GEIGER Antriebstechnik

Product Datasheet

GEIGER-SOLIDline SoftZeroWireless-55 –

Higher speed and safety for sun protection systems

SOLIDline ../55

GEIGER has developed the SOLIDline-55 motor for the textile sun protection with facade awnings, screens and ZIP screens.

A rotational speed of 55 rpm contributes to a fast and safe shading of the facades. Compared to conventional drives the extension or retraction times of the sun protection can be reduced by over 60 %. The difference is clearly visible especially in case of high blinds. The high speed significantly increases the safety. The complete retraction of the blind, when too windy, only takes a few seconds.

Trend towards speed

The GEIGER-SOLIDline ../55 offers a real alternative to the current standard motors for sun protection devices. Rely on the "new high speed" of the GEIGER-SOLIDline ../55. You have the opportunity to distance themselves from the „standard range".

Motor control SoftZeroWireless-55

The radio control **SoftZeroWireless-55** has been developed especially for the high-speed motor. It is based on the GEIGER Soft controls with a variety of innovative features.
In addition, an obstacle detection system in DOWN direction is integrated.

This allows – also by textile hangings – the detection of objects in the area of movement and thus protects the sun protection. Upon detection of an obstacle the motor stops the sun protection and activates a brief inversion of movement.

Optimally suited for following applications:

- Facade awnings/Screens

With SOLIDline COM the cloth can be wound on the motorhead

- ZIP screens

Special Features

- GEIGER Powertronic
- GEIGER locking power reduction
- Hanging length adjustment
- GEIGER-Operating Radius Identification
- Protection of the system during extension/retraction

Notes

- UPPER stop necessary
- LOWER stop not necessary
- Constant UPPER torque shutoff
- Motors are switchable in parallel

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Also available without radio system

An identical motor is available in a wired version:
SOLIDline SoftZero-55

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Safety: DIN EN 13659

In accordance with DIN EN 13659, the speed of the hanging should reach max. 0,2 m/s in the squeezing zone, i.e. before reaching the lower/upper end positions. When meeting an obstacle in this area, the maximum power to be transmitted should not exceed 150 N.

We therefore recommend to operate high speed motors exclusively in connection with roller tubes of maximum 78 mm diameter. Depending on the selected fabric type – thickness, length, weight – and the weight of the final rail, smaller roller tubes can also be applied.
This should be checked before bringing into service.

Application

Main fields of application of the SoftZeroWireless-55: textile sun protection – vertical awnings, window awning blinds, ZIP systems – together with the **GEIGER SOLIDline../55**.

Dimensions + Technical Data

Specifications series SOLIDline (GU45..) with 55 rpm				
	GU4503/55	**GU4506/55**	**GU4509/55**	**GU4512/55**
Voltage	230 V~/50 Hz	230 V~/50 Hz	230 V~/50 Hz	230 V~/50 Hz
Current	0,47 A	0,63 A	0,8 A	1,0 A
Cos Phi (cosφ)	>0,95	>0,95	>0,95	>0,95
Inrush current (factor)	x 1,2	x 1,2	x 1,2	x 1,2
Power	105 W	140 W	180 W	220 W
Torque	3 Nm	6 Nm	9 Nm	12 Nm
Speed of rotation	55 rpm	55 rpm	55 rpm	55 rpm
Protection type	IP 44	IP 44	IP 44	IP 44
Operating type	S2 4 min	S2 5 min	S2 4 min	S2 4 min
Total length [1]	515,5 mm	545,5 mm	565,5 mm	585,5 mm
Lenght to adapter [c]	498,5 mm	528,5 mm	548,5 mm	568,5 mm
Weight	approx. 1,9 kg	approx. 2,2 kg	approx. 2,4 kg	approx. 2,7 kg

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

Subject to technical modifications

CE

Selection of torque values

Because of the motor sensitive obstacle detection, the correct dimensioning of the torque for the respective installation size is essential.

In the following table please find a selection aid to find out the right motor size:

Weight of bottom bar [kg]

Winding diameter [mm]	**1**	**2**	**3**	**4**	**5**	**6**	**8**	**10**	**12**	**15**	**20**	**25**	**30**
50	0,2	0,5	0,7	1,0	1,2	1,5	2,0	2,5	2,9	3,7	4,9	6,1	7,4
55	0,3	0,5	0,8	1,1	1,3	1,6	2,2	2,7	3,2	4,0	5,4	6,7	8,1
60	0,3	0,6	0,9	1,2	1,5	1,8	2,4	2,9	3,5	4,4	5,9	7,4	8,8
65	0,3	0,6	1,0	1,3	1,6	1,9	2,6	3,2	3,8	4,8	6,4	8,0	9,6
70	0,3	0,7	1,0	1,4	1,7	2,1	2,7	3,4	4,1	5,2	6,9	8,6	10,3
75	0,4	0,7	1,1	1,5	1,8	2,2	2,9	3,7	4,4	5,5	7,4	9,2	11,0
80	0,4	0,8	1,2	1,6	2,0	2,4	3,1	3,9	4,7	5,9	7,8	9,8	11,8
85	0,4	0,8	1,3	1,7	2,1	2,5	3,3	4,2	5,0	6,3	8,3	10,4	12,5
90	0,4	0,9	1,3	1,8	2,2	2,6	3,5	4,4	5,3	6,6	8,8	11,0	13,2
95	0,5	0,9	1,4	1,9	2,3	2,8	3,7	4,7	5,6	7,0	9,3	11,6	14,0
100	0,5	1,0	1,5	2,0	2,5	2,9	3,9	4,9	5,9	7,4	9,8	12,3	14,7
110	0,5	1,1	1,6	2,2	2,7	3,2	4,3	5,4	6,5	8,1	10,8	13,5	16,2
		3 Nm				**6 Nm**			**9 Nm**		**12 Nm**		

When using a wind sensor (e.g. GF0024/GF0025) the correct functioning of the retract command under wind load should be checked by the manufacturer of the sun protection before commissioning.

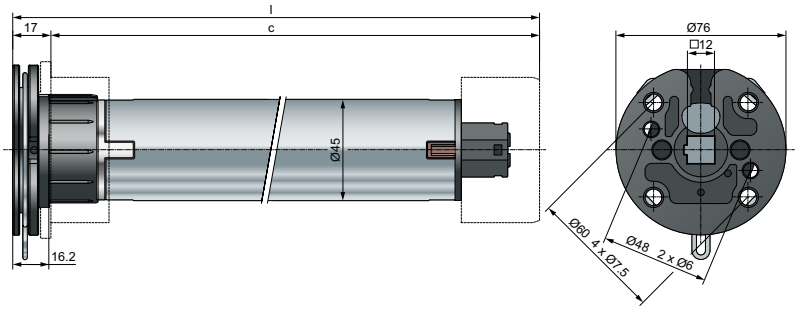
Made by GEIGER

GEIGER relies on Germany as production location: the **GEIGER-SOLIDline ../55**, like all GEIGER motors, are developed and produced in Germany. This situation allows an optimal combination of R & D, manufacturing processes and quality management.

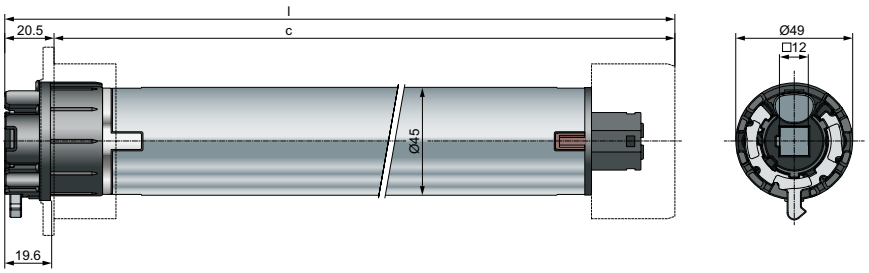
Our clients benefit from

- 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

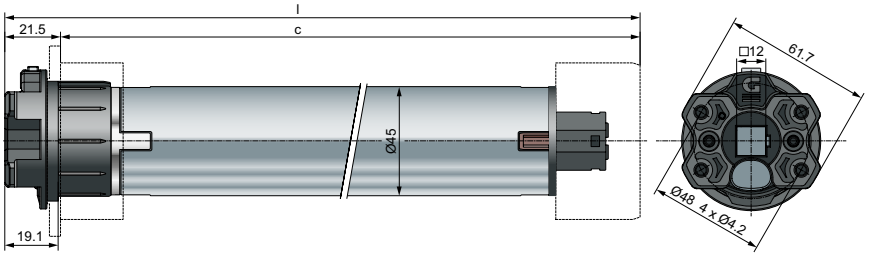
SOLIDline **KS** motor head



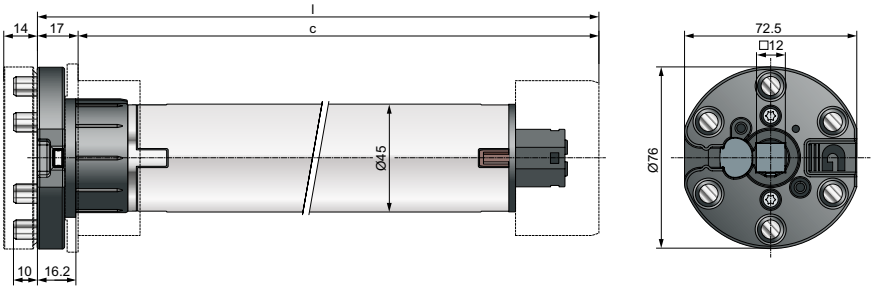
SOLIDline **COM** motor head



SOLIDline **SOC** motor **SOC**



SOLIDline **SOC** motor **SIL**



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.

Information

Please note:

Limitation of use in standard sun protection systems

For applications in the sun protection area (vertical awnings, etc.) the motors can only be used with 55 rpm.
Higher speeds are not appropriate for these classical applications.

Safety: DIN EN 13659

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We therefore recommend to operate high speed motors exclusively in connection with roller tubes of maximum 78 mm diameter. Depending on the selected fabric type – thickness, length, weight - and the weight of the final rail, smaller roller tubes can also be applied. This should be checked before bringing into service.

Noise emission

The dynamic conditions in sun protection devices change when switching from tubular motors with about 17 rpm to the **GEIGER-SOLIDline** motors with 55 rpm. Therefore, before using the sun protection device, please ensure that you especially check the noise emissions in the guide rails and when reaching the end stops (for motor controls with torque shut-off).

Applicable motor controls

The Easy and Various wireless motor controls are optimal for use with the **SOLIDline series** (55 rpm). All other motor controls should be tested before application with sunscreen products.

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.

GEIGER Antriebstechnik

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