



Product Datasheet

GEIGER-SoftPlusWireless –

The radio control motor with optimized protection of the cloth in the cassette awning



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Problem and solution

Focus on cloth protection – to enjoy a beautiful awning for many years

PROBLEM:

Take a brand new awning and after the first summer, the awning cloth is deformed in a wave-like form with curling edges. The customer is disappointed – justifiably so. The larger the awning, the more problems you might face.

SOLUTION:

The **GEIGER-SoftPlusWireless** reduces considerably the load on the awning. The cloth is significantly less exposed to tensions and stays „in shape“ much longer.

Cassette awnings securely closed

PROBLEM:

Customers often complain that the cassette awning does not close properly. Rain and dust pollute the front area of the cloth, the sunlight bleaches out one stripe of cloth on the front profile.

SOLUTION:

The **GEIGER-SoftPlusWireless** guarantees a secure closing of the cassette. The intelligent motor control detects the exact closing point of the cassette.

The GEIGER radio system: different ways of installation:

The putting into operation may be performed in various ways:

- Programming of the various transmitters / receivers in the factory

OR

- Programming on site.

It also offers the opportunity to work with an extensive documentation.

Even out some mounting situations

PROBLEM:

During construction or renovation activities, you have to deal with relatively uneven surfaces and no right-angled corners. Result: the awning is mounted, the supporting structure is put under excessive stress so that the awning does not close properly. If you use a powerful motor in this situation, you might damage the awning cloth. This means that you will have to remove the awning, even the surface and fix the awning again. Doing this costs time and money!

SOLUTION:

The **GEIGER-SoftPlusWireless**, with the Powertronic system, can help avoiding extra work. For the first time, the technician has the opportunity to adapt the motor power to the assembly situation on site. No extra tools are needed.

Maximum safety with the GEIGER radio system

GEIGER has chosen a high quality radio system. For decades the GEIGER radio system has proved to be a reliable and successful system in the field of garage doors and access controls for parking lots.

The GEIGER radio system offers a high level of operational safety. The radio frequency used with all devices enables to cover very large control ranges.

Wireless systems offer great advantages in the retrofit sector: control cable and additional cable guides can be omitted. Radio controls are optimally suited for awning motors. Awnings motors, type **GEIGER-SoftPlusWireless**, can of course be combined with GEIGER rolling shutters or Venetian blinds motors.

We offer everything from one source – for optimized safety and efficiency

Made by GEIGER

GEIGER relies on Germany as production location: the **GEIGER-SoftPlusWireless**, 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**

Concept + Features

The **GEIGER-SoftPlusWireless** is used especially in the field of cassette awnings. It is designed to ensure that:

- ▶ **The cassettes are closed completely and safely.**
- ▶ **The control detects the power needed to close the cassette with a minimum of force**

A well conceived design: safety and protection

GEIGER system to reduce the closing force

The **GEIGER-SoftPlusWireless** is an intelligent motor especially adapted to cassette awnings. This electronic device detects the typical load needed when closing the cassette. It recognizes the closing force to be applied in order to close the cassette with a minimal force and to ensure that the fabric is protected. It differs from other conventional motors with a closing procedure which remains a critical point.

We draw your attention to the fact that the **GEIGER-SoftPlusWireless** adapts individually to the cassette type and the local construction. The closing force is constantly regulated to adapt to any change, e.g. aging factors. The cassettes are always closed properly and the cloth protection is optimized. A world premiere!

A noticeable difference: the reduction of the GEIGER closing force ensures that the cloth shows a perfect flat surface without ripples.

GEIGER Powertronic

With the GEIGER Powertronic system, the service technician has for the first time the possibility to influence the motor features during production and assembly. The motor power can easily be increased or reduced when closing the awning.

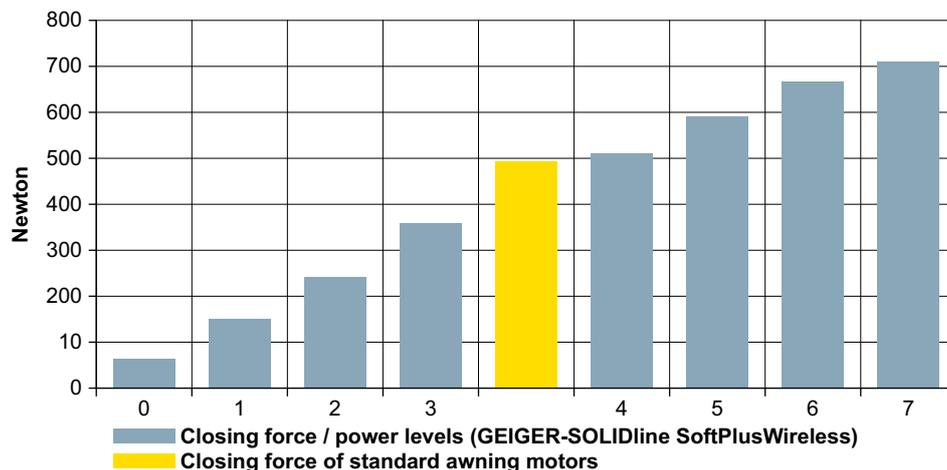
- ▶ **During manufacture, the engine performance can be modified in order to adapt optimally to a certain type of awning.**
- ▶ **During assembly on site, the motor electronics is able to correct the assembly situations which might influence the closing process. There is no extra work on the awning to be done here.**

The Powertronic system saves time during assembly on site and reduces the number of complaints made to the manufacturer as well as customer service costs.

For more details: The **GEIGER-SoftPlusWireless** has 8 power levels. The motor is delivered with the level 4 to allow a power increase/ reduction during assembly on site.

The table below shows the closing force of the awning according to the selected power level based on a 40 Nm motor: it is clear that manufacturing and assembling are provided with a wide range of options with regard to the different power levels.

You do not need any additional tools in order to use the GEIGER Powertronic. The hand-held transmitter which is supplied with the awning meets the requirements.



Protection of the cloth

The GEIGER Powertronic system allows you to vary the closing process and to optimize the force required to close the cassette.



A reduction of the closing force allows a softer closing and prevents any damage on the cloth.



The awning is thus protected to a maximum which increases its durability.

Secure closing

If for any reason whatsoever, you find that the cassette does not close properly, you can increase the power level to optimize the closing.



The selected power level is not adequate to completely close the cassette.



A higher power level allows the perfect closing of the cassette on both sides.

Dimensioning of the motors

The awning is often equipped with powerful motors to ensure:

- ▶ **A reduced selection of motors**
- ▶ **A perfect closing**

This approach is problematic when conventional motors are chosen: the cloth is exposed to excessive force. Oversized motors are more likely to damage the cloth than smaller ones.

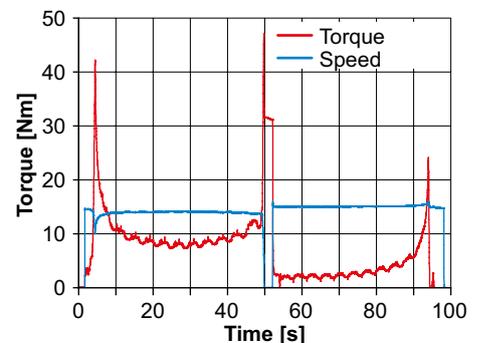
The **GEIGER-SoftPlusWireless** with the reduction of the closing force and the GEIGER Powetronic ensures optimal protection of the cloth even if the motor is oversized.

Detection System

GEIGER awning motors are able to detect the position of the cloth during operation. By approaching the point of maximum extension, the motors run at full power. Near closing point, they reduce their power accordingly.

You will notice that the GEIGER motors are particularly powerful around the maximum point of extension and particularly sensitive around closing point.

This combination offers significant advantages to all awning manufacturers.



Torque diagram by extension / retraction of a folding arm awning

Length compensation system

The **GEIGER-SoftPlusWireless** has a length compensation system. Moreover, we guarantee that the final external position remains unchanged even if the cloth length is modified.

In particular regarding covered terraces, pergolas or sunrooms, this system offers high security and reliability. It also avoids customer assistance for a new setting of the end stops.

GEIGER radio system

The GEIGER radio system offers high flexibility and increased comfort during factory assembly or during installation on site. It only takes a few steps to program/modify the end positions or the GEIGER Powertronic power levels. The easy operation is safe from accidental reprogramming.

A large number of facade awnings can be equipped with the GEIGER radio system.

The radio frequency used with all devices enables to cover very large control ranges. Radio protocols, successfully tried and tested for many years, as well as high quality electronic components guarantee high operating safety and reliability

The GEIGER radio accessories (wind and sun sensors, display hand transmitters, 50-channel hand transmitters etc...) can be adapted on the awning

motor **GEIGER-SoftPlusWireless** but also on our rolling shutters or Venetian blinds motors.

Functions

1. Setting of the end stops

The programming of the lower end position is made via free positioning. The upper end position is programmed automatically via a very sensitive torque limit.

2. Controlling the end stops / length compensation of the cloth

The control of the upper end position is realized via a very exact torque limit during each cycle. Changes in the cloth length are detected and compensated if necessary.

We can guarantee that the outer end position remains unchanged.

3. Intermediary position

It only takes a few steps to program/modify the intermediary position for glare protection.

4. Obstacle detection

The **GEIGER-SoftPlusWireless** has an obstacle detector in the UP direction.

5. GEIGER Powertronic: force levels

The closing force of the **GEIGER-SoftPlusWireless** adapts to local characteristics with minimal adjustment. Eight different power levels can be selected when closing the cassette.

An acoustic signal is generated when reaching either the minimum power level 0 (lower limit of the GEIGER Powertronic) or the maximum power level 7 (upper limit of the GEIGER Powertronic)

Short-form operating instructions

SOLIDline SoftPlusWireless
SOLIDline SoftZeroWireless

Learning/deleting of radio codes

- ON  Volt
-  → 3 sec
- | | |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |
| ↓ 1 sec learning | ↓ 5 sec deleting |
- READY! 

SOLIDline SoftPlusWireless
SOLIDline SoftZeroWireless

Setting of end stops

- ON  Volt
-  → 3 sec
-  → 1 sec
- lower end position
 ▼ → 1 sec
- upper end position
 ▲ → 5 sec
- READY! 

SOLIDline SoftPlusWireless
SOLIDline SoftZeroWireless

Change the locking force reserve

- ON  Volt
-  → 3 sec.
-  → 1 sec.
-  → 3 sec.
-  ▲ ▼ + -
-  1 sec. |  60 sec.
- READY! 

Note: When used in an open style folding arm awning, we recommend to preset the motor on power level 0 – afterwards you can begin with the setting of the end positions.

Sizes + data + availability

The **GEIGER-SoftPlusWireless** is suitable for cassette awnings / facade awnings which allow torque shutdowns in the upper end position.

Under certain conditions, the motor is also suitable for open style folding arm awnings. In this case please contact our application technical service.

The motor is operational with/without pivoting bearing. It can be used either with or without valance.

The **GEIGER-SoftPlusWireless** is an electronic system with radio controls. A setting cable is not needed.

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 and SOC and CE-certification.

Subject to technical modifications



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



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.