



**Product Datasheet**

# GEIGER SOLIDline Easy-ZIP – Motor Systems for screens with ZIP guidance

## SOLIDline Easy-ZIP

GEIGER designed the SOLIDline Easy-ZIP motors for the textile sun protection. The ZIP installations should eliminate the disadvantages of vertical awnings or screens such as lateral light slots or wind sensitivity. GEIGER has specially designed this motor for this particular purpose.

Control, end stop and obstacle detection of the SOLIDline Easy-ZIP motors are all electronic! Thus, dust, wear and aging have no influence on the motor functions.

The motors are maintenance free. The motor and the installation achieve optimal results to the utmost satisfaction of our customers.

If an obstacle is detected downwards, the screen slightly moves up, then the motor makes two further attempts to reach the lower end position. After two failed attempts the motor switches off.

If the obstacle is only present on the first or the second time, the screen will reach successfully the lower end position. So the motor can clearly distinguish between a real obstacle, such as a flower pot, or a simple gust of wind.

If the screen moves up, the sensitivity is significantly reduced to ensure that the upper position can be reached safely though the wind has come up.

## Motor controls SOLIDline Easy-ZIP

In order to react to any installation situation, the SOLIDline Easy-ZIP and EasyWireless-ZIP are available in different versions:

Characteristics of the controls Easy-ZIP and EasyWireless-ZIP			
	Easy-ZIP 1.x	Easy-ZIP 2.x	Easy-ZIP 3.x
Upper end position: free positioning or torque shutoff	X	-	-
Lower end position: free positioning or torque shutoff			
Qi mode:			
Move to lower end position and without stop retract screen.	-	X	-
Upper end position: torque shutoff			
Automatic mode:			
Lower and upper end position: torque shutoff	-	-	X
Dual-Stop-Control	X	X	X
Hanging length adjustment	X	X	X
Less charge in the upper end position	X	-	-
GEIGER locking force reduction	X	X	X

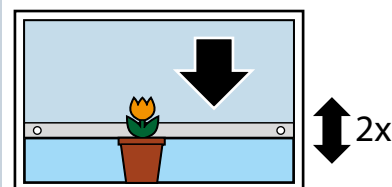
**Index**

SOLIDline Easy-ZIP ..... 1  
 Motor controls SOLIDline Easy-ZIP ..... 1  
 Torque selection ..... 2  
 Technical data ..... 3  
 GEIGER SOLIDline-SILENT ..... 4  
 Components ..... 4

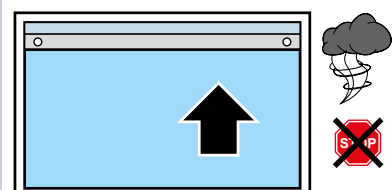
**Also available as radio-controlled motor!**

An identical motor is also available in a radio-controlled version: **SOLIDline EasyWireless-ZIP**

**Obstacle detection in DOWN direction**



**Obstacle detection in UP direction**



## Dual-Stop-Control

The Dual-stop control reliably distinguishes whether there is an obstacle in the moving area or if a gust of wind has stopped the screen.

## Hanging length adjustment

The **GEIGER SOLIDline Easy-ZIP** and **EasyWireless-ZIP** are equipped with a "hanging length adjustment". Modifications are recognized and compensated for, so that the positioning of the outer end position always keeps the same.

## Less charge in the upper end position

As the ZIP screen is not permanently under tension the cloth is better protected.

## GEIGER locking force reduction

The motor closes the device with the power that is really necessary.

## Torque selection

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

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

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

		Weight of bottom bar [kg]																			
		5,0	7,5	10,0	12,5	15,0	17,5	20,0	22,5	25,0	27,5	30,0	32,5	35,0	37,5	40,0	42,5	45,0	47,5	50,0	
Winding diameter [mm]	50	1,5	2,2	2,9	3,7	4,4	5,2	5,9	6,6	7,4	8,1	8,8	9,6	10,3	11,0	11,8	12,5	13,2	14,0	14,7	
	55	1,6	2,4	3,2	4,0	4,9	5,7	6,5	7,3	8,1	8,9	9,7	10,5	11,3	12,1	12,9	13,8	14,6	15,4	16,2	
	60	1,8	2,6	3,5	4,4	5,3	6,2	7,1	7,9	8,8	9,7	10,6	11,5	12,4	13,2	14,1	15,0	15,9	16,8	17,7	
	65	1,9	2,9	3,8	4,8	5,7	6,7	7,7	8,6	9,6	10,5	11,5	12,4	13,4	14,3	15,3	16,3	17,2	18,2	19,1	
	70	2,1	3,1	4,1	5,2	6,2	7,2	8,2	9,3	10,3	11,3	12,4	13,4	14,4	15,5	16,5	17,5	18,5	19,6	20,6	
	75	2,2	3,3	4,4	5,5	6,6	7,7	8,8	9,9	11,0	12,1	13,2	14,3	15,5	16,6	17,7	18,8	19,9	21,0	22,1	
	80	2,4	3,5	4,7	5,9	7,1	8,2	9,4	10,6	11,8	12,9	14,1	15,3	16,5	17,7	18,8	20,0	21,2	22,4	23,5	
	85	2,5	3,8	5,0	6,3	7,5	8,8	10,0	11,3	12,5	13,8	15,0	16,3	17,5	18,8	20,0	21,3	22,5	23,8	25,0	
	90	2,6	4,0	5,3	6,6	7,9	9,3	10,6	11,9	13,2	14,6	15,9	17,2	18,5	19,9	21,2	22,5	23,8	25,2	26,5	
	95	2,8	4,2	5,6	7,0	8,4	9,8	11,2	12,6	14,0	15,4	16,8	18,2	19,6	21,0	22,4	23,8	25,2	26,6	28,0	
	100	2,9	4,4	5,9	7,4	8,8	10,3	11,8	13,2	14,7	16,2	17,7	19,1	20,6	22,1	23,5	25,0	26,5	28,0	29,4	
	105	3,1	4,6	6,2	7,7	9,3	10,8	12,4	13,9	15,5	17,0	18,5	20,1	21,6	23,2	24,7	26,3	27,8	29,4	30,9	
	110	3,2	4,9	6,5	8,1	9,7	11,3	12,9	14,6	16,2	17,8	19,4	21,0	22,7	24,3	25,9	27,5	29,1	30,8	32,4	
115	3,4	5,1	6,8	8,5	10,2	11,8	13,5	15,2	16,9	18,6	20,3	22,0	23,7	25,4	27,1	28,8	30,5	32,2	33,8		
120	3,5	5,3	7,1	8,8	10,6	12,4	14,1	15,9	17,7	19,4	21,2	23,0	24,7	26,5	28,3	30,0	31,8	33,6	35,3		
		6 Nm				10 Nm				20 Nm				30 Nm							



## Technical data

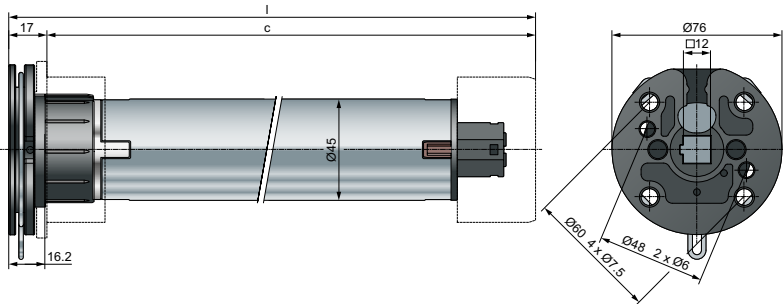
Technical data of tubular motor SOLIDline-KS (GU45..)				
	GU4506	GU4510	GU4520	GU4530
<b>Voltage</b>	230V~/50Hz			
<b>Current</b>	0,36 A	0,47 A	0,63 A	0,8 A
<b>Cos Phi (cosφ)</b>	>0,95			
<b>Inrush current (factor)</b>	x 1,2			
<b>Power</b>	83 W	105 W	140 W	180 W
<b>Torque</b>	6 Nm	10 Nm	20 Nm	30 Nm
<b>Speed</b>	16 rpm	16 rpm	16 rpm	16 rpm
<b>Protection class</b>	IP 44			
<b>Total length<sup>1)</sup></b>	506,5 mm	516,5 mm	546,5 mm	566,5 mm
<b>Operating mode</b>	S2 4 min	S2 4 min	S2 5 min	S2 4 min
<b>Sound pressure level</b>	39 dB(A)	39 dB(A)	41 dB(A)	41 dB(A)
<b>Diameter</b>	45 mm			
<b>Weight</b>	approx. 1,85 kg	approx. 1,90 kg	approx. 2,20 kg	approx. 2,40 kg
<b>Storage temperature/ Humidity</b>	T = -15°C .. +70°C / dry and non-condensing place			

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

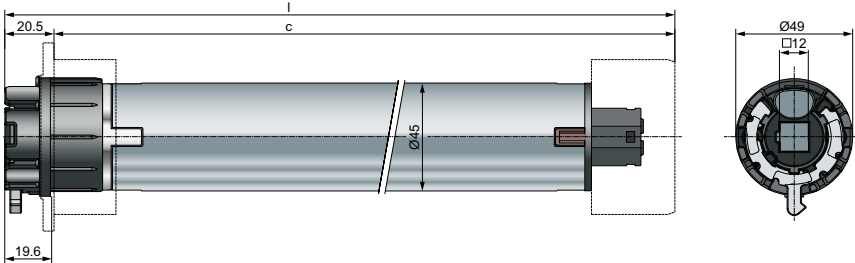
Subject to technical modifications. Please find information to the ambient temperature range of our GEIGER motors under [www.geiger.de](http://www.geiger.de)



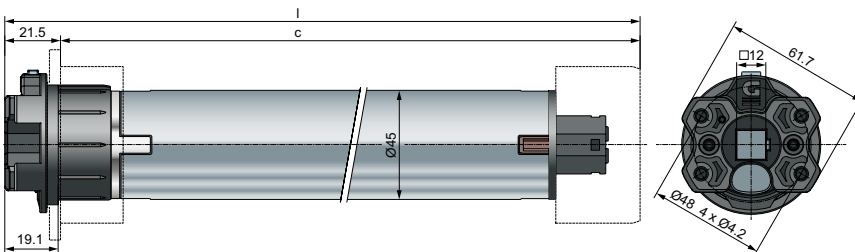
### SOLIDline **KS** motor head



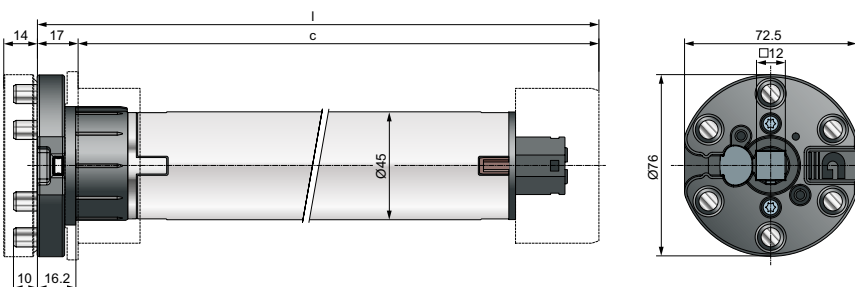
### SOLIDline **COM** motor head



### SOLIDline **SOC** motor head



### SOLIDline **SIL** motor head



## 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.

## GEIGER SOLIDline-SILENT

The SOLIDline-SILENT with modified KS motor head was specifically designed for the low-noise operation of ZIP screens. A special bearing and counter-bearing allow a significant reduction of the running noise as well as of the vibrations that are transmitted from the motor.

### Components

#### Motor heads

The SOLIDline-SILENT is exclusively delivered with the motor head KS. The four additional bolts ( $\varnothing$  8 mm) are pressed into the existing holes (pitch circle 60 mm).

#### Bearing

The two-piece motor bearing consists of a base plate and a plastic damping. The base plate has respectively two holes with M6 threads (circle- $\varnothing$  48 mm) and M8 threads (circle- $\varnothing$  60 mm). The damping is available in two hardness grades. The soft damping is applicable up to 12 Nm output torque, the hard one up to 40 Nm. Base plate and damping are together 14 mm thick.

#### Counter-bearing

With regard to the ZIP screens a counter-bearing can be used in order to achieve a further reduction of the vibrations.



Motor bearing: base plate and damping element

Counter-bearing: base plate, damping element and shaft receiver



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.