reliability**

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** 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.



SOLIDline-KS



SOLIDline-COM

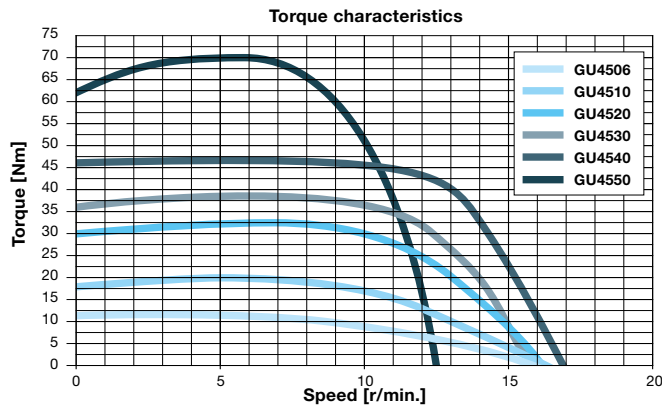


SOLIDline-SOC



SOLIDline-SIL

Technical data



Technical data of tubular motor SOLIDline-KS (GU45..)

	GU4510	GU4520	GU4530	GU4540	GU4550 ³⁾
Voltage	230V~/50Hz				
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	16 rpm	16 rpm	16 rpm	16 rpm	12 rpm
Protection class	IP 44				
Total length¹⁾	516,5 mm	546,5 mm	566,5 mm	586,5 mm	586,5 mm
Operating mode	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, SOC and SIL and CE-certification.

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



The name GEIGER Antriebstechnik is synonymous worldwide for drive solutions in the sun protection area.

Today we are with more than 300 employees one of the leading manufacturers of mechanical and electrical drives for Venetian blinds, awnings and rolling shutters.

GEIGER is a well-known, mid-sized company which offers worldwide drive components for the sun protection systems.

