



# TECline

TUBULAR MOTORS

**GEIGER**  
ANTRIEBSTECHNIK



# SIMPLY BETTER PROTECTION



*Rolling shutters act like a coat for your house - they are simply perfect for protecting it from undesired external influences. Their sturdy curtains keep out extreme temperatures, bad weather, and noise. They equally keep out prying eyes or uninvited guests. They can be operated manually, wirelessly, or fully automatically in a smart home.*

## Design

The right look - good design is the result of maximum function at GEIGER.

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## Protection

Carefree enjoyment - our rolling shutter drives not only protect the blinds from damage, but can also make break-ins more difficult.

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## Connection

The gateway to the smart world - every rolling shutter can be connected to the right GEIGER drive.

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## Mounting

Ready for use in the blink of an eye - thanks to customised mounting components, our drives are installed quickly.

74

## Smooth operation

Silence is a luxury - GEIGER minimises the noise level of its drives.

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## Drive overview

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# FEATURES

## DESIGN

*The right look - function and design in harmony at GEIGER. The more precisely a rolling shutter operates and the more individually it supports the appearance of a building, the higher the quality of its appearance.*

### Synchronised position

Our drives switch off identically in the upper end position thanks to GEIGER motor intelligence. This means that adjacent blinds are at the same height after stopping in the upper end position - even if the rolling shutters are of different sizes or widths. A visual plus for every building.

### Referencing

The motor control unit will check the rolling shutter end positions in particular cycles with the optional referencing function. This keeps the blind moving precisely at the originally set distances even after years, even if the winding behaviour changes due to external influences. Follow-up costs for manufacturers and end customers are reduced to a minimum and the longevity of the systems is maximised.

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## PROTECTION

*Carefree enjoyment - with smart drives that effectively protect against uninvited guests and also automatically protect the sun protection from wear and damage. This not only alleviates your stress, it is also easy on your wallet.*



### Soft position

The GEIGER soft position does not stop the blind by torque cut-off when retracting, but stops it shortly before reaching the upper end position. It prevents permanent tension or pressure on the rolling shutter curtain. This protects the rolling shutter box, prevents the curtain from bulging, and keeps it from freezing in its upper end position in winter.



### Burglary resistance

Our rolling shutter drives effectively prevent unauthorised access in combination with an anti-lift device. Burglars would have to work against the motor force when pushing up the rolling shutter due to a constant torque cut-off in the DOWN direction. Motor power and anti-lift device together make it almost impossible to push the rolling shutter up from the outside.



### Anti-freeze protection

The anti-freeze protection adds some extra safety in sub-zero temperatures: End rails frozen to the window sill are recognised immediately. The drive stops to prevent damage to the blinds and keep them intact.



### Obstacle detection in UP direction

If the sun protection moves to the upper end position, it is automatically stopped if there is resistance in the travel path. This also applies to weather-related influences such as coarse dirt. The sensitive power cut-off registers obstacles, protects the blind and ensures long-lasting sun protection.

# FEATURES

## CONNECTION

*The gateway to the smart world. Every rolling shutter can be easily connected to matching GEIGER drive, all the way to integration into a fully automated smart home. Sun protection networks increase functionality, safety, and comfort throughout the home.*

### GEIGER radio

The unidirectional radio system with its long range makes it possible to reliably address even relatively distant receivers. Accidental changes to the end positions/motor settings by the end user are prevented by its delimited programming level (programming range/close range). A wide range of accessories such as various handheld transmitters and sensors round off the GEIGER radio program.

### Wireless AIR technology

Our innovative AIR radio technology is able to cover long distances and even the most labyrinthine buildings with MESH technology. All AIR drives are equipped with bidirectional radio. Commands are thus not only received, but also confirmed after execution; otherwise, an error message will be returned. AIR also makes the sun protection system Smart Home Ready: Connecting AIR drives to the Loxone miniserver will integrate the sun protection system into a full smart home control system. All integrated technical components complement each other in their functions - for more convenience, greater energy efficiency, and improved security.

## MOUNTING

*Quick and easy to use - simple handling is a matter of course for a GEIGER drive. We know how to make installation, maintenance, and operation of our products easier for our customers.*

### Plug & Play

Plug & Play puts an end to the tedious and time-consuming adjustment of end positions. Our smart drives enable extremely fast teach-in without adjustment cables: Moving to the bottom end position, correcting at need, raising the blind all the way, and switching off - done. Maintenance costs and service calls are reduced.



## Tool-free mounting

All of our fixation kits can be inserted and attached tool-free. This is because our installation accessories are developed in close co-operation with the rolling shutter manufacturers. We keep subsequent installation in mind from the development stage, customising our mounting accessories precisely to any requirements our customers may have.



## Sophisticated fastening systems

We offer roller bearings, amongst other things, for rolling shutters. This means that the hanging can be unrolled in the open state even if the motor fails. Our folding engine bearers can be fixed without tools and without having to screw the bearing plate to the rolling shutter box.

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## SMOOTH RUNNING

*Silence is a luxury - and GEIGER keeps improving all of its drives to optimise smooth running. Less material friction equals quieter drives. Once the sun protection is virtually inaudible, it guarantees a more comfortable atmosphere.*



## Optimised product design

We reduce noise emissions right where the develop: in the mechanics of the engine, transmission, and brakes and in transmission of vibrations and structure-borne noise to adjacent elements. Optimisation ranges from product development and material selection to manufacturing processes and includes all drive components. We strive to reduce friction between all components, absorb sound with softer materials and dampen vibrations.

# MOTOR MATRIX TECLine

	SLIM.TECLine Ø35 mm						PRO.TECLine Ø45 mm			
	Spindle	Spindle- Radio	Easy	Easy Radio	Soft- Perfec- tion-X01	X01 Radio	Spindle	Spindle- Radio	Super- Silent Spindle	Super- Silent Spindle Radio
	Page 78	Page 80	Page 82	Page 84	Page 86	Page 88	Page 90	Page 92	Page 94	Page 96
<b>Application</b>										
Rolling shutter (without stopper + anti-lift devices)	■	■	■	■			■	■	■	■
Rolling shutter (with stopper + anti-lift device)	■	■	■	■	■	■	■	■	■	■
Screens	■	■	■	■			■	■	■	■
ZIP screens	■	■					■	■	■	■
Inspect protection	■	■					■	■	■	■
Facade awnings			■	■			■	■		
Open style folding arm awnings			■	■			■	■		
Cassette awnings							■	■		
Conservatory shading							■	■		
Roller gates										
<b>Design</b>										
Synchronised position			■	■	■	■				
Referencing			■	■	■	■				
Intermediate position										
<b>Hanging protection</b>										
Wind proof	■	■					■	■	■	■
Soft position			■	■						
Burglary resistance*	■	■	■	■	■	■	■	■	■	■
Anti-freeze protection			■	■	■	■				
Obstacle detection (UP direction)			■	■	■	■				
Blocking detection (DOWN direction)										
Closing force minimisation										
Torque deactivation			■	■	■	■				
DualStop-Control										
<b>Connection</b>										
GEIGER Radio 2.0		■		■		■		■		■
<b>Mounting</b>										
Plug-in cables										
Plug & Play					■	■				
Control switch required	■		■		■	■	■		■	
<b>Smooth operation</b>										
SuperSilent									■	■

\* only for use with anti-lift devices or fixed tube connectors



## SLIM.TECline Spindle

Mechanical tubular  
motor Ø 35 mm



### Application:



Rolling shutters



Screens



ZIP screens



Insect protection

### Characteristics:

#### Wind proof



The Spindle has no obstacle detection. This allows the blind to move quickly to its protected upper end position in the event of a wind alarm in spite of strong gusts of wind.

### Product advantages:

- Mechanical limit switch
- Fixed connection line with open end
- Quick adjustment of the end positions by precise spindle deactivation by socket screws

### End position adjustment:

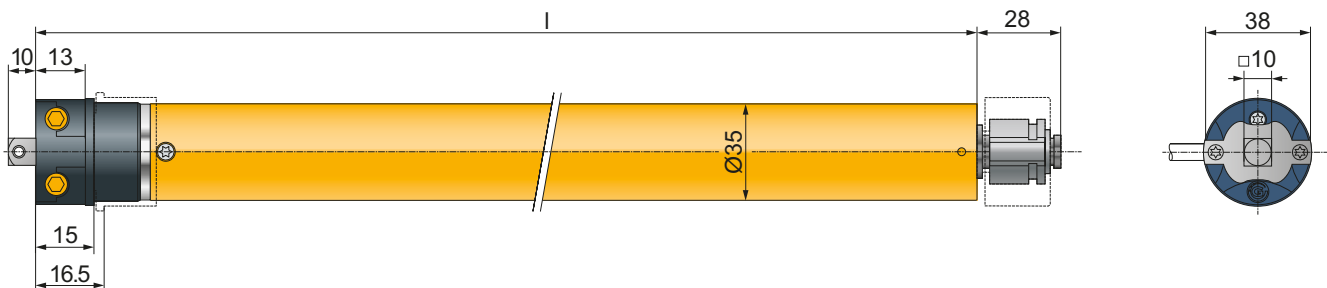
<b>TOP</b>	Stop on free position	<b>BOTTOM</b>	Stop on free position
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## Technical data:

Technical data tubular motor SLIM.TECline Spindle (GB35S-../..)		
	GB35S-06/26	GB35S-10/17
Voltage	230V~/50Hz	
Current	0.54 A	0.54 A
Cos Phi ( $\cos\varphi$ )	>0.95	
Inrush current (factor)	x 1.2	
Power	120 W	120 W
Torque	6 Nm	10 Nm
Speed	26 rpm	17 rpm
Limit switch-off range	30 revolutions	
Protection class	IP 44	
Total length [l]	451 mm	
Operating mode	S2 4 min	
Sound pressure level	39 dB(A)	
Diameter	35 mm	
Weight	approx. 1.50 kg	approx. 1.50 kg
Humidity	dry, non-condensing	
Storage temperature	T = -15 °C ... +70 °C	

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

## Drawings:



## Accessories:

	Engine bearer	<b>124</b>		Anti-lift device	<b>136</b>
	Adaptor/driver	<b>130</b>		Radio accessories	<b>181</b>

## SLIM.TECline SpindleRadio

Mechanical tubular  
motor Ø 35 mm  
with radio system



### Application:



Rolling shutters



Screens



ZIP screens



Insect protection

### Characteristics:

#### Wind proof



The Spindle has no obstacle detection. This allows the blind to move quickly to its protected upper end position in the event of a wind alarm in spite of strong gusts of wind.

#### GEIGER Radio 2.0



The end positions are set via the known spindle screws with a 4 mm socket wrench. The systems are opened and closed comfortably and simply via the new, elegant handheld transmitters.

### Product advantages:

- Mechanical limit switch
- Fixed connection line with open end
- Quick adjustment of the end positions by precise spindle deactivation by socket screws

### Notices:

- Operation by handheld or wall transmitter

### End position adjustment:

TOP

Stop on free  
position

BOTTOM

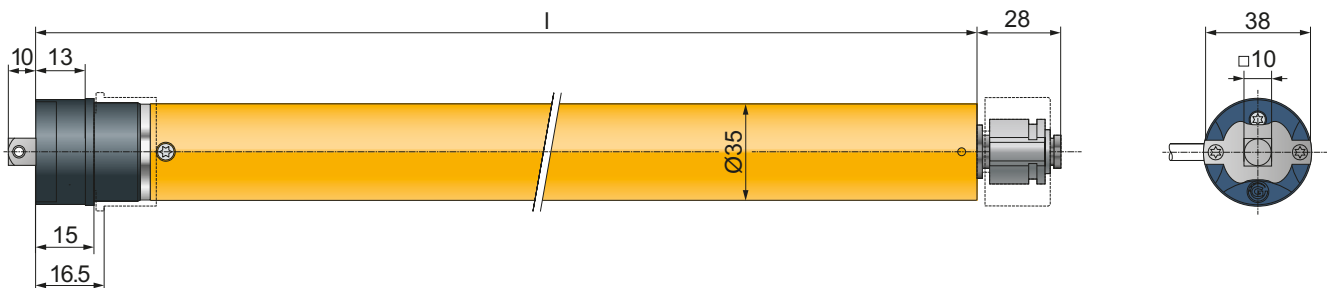
Stop on free  
position

## Technical data:

Technical data tubular motor SLIM.TECline SpindleRadio (GB35R-../..)		
	GB35R-06/26	GB35R-10/17
Voltage	230V~/50Hz	
Current	0.54 A	0.54 A
Cos Phi ( $\cos\varphi$ )	>0.95	
Inrush current (factor)	x 1.2	
Power	120 W	120 W
Torque	6 Nm	10 Nm
Speed	26 rpm	17 rpm
Limit switch-off range	30 revolutions	
Protection class	IP 44	
Total length [l]	571 mm	
Operating mode	S2 4 min	
Sound pressure level	39 dB(A)	
Radio frequency	433 MHz	
Weight	approx. 1.60 kg	approx. 1.60 kg
Humidity	dry, non-condensing	
Storage temperature	T = -15 °C ... +70 °C	

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

## Drawings:



## Accessories:

	Engine bearer	<b>124</b>		Anti-lift device	<b>136</b>
	Adaptor/driver	<b>130</b>		Radio accessories	<b>181</b>

# SLIM.TECLine

## Easy

### Electronic tubular motor Ø 35 mm



## Application:



Rolling shutters



Screens



ZIP screens



Insect protection

## Characteristics:

### Soft position



The hanging stops before reaching its upper end position to protect the materials.

### Hanging protection

The integrated sensitive motor intelligence ensures that ...

#### ■ Antifreeze protection

... the hangings that are frozen to the windowsill are detected and not torn off.



■ **Obstacle detection in UP direction**... the system is protected during retraction.



### Synchronised position



Consistent switch-off behaviour is always guaranteed, even with different hanging widths or heights. No rolling shutters hanging differently in their upper end positions anymore.

### Burglary resistance



A constant torque cut-off in the DOWN direction allows the rolling shutter to develop its burglary-resistant effect. (Only possible in combination with anti-lifting devices.)

### Referencing



Every 50 cycles, a reference run is carried out to check whether the end positions are right. For this purpose the hanging moves to the upper end position until the drive switches off to torque. The end positions are checked and corrected if necessary.

## Product advantages:

- Electronic limit stop
- Automatic detection left and right installation
- Can be connected in parallel

## Notices:

- Do not use switches with simultaneous UP/DOWN command
- Programming of the end positions possible via any adjustment cable. Any setting cable that has a programming button or permits simultaneous UP/DOWN commands can be used.

## Options:

- Available with faster motor upon request

## End position adjustment:

TOP	*Stop on torque	BOTTOM	*Stop on torque
	Stop on free position		Stop on free position

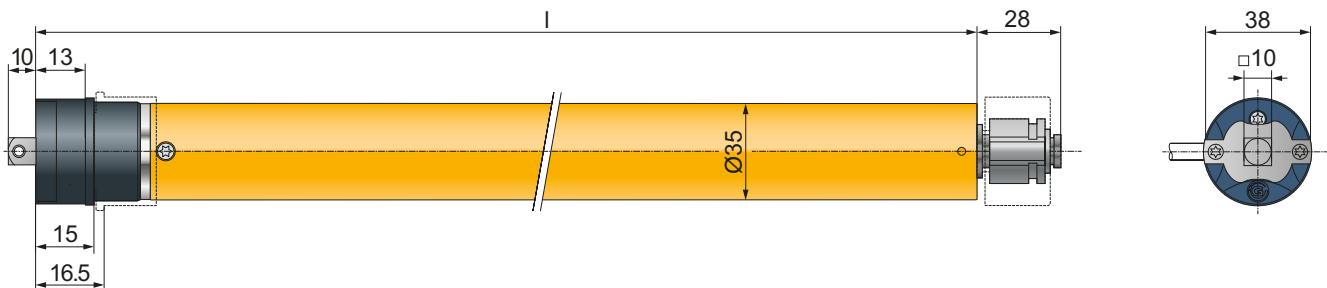
\* Stopper and anti-lift device/rigid tube connector

## Technical data:

Technical data tubular motor SLIM.TEClime Easy (GB35E01-../..)		
	GB35E01-06/26	GB35E01-10/17
Voltage	230V~/50Hz	
Current	0.54 A	0.54 A
Cos Phi (cosφ)	>0.95	
Inrush current (factor)	x 1.2	
Power	120 W	120 W
Torque	6 Nm	10 Nm
Speed	26 rpm	17 rpm
Limit switch-off range	> 200 revolutions	
Protection class	IP 44	
Total length [l]	453 mm	
Operating mode	S2 4 min	
Sound pressure level	39 dB(A)	
Diameter	35 mm	
Weight	approx. 1.60 kg	approx. 1.60 kg
Humidity	dry, non-condensing	
Storage temperature	T = -15 °C ... +70 °C	

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

## Drawings:



## Accessories:

	Engine bearer	124		Anti-lift device	136
	Adaptor/driver	130		Radio accessories	181

## SLIM.TECLine Easy Radio

Electronic tubular  
motor Ø 35 mm



### Application:



Rolling shutters



Screens



ZIP screens



Insect protection

### Characteristics:

#### Soft position



The hanging stops before reaching its upper end position to protect the materials.

#### Hanging protection

The integrated sensitive motor intelligence ensures that ...

##### ■ Antifreeze protection

... the hangings that are frozen to the windowsill are detected and not torn off.



■ **Obstacle detection in UP direction...** the system is protected during retraction.



#### Synchronised position



Consistent switch-off behaviour is always guaranteed, even with different hanging widths or heights. No rolling shutters hanging differently in their upper end positions anymore.

#### Burglary resistance



A constant torque cut-off in the DOWN direction allows the rolling shutter to develop its burglary-resistant effect. (Only possible in combination with anti-lifting devices.)

#### Referencing



Every 50 cycles, a reference run is carried out to check whether the end positions are right. For this purpose the hanging moves to the upper end position until the drive switches off to torque. The end positions are checked and corrected if necessary.

#### GEIGER Radio 2.0



The unidirectional radio system offers a long range and enables secure communication with remote receivers.

### Product advantages:

- Electronic limit stop
- Automatic detection left and right installation
- Can be connected in parallel

### Notices:

- Do not use switches with simultaneous UP/DOWN command
- Programming of the end positions possible via any adjustment cable. Any setting cable that has a programming button or permits simultaneous UP/DOWN commands can be used.

### End position adjustment:

TOP	*Stop on torque	BOTTOM	*Stop on torque
	Stop on free position		Stop on free position

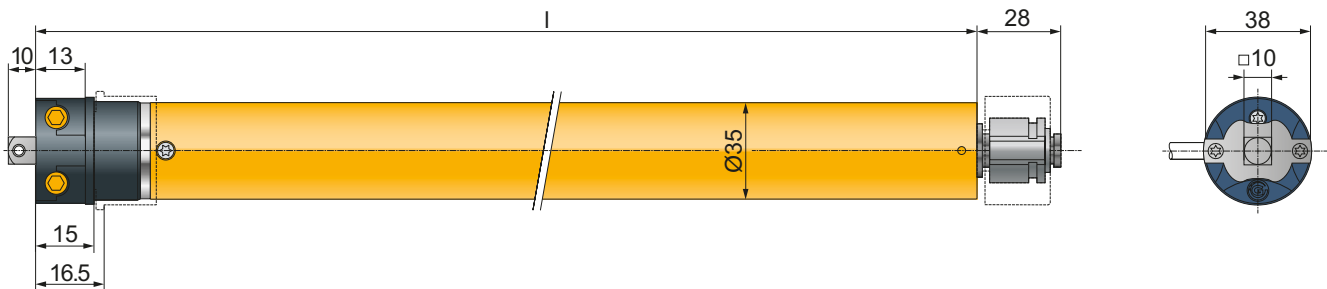
\* Stopper and anti-lift device/rigid tube connector

## Technical data:

Technical data tubular motor SLIM.TEClime Easy Radio (GB35F11-../..)		
	GB35F11-06/26	GB35F11-10/17
Voltage	230V~/50Hz	
Current	0.54 A	0.54 A
Cos Phi (cosφ)	>0.95	
Inrush current (factor)	x 1.2	
Power	120 W	120 W
Torque	6 Nm	10 Nm
Speed	26 rpm	17 rpm
Limit switch-off range	> 200 revolutions	
Protection class	IP 44	
Total length [l]	453 mm	
Operating mode	S2 4 min	
Sound pressure level	39 dB(A)	
Diameter	35 mm	
Radio frequency	433 MHz	
Weight	approx. 1.60 kg	approx. 1.60 kg
Humidity	dry, non-condensing	
Storage temperature	T = -15 °C ... +70 °C	

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

## Drawings:



## Accessories:

	Engine bearer	124		Anti-lift device	136
	Adaptor/driver	130		Radio accessories	181

# SLIM.TECLine

## SoftPerfection-X01

Electronic tubular motor Ø 35 mm



### Application:



Rolling shutter

### Characteristics:

#### Delayed teaching



The motor does not learn its actual end positions until the fifth driving cycle.

#### Soft position



The hanging stops before reaching its upper end position to protect the materials.

#### Synchronised position



Consistent switch-off behaviour is always guaranteed, even with different hanging widths or heights. No rolling shutters hanging differently in their upper end positions anymore

#### Plug & Play



Autonomous detection of the end positions without time-consuming adjustment work in the installation procedure. Done in only one up and down movement. (Only when using stoppers and anti-lift devices).

#### Hanging protection

The integrated sensitive motor intelligence ensures that ...

##### ■ Antifreeze protection

... the hangings that are frozen to the windowsill are detected and not torn off.



■ **Obstacle detection in UP direction...** the system is protected during retraction.



#### Referencing



Every 50 cycles, a reference run is carried out to check whether the end positions are right. For this purpose the hanging moves to the upper end position until the drive switches off to torque. The end positions are checked and corrected if necessary.

### Product advantages:

- Electronic limit stop
- Automatic detection left and right installation
- Can be connected in parallel
- In learning mode already on delivery

### Notices:

- Do not use switches with simultaneous UP/DOWN command
- Rigid tube connectors and stoppers are essential
- Adjustment of end positions possible via control switch

### End position adjustment:



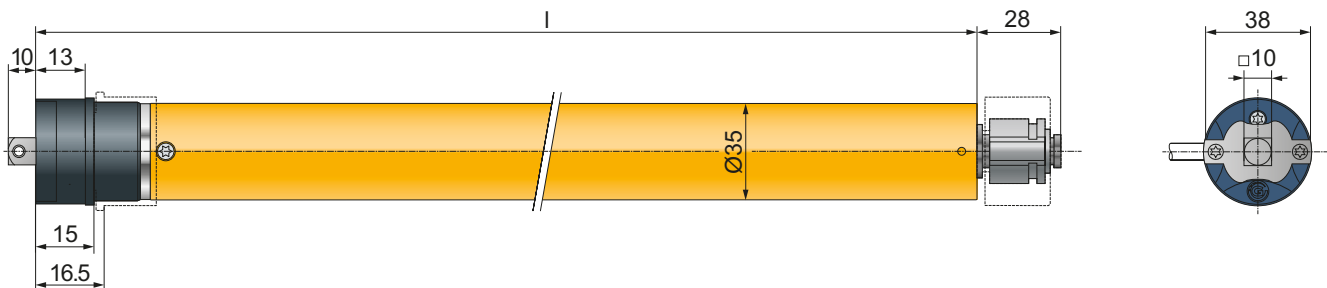
\* Stopper and anti-lift device/rigid tube connector

## Technical data:

Technical data tubular motor SLIM.TEClime SoftPerfection-X01 (GB35E03-../..)		
	GB35E03-06/26	GB35E03-10/17
Voltage	230V~/50Hz	
Current	0.54 A	0.54 A
Cos Phi (cosφ)	>0.95	
Inrush current (factor)	x 1.2	
Power	120 W	120 W
Torque	6 Nm	10 Nm
Speed	26 rpm	17 rpm
Limit switch-off range	> 200 revolutions	
Protection class	IP 44	
Total length [l]	453 mm	
Operating mode	S2 4 min	
Sound pressure level	39 dB(A)	
Diameter	35 mm	
Weight	approx. 1.60 kg	approx. 1.60 kg
Humidity	dry, non-condensing	
Storage temperature	T = -15 °C ... +70 °C	

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

## Drawings:



## Accessories:

	Engine bearer	124		Anti-lift device	136
	Adaptor/driver	130		Radio accessories	181

# SLIM.TECline X01 Radio

Electronic  
tubular motor Ø 35 mm



## Application:



Rolling shutter

## Characteristics:

### Delayed teaching



The motor does not learn its actual end positions until the fifth driving cycle.

### Soft position



The hanging stops before reaching its upper end position to protect the materials.

### Synchronised position



Consistent switch-off behaviour is always guaranteed, even with different hanging widths or heights. No rolling shutters hanging differently in their upper end positions anymore

### Plug & Play



Autonomous detection of the end positions without time-consuming adjustment work in the installation procedure. Done in only one up and down movement. (Only when using stoppers and anti-lift devices).

### Hanging protection

The integrated sensitive motor intelligence ensures that ...

#### ■ Antifreeze protection

... the hangings that are frozen to the windowsill are detected and not torn off.



■ **Obstacle detection in UP direction...** the system is protected during retraction.



### Referencing



Every 50 cycles, a reference run is carried out to check whether the end positions are right. For this purpose the hanging moves to the upper end position until the drive switches off to torque. The end positions are checked and corrected if necessary.

### GEIGER Radio 2.0



The unidirectional radio system offers a long range and enables secure communication with remote receivers.

## Product advantages:

- Electronic limit stop
- Automatic detection left and right installation
- Can be connected in parallel
- In learning mode already on delivery

## Notices:

- Do not use switches with simultaneous UP/DOWN command
- Rigid tube connectors and stoppers are essential
- Adjustment of end positions possible via control switch or handheld transmitter

## End position adjustment:

TOP

\*Stop on torque

BOTTOM

\*Stop on torque

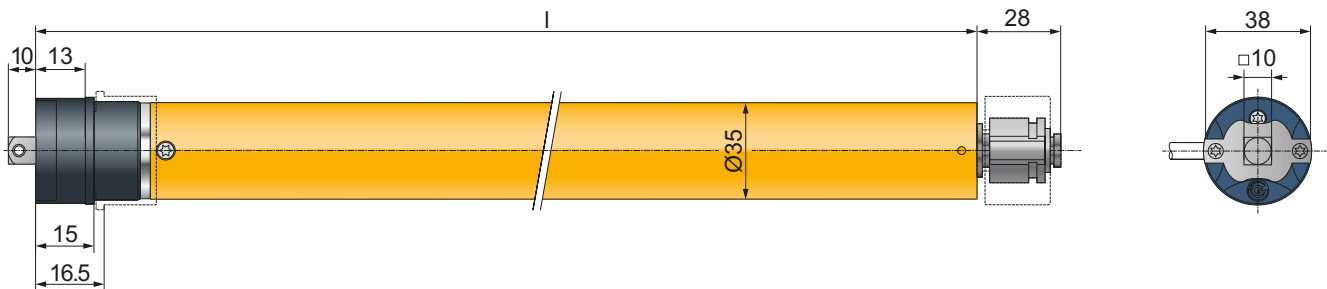
\* Stopper and anti-lift device/rigid tube connector

## Technical data:

Technical data tubular motor SLIM.TEClime X01 Radio (GB35F12-../..)		
	GB35F12-06/26	GB35F12-10/17
Voltage	230V~/50Hz	
Current	0.54 A	0.54 A
Cos Phi (cosφ)	>0.95	
Inrush current (factor)	x 1.2	
Power	120 W	120 W
Torque	6 Nm	10 Nm
Speed	26 rpm	17 rpm
Limit switch-off range	> 200 revolutions	
Protection class	IP 44	
Total length [l]	453 mm	
Operating mode	S2 4 min	
Sound pressure level	39 dB(A)	
Diameter	35 mm	
Radio frequency	433 MHz	
Weight	approx. 1.60 kg	approx. 1.60 kg
Humidity	dry, non-condensing	
Storage temperature	T = -15 °C ... +70 °C	

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

## Drawings:



## Accessories:

	Engine bearer	124		Anti-lift device	136
	Adaptor/driver	130		Radio accessories	181

## PRO.TECline Spindle

Mechanical tubular  
motor Ø 45 mm



### Application:



Rolling shutters



Screens



Awnings



Facade awnings

### Characteristics:

#### Wind proof



The Spindle has no obstacle detection. This allows the blind to move quickly to its protected upper end position in the event of a wind alarm in spite of strong gusts of wind.

### Product advantages:

- Mechanical limit switch
- Fixed connection line with open end
- Quick adjustment of the end positions by precise spindle deactivation by socket screws

### End position adjustment:

TOP

Stop on free  
position

BOTTOM

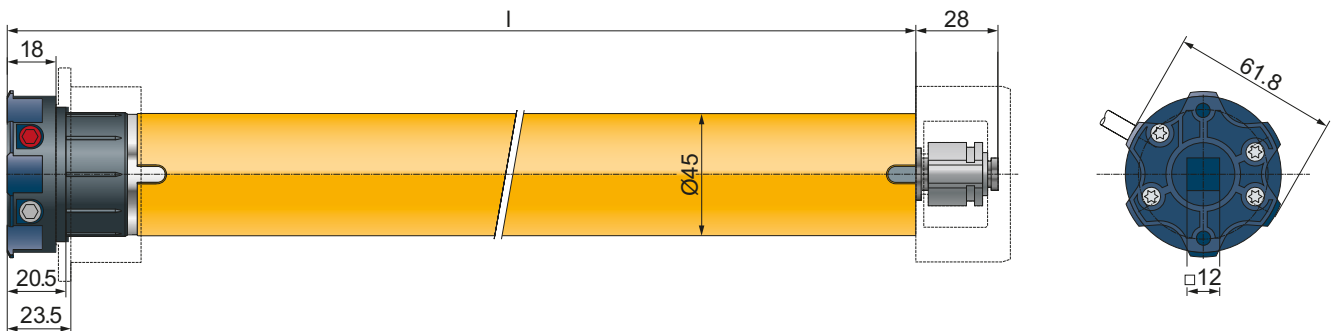
Stop on free  
position

## Technical data:

Technical data tubular motor PRO.TECline Spindle (GB45S-../..)					
	GB45S-10/15	GB45S-20/15	GB45S-30/15	GB45S-40/15	GB45S-50/12
<b>Voltage</b>	230V~/50Hz				
<b>Current</b>	0.47 A	0.63 A	0.80 A	1.00 A	1.00 A
<b>Cos Phi (cos<math>\varphi</math>)</b>	>0.95				
<b>Inrush current (factor)</b>	x 1.2				
<b>Power</b>	105 W	140 W	180 W	220 W	220 W
<b>Torque</b>	10 Nm	20 Nm	30 Nm	40 Nm	50 Nm
<b>Speed</b>	15 rpm	15 rpm	15 rpm	15 rpm	12 rpm
<b>Limit switch-off range</b>	22 revolutions				
<b>Protection class</b>	IP 44				
<b>Total length [l]</b>	438 mm	458 mm	488 mm	518 mm	518 mm
<b>Operating mode</b>	S2 4 min				
<b>Sound pressure level</b>	39 dB(A)				
<b>Diameter</b>	45 mm				
<b>Weight</b>	approx. 1.90 kg	approx. 2.00 kg	approx. 2.20 kg	approx. 2.40 kg	approx. 2.40 kg
<b>Humidity</b>	dry, non-condensing				
<b>Storage temperature</b>	T = -15 °C ... +70 °C				

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

## Drawings:



## Accessories:

	<b>Engine bearer</b>	<b>124</b>		<b>Anti-lift device</b>	<b>136</b>
	<b>Adaptor/driver</b>	<b>130</b>		<b>Radio accessories</b>	<b>181</b>

## PRO.TECline SpindleRadio

Mechanical tubular  
motor Ø 45 mm



### Application:



Rolling shutters



Screens



Awnings



Facade awnings

### Characteristics:

#### Wind proof



The Spindle has no obstacle detection. This allows the blind to move quickly to its protected upper end position in the event of a wind alarm in spite of strong gusts of wind.

#### GEIGER Radio 2.0



The end positions are set via the known spindle screws with a 4 mm socket wrench. The systems are opened and closed comfortably and simply via the new, elegant handheld transmitters.

### Product advantages:

- Mechanical limit switch
- Fixed connection line with open end
- Quick adjustment of the end positions by precise spindle deactivation by socket screws

### End position adjustment:

TOP

Stop on free  
position

BOTTOM

Stop on free  
position

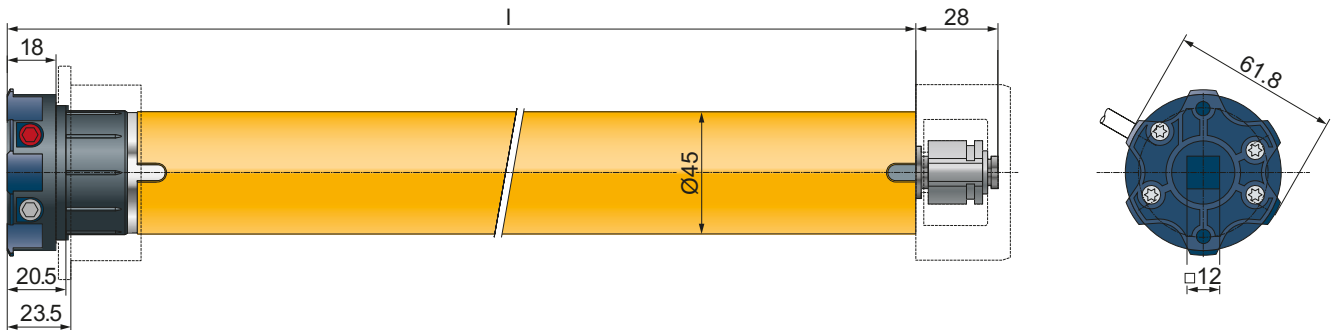
## Technical data:

Technical data tubular motor PRO.TECline SpindleRadio (GB45R-../..)

	GB45R-10/15	GB45R-20/15	GB45R-30/15	GB45R-40/15	GB45R-50/12
<b>Voltage</b>	230V~/50Hz				
<b>Current</b>	0.47 A	0.63 A	0.80 A	1.00 A	1.00 A
<b>Cos Phi (cosφ)</b>	>0.95				
<b>Inrush current (factor)</b>	x 1.2				
<b>Power</b>	105 W	140 W	180 W	220 W	220 W
<b>Torque</b>	10 Nm	20 Nm	30 Nm	40 Nm	50 Nm
<b>Speed</b>	15 rpm	15 rpm	15 rpm	15 rpm	12 rpm
<b>Limit switch-off range</b>	22 revolutions				
<b>Protection class</b>	IP 44				
<b>Total length [l]</b>	558 mm	578 mm	608 mm	638 mm	638 mm
<b>Operating mode</b>	S2 4 min				
<b>Sound pressure level</b>	39 dB(A)				
<b>Diameter</b>	45 mm				
<b>Radio frequency</b>	433 MHz				
<b>Weight</b>	approx. 2.00 kg	approx. 2.10 kg	approx. 2.30 kg	approx. 2.40 kg	approx. 2.50 kg
<b>Humidity</b>	dry, non-condensing				
<b>Storage temperature</b>	T = -15 °C ... +70 °C				

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

## Drawings:



## Accessories:

	Engine bearer	<b>124</b>		Anti-lift device	<b>136</b>
	Adaptor/driver	<b>130</b>		Radio accessories	<b>181</b>

## PRO.TECLine SuperSilent Mechanical tubular motor Ø 45 mm



### Application:



Rolling shutters



Screens



Facade awnings

### Characteristics:

#### SuperSilent



Super silent tubular motor with a noise level of 30 dB(A), particularly suitable for indoor use.

#### Wind proof



The Spindle has no obstacle detection. This allows the blind to move quickly to its protected upper end position in the event of a wind alarm in spite of strong gusts of wind.

### Product advantages:

- Mechanical limit switch
- Fixed connection line with open end
- Quick adjustment of the end positions by precise spindle deactivation by socket screws

### End position adjustment:

<b>TOP</b>	Stop on free position	<b>BOTTOM</b>	Stop on free position
------------	-----------------------	---------------	-----------------------

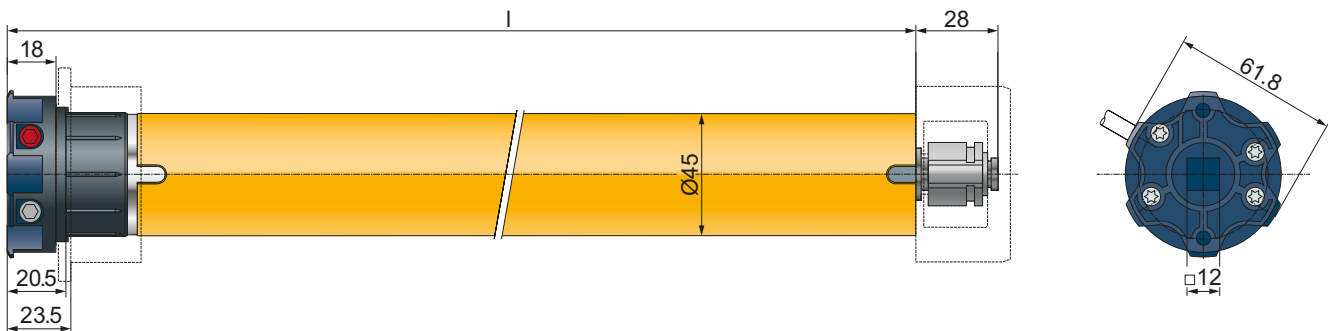
## Technical data:

Technical data tubular motor PRO.TEClime SuperSilent (GB45SS-../...)

	GB45SS-06/26	GB45SS-10/17
Voltage	230V~/50Hz	
Current	0.54 A	0.54 A
Cos Phi ( $\cos\varphi$ )	>0.95	
Inrush current (factor)	x 1.2	
Power	120 W	120 W
Torque	6 Nm	10 Nm
Speed	26 rpm	17 rpm
Limit switch-off range	22 revolutions	
Protection class	IP 44	
Total length [l]	598 mm	
Operating mode	S2 4 min	
Sound pressure level	30 dB(A)	
Diameter	45 mm	
Weight	approx. 2.50 kg	
Humidity	dry, non-condensing	
Storage temperature	T = -15 °C ... +70 °C	

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

## Drawings:



## Accessories:

	Engine bearer	124		Anti-lift device	136
	Adaptor/driver	130		Radio accessories	181

## PRO.TECLine SuperSilentRadio

Mechanical tubular  
motor Ø 45 mm



### Application:



Rolling shutters



Screens



Facade awnings

### Characteristics:

#### SuperSilent



Super silent tubular motor with a noise level of 30 dB(A), particularly suitable for indoor use.

#### Wind proof



The Spindle has no obstacle detection. This allows the blind to move quickly to its protected upper end position in the event of a wind alarm in spite of strong gusts of wind.

#### GEIGER Radio 2.0



The end positions are set via the known spindle screws with a 4 mm socket wrench. The systems are opened and closed comfortably and simply via the new, elegant handheld transmitters.

### Product advantages:

- Mechanical limit switch
- Fixed connection line with open end
- Quick adjustment of the end positions by precise spindle deactivation by socket screws

### End position adjustment:

TOP

Stop on free  
position

BOTTOM

Stop on free  
position

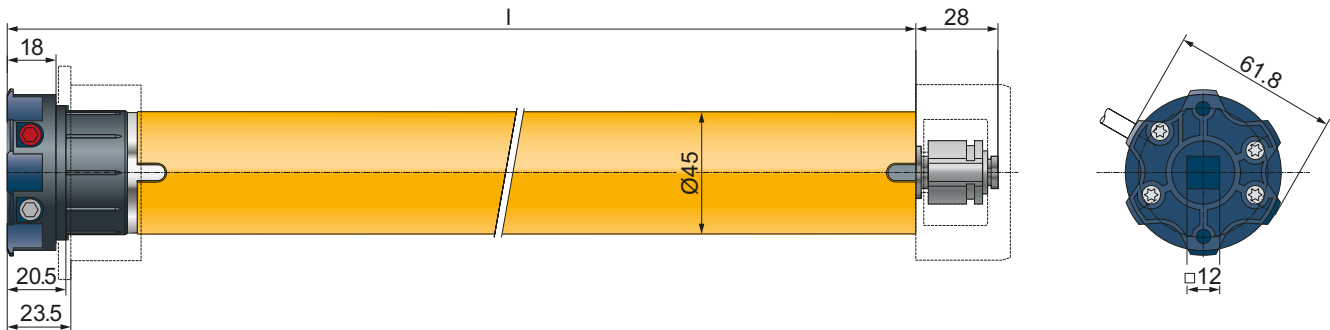
## Technical data:

Technical data tubular motor PRO.TEClime SuperSilentRadio (GB45SR-../..)

	GB45SR-06/26	GB45SR-10/17
Voltage	230V~/50Hz	
Current	0.54 A	0.54 A
Cos Phi ( $\cos\varphi$ )	>0.95	
Inrush current (factor)	x 1.2	
Power	120 W	120 W
Torque	6 Nm	10 Nm
Speed	26 rpm	17 rpm
Limit switch-off range	22 revolutions	
Protection class	IP 44	
Total length [l]	718 mm	
Operating mode	S2 4 min	
Sound pressure level	30 dB(A)	
Diameter	45 mm	
Radio frequency	433 MHz	
Weight	approx. 2.60 kg	
Humidity	dry, non-condensing	
Storage temperature	T = -15 °C ... +70 °C	

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

## Drawings:

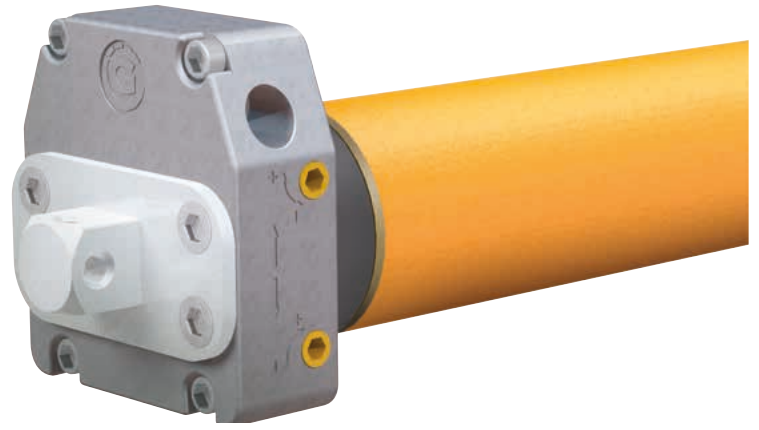


## Accessories:

	Engine bearer	124		Anti-lift device	136
	Adaptor/driver	130		Radio accessories	181

## PRO.TECline Spindle NHK

Mechanical tubular  
motor Ø 45 mm



### Application:



Rolling shutters



Screens



Awnings



Facade awnings

### Characteristics:

#### Wind proof



The Spindle has no obstacle detection. This allows the blind to move quickly to its protected upper end position in the event of a wind alarm in spite of strong gusts of wind.

### Product advantages:

- Mechanical limit switch
- Fixed connection line with open end
- Quick adjustment of the end positions by precise spindle deactivation by socket screws

### End position adjustment:

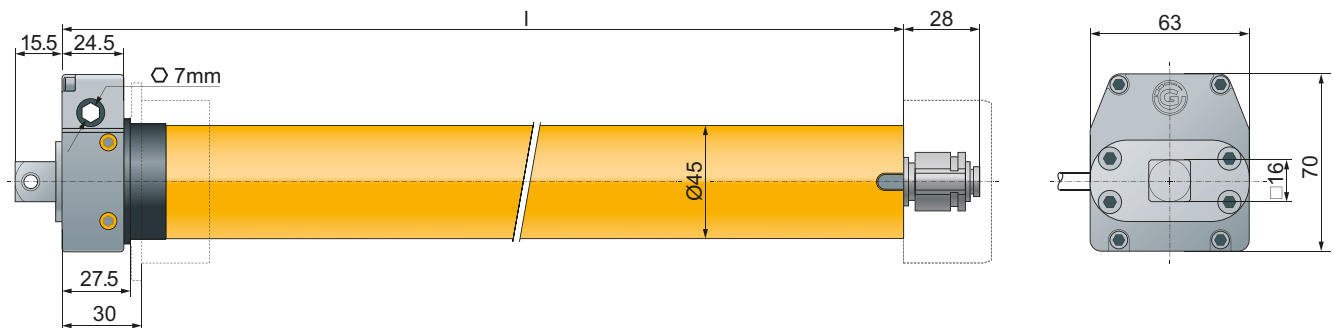
TOP	Stop on free position	BOTTOM	Stop on free position
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## Technical data:

Technical data tubular motor PRO.TEClime Spindle NHK (GB45M-../..)					
	GB45M-10/15	GB45M-20/15	GB45M-30/15	GB45M-40/15	GB45M-50/12
Voltage	230V~/50Hz				
Current	0.47 A	0.63 A	0.80 A	1.00 A	1.00 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	15 rpm	15 rpm	15 rpm	15 rpm	12 rpm
Limit switch-off range	22 revolutions				
Protection class	IP 44				
Total length [l]	528 mm	548 mm	568 mm	588 mm	588 mm
Operating mode	S2 4 min				
Sound pressure level	39 dB(A)		48 dB(A)		48 dB(A)
Diameter	45 mm				
Crank reduction	26:1				
Weight	approx. 2.20 kg	approx. 2.30 kg	approx. 2.50 kg	approx. 2.70 kg	approx. 2.70 kg
Humidity	dry, non-condensing				
Storage temperature	T = -15 °C ... +70 °C				

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

## Drawings:

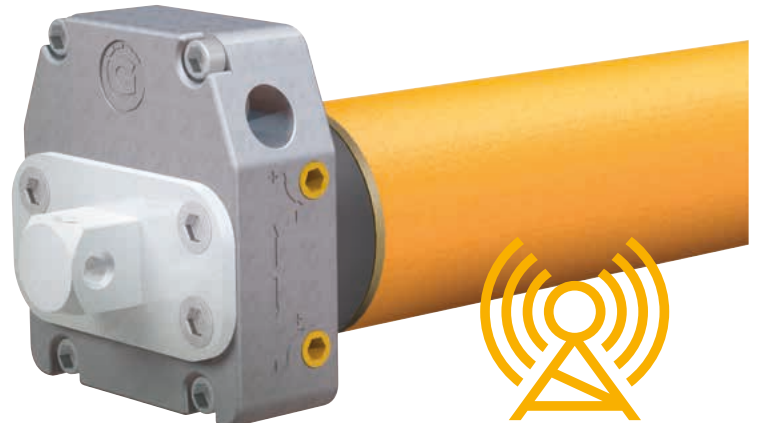


## Accessories:

	Engine bearer	124		Anti-lift device	136
	Adaptor/driver	130		Radio accessories	181

## PRO.TECline SpindleRadio NHK

Mechanical tubular  
motor Ø 45 mm



### Application:



Rolling shutters



Screens



Awnings



Facade awnings

### Characteristics:

#### Wind proof



The Spindle has no obstacle detection. This allows the blind to move quickly to its protected upper end position in the event of a wind alarm in spite of strong gusts of wind.

#### GEIGER Radio 2.0



The end positions are set via the known spindle screws with a 4 mm socket wrench. The systems are opened and closed comfortably and simply via the new, elegant handheld transmitters.

### Product advantages:

- Mechanical limit switch
- Fixed connection line with open end
- Quick adjustment of the end positions by precise spindle deactivation by socket screws

### End position adjustment:

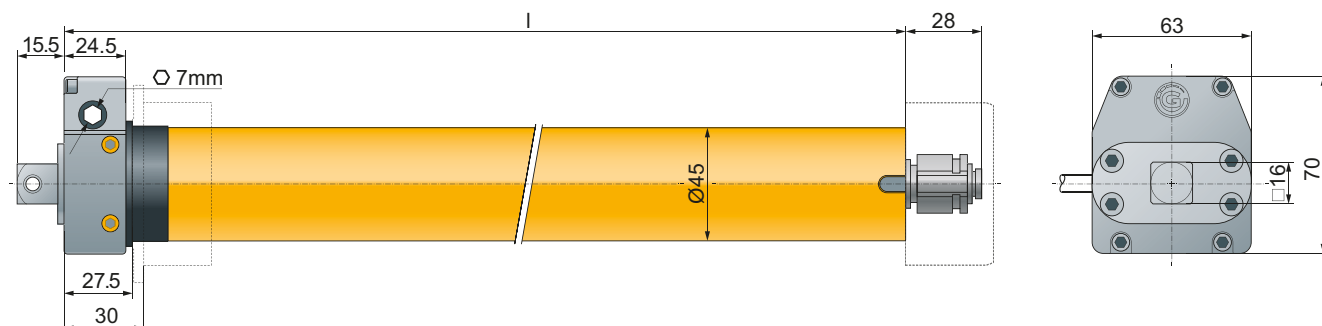
<b>TOP</b>	Stop on free position	<b>BOTTOM</b>	Stop on free position
------------	-----------------------	---------------	-----------------------

## Technical data:

Technical data tubular motor PRO.TEClime SpindleRadio NHK (GB45MR-../..)					
	GB45MR-10/15	GB45MR-20/15	GB45MR-30/15	GB45MR-40/15	GB45MR-50/12
Voltage	230V~/50Hz				
Current	0.47 A	0.63 A	0.80 A	1.00 A	1.00 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	15 rpm	15 rpm	15 rpm	15 rpm	12 rpm
Limit switch-off range	22 revolutions				
Protection class	IP 44				
Total length [l]	648 mm	668 mm	688 mm	708 mm	708 mm
Operating mode	S2 4 min				
Sound pressure level	39 dB(A)		48 dB(A)		48 dB(A)
Diameter	45 mm				
Crank reduction	26:1				
Radio frequency	433 MHz				
Weight	approx. 2.30 kg	approx. 2.40 kg	approx. 2.60 kg	approx. 2.80 kg	approx. 2.80 kg
Humidity	dry, non-condensing				
Storage temperature	T = -15 °C ... +70 °C				

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

## Drawings:



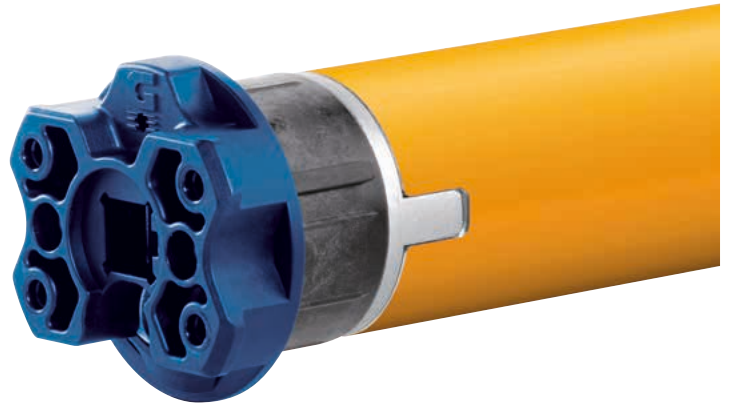
## Accessories:

	Engine bearer	124		Anti-lift device	136
	Adaptor/driver	130		Radio accessories	181

# SOL.TECLine

## Easy

### Electronic tubular motor Ø 45 mm



## Application:



Rolling shutters



Screens



Facade awnings



Open style folding arm awnings

## Characteristics:

### Soft position



The hanging stops before reaching its upper end position to protect the materials.

### Hanging protection

The integrated sensitive motor intelligence ensures that ...

#### ■ Antifreeze protection

... the hangings that are frozen to the windowsill are detected and not torn off.



■ **Obstacle detection in UP direction...** the system is protected during retraction.



### Synchronised position



Consistent switch-off behaviour is always guaranteed, even with different hanging widths or heights. No rolling shutters hanging differently in their upper end positions anymore.

### Burglary resistance



A constant torque cut-off in the DOWN direction allows the rolling shutter to develop its burglary-resistant effect. (Only possible in combination with anti-lifting devices.)

### Referencing



Every 50 cycles, a reference run is carried out to check whether the end positions are right. For this purpose the hanging moves to the upper end position until the drive switches off to torque. The end positions are checked and corrected if necessary.

## Product advantages:

- Electronic limit stop
- Automatic detection left and right installation
- Can be connected in parallel
- Plug-in connection cable in different lengths

## Notices:

- Do not use switches with simultaneous UP/DOWN command
- Programming of the end positions possible via any adjustment cable. Any setting cable that has a programming button or permits simultaneous UP/DOWN commands can be used.

## Options:

- Available with SOC or COM head
- Available with faster motor upon request

## End position adjustment:

TOP	*Stop on torque	BOTTOM	*Stop on torque
	Stop on free position		Stop on free position

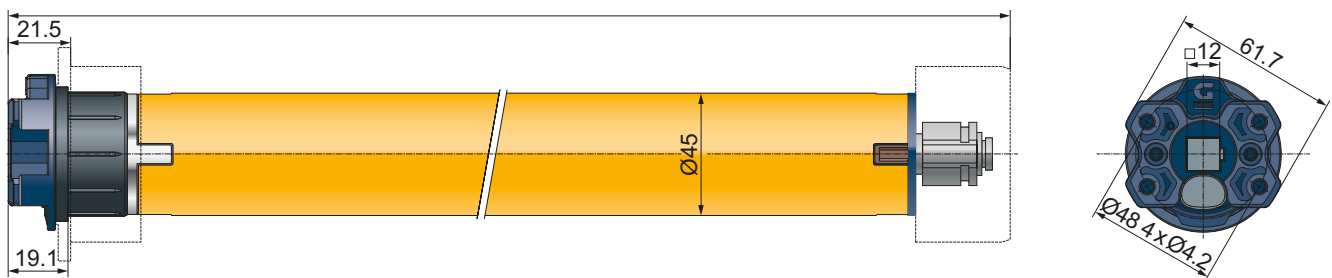
\* Stopper and anti-lift device/rigid tube connector

## Technical data:

Technical data tubular motor SOL.TECline Easy (GB45E01-../..)					
	GB45E01-10/15	GB45E01-20/15	GB45E01-30/15	GB45E01-40/15	GB45E01-50/12
Voltage	230V~/50Hz				
Current	0.47 A	0.63 A	0.80 A	1.00 A	1.00 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	15 rpm	15 rpm	15 rpm	15 rpm	12 rpm
Limit switch-off range	> 200 revolutions				
Protection class	IP 44				
Total length [l]	438 mm	458 mm	488 mm	518 mm	518 mm
Operating mode	S2 4 min				
Sound pressure level	39 dB(A)				
Diameter	45 mm				
Weight	approx. 1.90 kg	approx. 2.00 kg	approx. 2.20 kg	approx. 2.40 kg	approx. 2.40 kg
Humidity	dry, non-condensing				
Storage temperature	T = -15 °C ... +70 °C				

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

## Drawings:



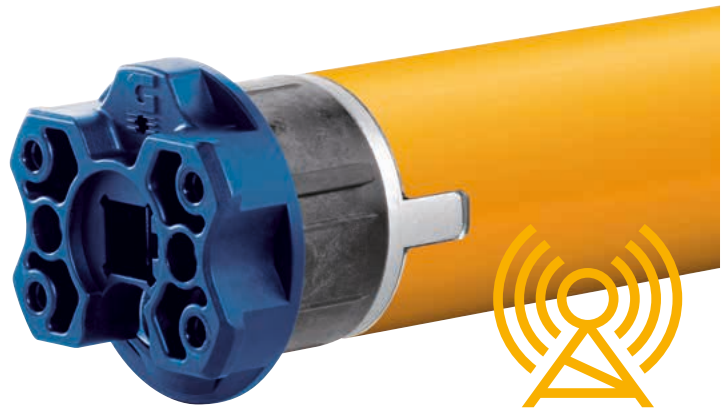
## Accessories:

	Engine bearer	124		Connection cables	134
	Adaptor/driver	130		Anti-lift device	136

# SOL.TECLine

## Easy Radio

Electronic tubular motor Ø 45 mm



### Application:



Rolling shutters



Screens



Facade awnings



Open style folding arm awnings

### Characteristics:

#### Soft position



The hanging stops before reaching its upper end position to protect the materials.

#### Hanging protection

The integrated sensitive motor intelligence ensures that ...

##### ■ Antifreeze protection

... the hangings that are frozen to the windowsill are detected and not torn off.



■ **Obstacle detection in UP direction...** the system is protected during retraction.



#### Synchronised position



Consistent switch-off behaviour is always guaranteed, even with different hanging widths or heights. No rolling shutters hanging differently in their upper end positions anymore.

#### Burglary resistance



A constant torque cut-off in the DOWN direction allows the rolling shutter to develop its burglary-resistant effect. (Only possible in combination with anti-lifting devices.)

#### Referencing



Every 50 cycles, a reference run is carried out to check whether the end positions are right. For this purpose the hanging moves to the upper end position until the drive switches off to torque. The end positions are checked and corrected if necessary.

#### GEIGER Radio 2.0



The unidirectional radio system offers a long range and enables secure communication with remote receivers.

### Product advantages:

- Electronic limit stop
- Automatic detection left and right installation
- Can be connected in parallel
- Plug-in connection cable in different lengths

### Notices:

- Do not use switches with simultaneous UP/DOWN command
- Programming of the end positions possible via any adjustment cable. Any setting cable that has a programming button or permits simultaneous UP/DOWN commands can be used.

### Options:

- Available with SOC or COM head
- Available with faster motor upon request

### End position adjustment:

TOP	*Stop on torque	BOTTOM	*Stop on torque
	Stop on free position		Stop on free position

\* Stopper and anti-lift device/rigid tube connector

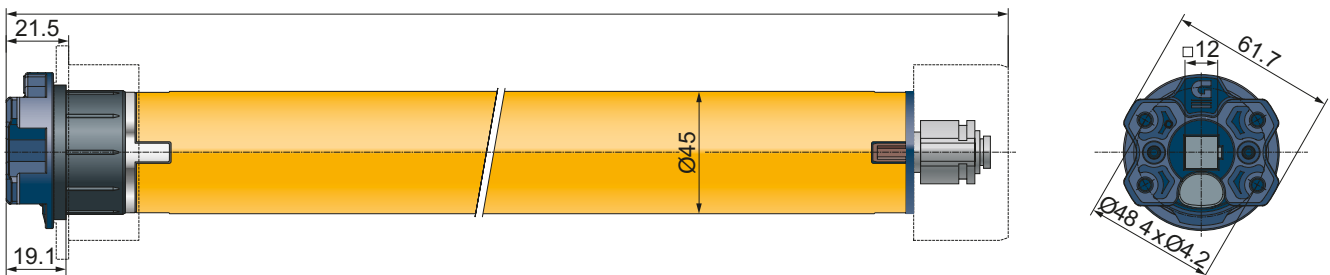
## Technical data:

Technical data tubular motor SOL.TECline Easy Radio (GB45F11-../..)

	GB45F11-10/15	GB45F11-20/15	GB45F11-30/15	GB45F11-40/15	GB45F11-50/12
Voltage	230V~/50Hz				
Current	0.47 A	0.63 A	0.80 A	1.00 A	1.00 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	15 rpm	15 rpm	15 rpm	15 rpm	12 rpm
Limit switch-off range	> 200 revolutions				
Protection class	IP 44				
Total length [l]	438 mm	458 mm	488 mm	518 mm	518 mm
Operating mode	S2 4 min				
Sound pressure level	39 dB(A)				
Diameter	45 mm				
Radio frequency	433 MHz				
Weight	approx. 1.90 kg	approx. 2.00 kg	approx. 2.20 kg	approx. 2.40 kg	approx. 2.40 kg
Humidity	dry, non-condensing				
Storage temperature	T = -15 °C ... +70 °C				

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

## Drawings:



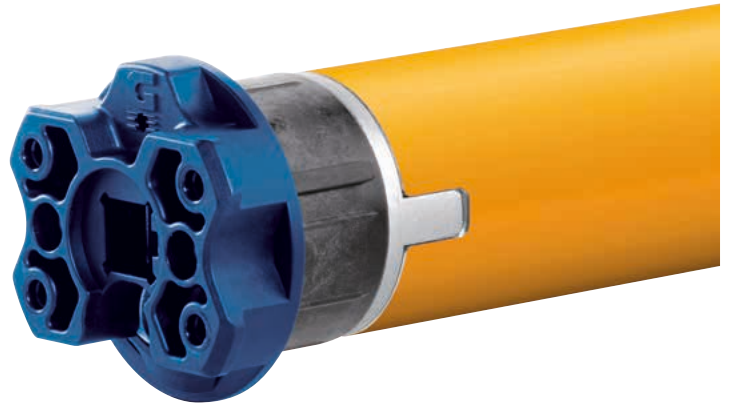
## Accessories:

	Engine bearer	124		Connection cables	134
	Adaptor/driver	130		Anti-lift device	136
	Radio accessories	181			

# SOL.TECLine

## SoftPerfection-X01

Electronic tubular motor Ø 45 mm



### Application:



Rolling shutter

### Characteristics:

#### Delayed teaching



The motor does not learn its actual end positions until the fifth driving cycle.

#### Soft position



The hanging stops before reaching its upper end position to protect the materials.

#### Synchronised position



Consistent switch-off behaviour is always guaranteed, even with different hanging widths or heights. No rolling shutters hanging differently in their upper end positions anymore

#### Plug & Play



Autonomous detection of the end positions without time-consuming adjustment work in the installation procedure. Done in only one up and down movement. (Only when using stoppers and anti-lift devices).

#### Hanging protection

The integrated sensitive motor intelligence ensures that ...

##### ■ Antifreeze protection

... the hangings that are frozen to the windowsill are detected and not torn off.



##### ■ Obstacle detection in UP direction... the system is protected during retraction.



#### Referencing



Every 50 cycles, a reference run is carried out to check whether the end positions are right. For this purpose the hanging moves to the upper end position until the drive switches off to torque. The end positions are checked and corrected if necessary.

### Product advantages:

- Electronic limit stop
- Automatic detection left and right installation
- Can be connected in parallel
- Plug-in connection cable in different lengths
- In learning mode already on delivery

### Notices:

- Do not use switches with simultaneous UP/DOWN command
- Rigid tube connectors and stoppers are essential
- Adjustment of end positions possible via control switch

### Options:

- Available with SOC or COM head
- Available with faster motor upon request

### End position adjustment:

TOP

\*Stop on torque

BOTTOM

\*Stop on torque

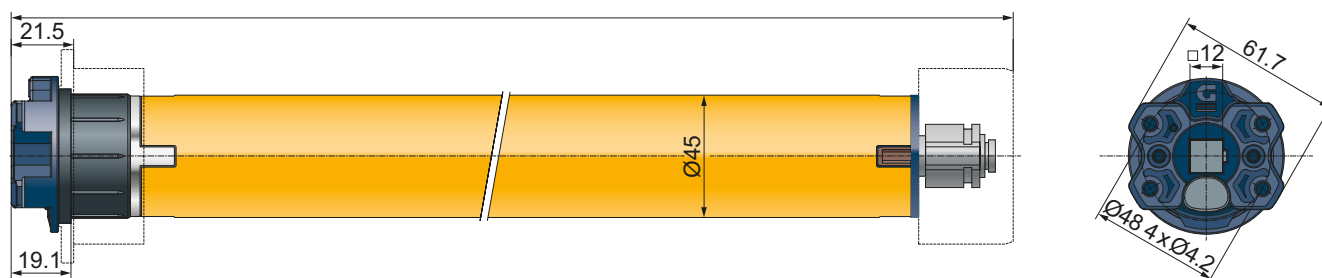
\* Stopper and anti-lift device/rigid tube connector

## Technical data:

Technical data tubular motor SOL.TECline SoftPerfection-X01 (GB45E03-../..)					
	GB45E03-10/15	GB45E03-20/15	GB45E03-30/15	GB45E03-40/15	GB45E03-50/12
Voltage	230V~/50Hz				
Current	0.47 A	0.63 A	0.80 A	1.00 A	1.00 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	15 rpm	15 rpm	15 rpm	15 rpm	12 rpm
Limit switch-off range	> 200 revolutions				
Protection class	IP 44				
Total length [l]	438 mm	458 mm	488 mm	518 mm	518 mm
Operating mode	S2 4 min				
Sound pressure level	39 dB(A)				
Diameter	45 mm				
Weight	approx. 1.90 kg	approx. 2.00 kg	approx. 2.20 kg	approx. 2.40 kg	approx. 2.40 kg
Humidity	dry, non-condensing				
Storage temperature	T = -15 °C ... +70 °C				

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

## Drawings:



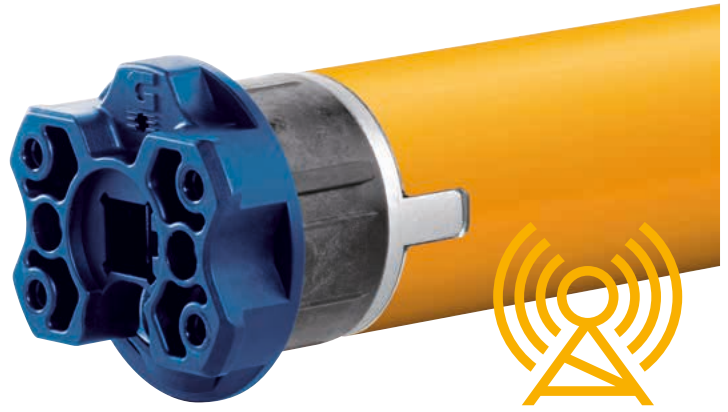
## Accessories:

	Engine bearer	<b>124</b>		Connection cables	<b>134</b>
	Adaptor/driver	<b>130</b>		Anti-lift device	<b>136</b>

# SOL.TECLiDline

## X01 Radio

Electronic tubular motor Ø 45 mm



### Application:



Rolling shutter

### Characteristics:

#### Delayed teaching



The motor does not learn its actual end positions until the fifth driving cycle.

#### Soft position



The hanging stops before reaching its upper end position to protect the materials.

#### Synchronised position



Consistent switch-off behaviour is always guaranteed, even with different hanging widths or heights. No rolling shutters hanging differently in their upper end positions anymore

#### Plug & Play



Autonomous detection of the end positions without time-consuming adjustment work in the installation procedure. Done in only one up and down movement. (Only when using stoppers and anti-lift devices).

#### Hanging protection

The integrated sensitive motor intelligence ensures that ...

##### ■ Antifreeze protection

... the hangings that are frozen to the windowsill are detected and not torn off.



##### ■ Obstacle detection in UP direction... the system is protected during retraction.



#### Referencing



Every 50 cycles, a reference run is carried out to check whether the end positions are right. For this purpose the hanging moves to the upper end position until the drive switches off to torque. The end positions are checked and corrected if necessary.

#### GEIGER Radio 2.0



The unidirectional radio system offers a long range and enables secure communication with remote receivers.

### Product advantages:

- Electronic limit stop
- Automatic detection left and right installation
- Can be connected in parallel
- Plug-in connection cable in different lengths
- In learning mode already on delivery

### Notices:

- Do not use switches with simultaneous UP/DOWN command
- Rigid tube connectors and stoppers are essential
- Adjustment of end positions possible via control switch or handheld transmitter

### Options:

- Available with SOC or COM head
- Available with faster motor upon request

### End position adjustment:

TOP	*Stop on torque	BOTTOM	*Stop on torque
-----	-----------------	--------	-----------------

\* Stopper and anti-lift device/rigid tube connector

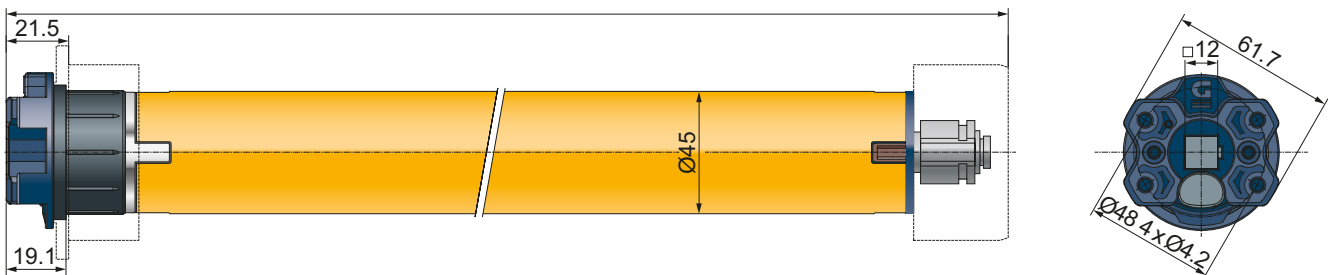
## Technical data:

Technical data tubular motor SOL.TEClime X01 Radio (GB45F12-../..)

	GB45F12-10/15	GB45F12-20/15	GB45F12-30/15	GB45F12-40/15	GB45F12-50/12
Voltage	230V~/50Hz				
Current	0.47 A	0.63 A	0.80 A	1.00 A	1.00 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	15 rpm	15 rpm	15 rpm	15 rpm	12 rpm
Limit switch-off range	> 200 revolutions				
Protection class	IP 44				
Total length [l]	438 mm	458 mm	488 mm	518 mm	518 mm
Operating mode	S2 4 min				
Sound pressure level	39 dB(A)				
Diameter	45 mm				
Radio frequency	433 MHz				
Weight	approx. 1.90 kg	approx. 2.00 kg	approx. 2.20 kg	approx. 2.40 kg	approx. 2.40 kg
Humidity	dry, non-condensing				
Storage temperature	T = -15 °C ... +70 °C				

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

## Drawings:

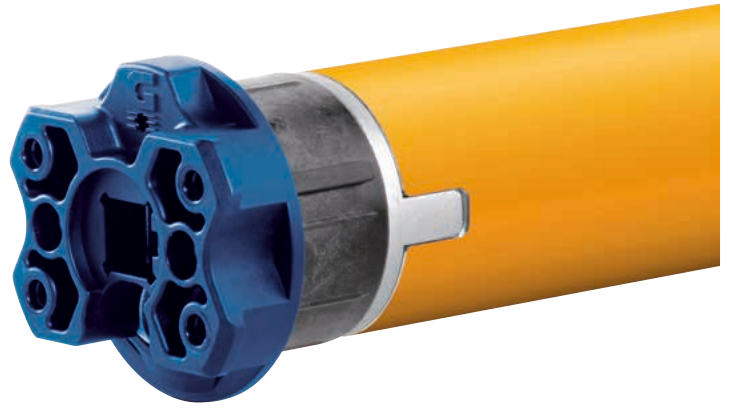


## Accessories:

	Engine bearer	124		Connection cables	134
	Adaptor/driver	130		Anti-lift device	136
	Radio accessories	181			

# SOL.TECline SoftPlus-Qi

## Electronic tubular motor Ø 45 mm



### Application:



Cassette awnings

### Characteristics:

#### Plug & Play



Autonomous detection of the upper end positions without time-consuming adjustment work in the installation procedure. Done in only one up and down movement.

#### Driving range detection



The motor recognises which driving range it is in while driving. As a result, it works with as much or as little power as is actually required in the respective driving range. The SoftPlus-Qi is exceptionally powerful in the folding point area of the awning, but particularly sensitive in the closing area. This ensures a long service life for the system.

#### Hanging protection

The integrated sensitive motor intelligence ensures that ...

##### ■ Obstacle detection in UP direction

... the system is protected during retraction.



#### Referencing



Every 50 cycles, a reference run is carried out to check whether the end positions are right. For this purpose the hanging moves to the upper end position until the drive switches off to torque. The end positions are checked and corrected if necessary.

### Product advantages:

- Electronic limit stop
- Automatic detection left and right installation
- Can be connected in parallel
- Plug-in connection cable in different lengths
- In learning mode already on delivery

### Notices:

- Do not use switches with simultaneous UP/DOWN command
- Programming of the end positions possible via any adjustment cable. Any setting cable that has a programming button or permits simultaneous UP/DOWN commands can be used.

### Options:

- Available with SOC or COM head
- Available with faster motor upon request

### End position adjustment:

TOP	Stop on torque	BOTTOM	Stop on free position
-----	----------------	--------	-----------------------

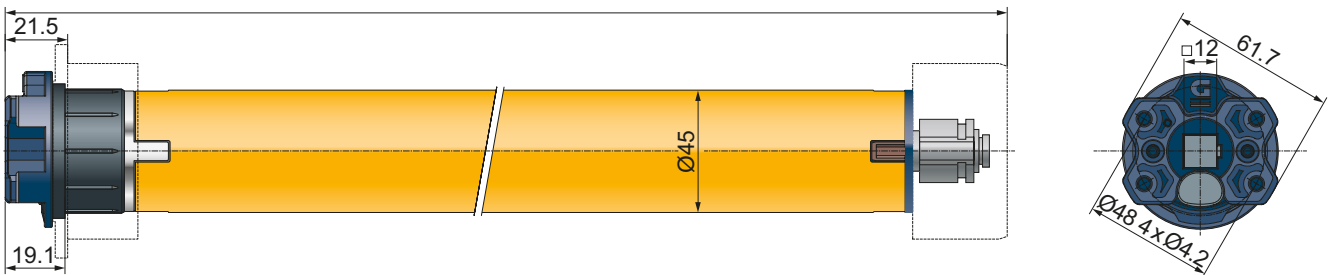
## Technical data:

Technical data tubular motor SOL.TECline SoftPlus-Qi (GB45E09-../..)




	GB45E09-10/15	GB45E09-20/15	GB45E09-30/15	GB45E09-40/15	GB45E09-50/12
Voltage	230V~/50Hz				
Current	0.47 A	0.63 A	0.80 A	1.00 A	1.00 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	15 rpm	15 rpm	15 rpm	15 rpm	12 rpm
Limit switch-off range	> 200 revolutions				
Protection class	IP 44				
Total length [l]	438 mm	458 mm	488 mm	518 mm	518 mm
Operating mode	S2 4 min				
Sound pressure level	39 dB(A)				
Diameter	45 mm				
Weight	approx. 1.90 kg	approx. 2.00 kg	approx. 2.20 kg	approx. 2.40 kg	approx. 2.40 kg
Humidity	dry, non-condensing				
Storage temperature	T = -15 °C ... +70 °C				

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

## Drawings:



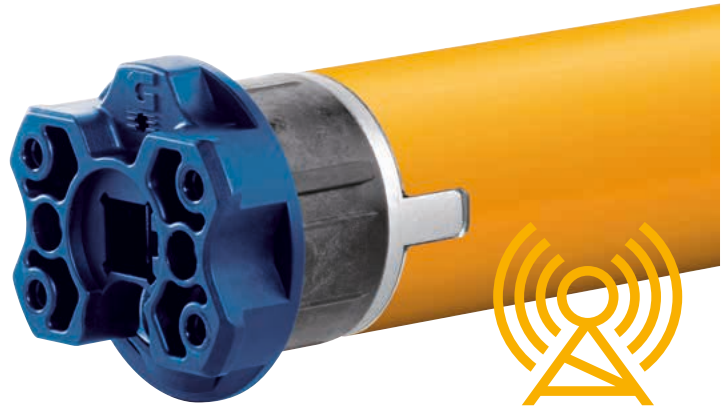
## Accessories:

	Engine bearer	124		Connection cables	134
	Adaptor/driver	130		Radio accessories	181

# SOL.TECLine

## Qi Radio

Electronic tubular motor Ø 45 mm



### Application:



Cassette awnings

### Characteristics:

#### Plug & Play



Autonomous detection of the upper end positions without time-consuming adjustment work in the installation procedure. Done in only one up and down movement.

#### Driving range detection



The motor recognises which driving range it is in while driving. As a result, it works with as much or as little power as is actually required in the respective driving range. The SoftPlus-QI is exceptionally powerful in the folding point area of the awning, but particularly sensitive in the closing area. This ensures a long service life for the system.

#### Hanging protection

The integrated sensitive motor intelligence ensures that ...

##### ■ Obstacle detection in UP direction

... the system is protected during retraction.



#### Referencing



Every 50 cycles, a reference run is carried out to check whether the end positions are right. For this purpose the hanging moves to the upper end position until the drive switches off to torque. The end positions are checked and corrected if necessary.

#### GEIGER Radio 2.0



The unidirectional radio system offers a long range and enables secure communication with remote receivers.

### Product advantages:

- Electronic limit stop
- Automatic detection left and right installation
- Can be connected in parallel
- Plug-in connection cable in different lengths
- In learning mode already on delivery

### Notices:

- Do not use switches with simultaneous UP/DOWN command
- Programming of the end positions possible via any adjustment cable. Any setting cable that has a programming button or permits simultaneous UP/DOWN commands can be used.

### Options:

- Available with SOC or COM head
- Available with faster motor upon request

### End position adjustment:

TOP	Stop on torque	BOTTOM	Stop on free position
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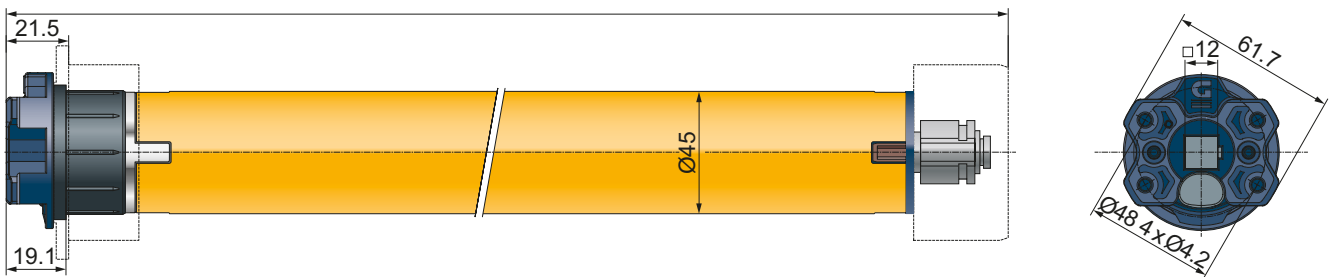
## Technical data:

Technical data tubular motor SOL.TECline Qi Radio (GB45F13-../..)




	GB45F13-10/15	GB45F13-20/15	GB45F13-30/15	GB45F13-40/15	GB45F13-50/12
Voltage	230V~/50Hz				
Current	0.47 A	0.63 A	0.80 A	1.00 A	1.00 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	15 rpm	15 rpm	15 rpm	15 rpm	12 rpm
Limit switch-off range	> 200 revolutions				
Protection class	IP 44				
Total length [l]	438 mm	458 mm	488 mm	518 mm	518 mm
Operating mode	S2 4 min				
Sound pressure level	39 dB(A)				
Diameter	45 mm				
Radio frequency	433 MHz				
Weight	approx. 1.90 kg	approx. 2.00 kg	approx. 2.20 kg	approx. 2.40 kg	approx. 2.40 kg
Humidity	dry, non-condensing				
Storage temperature	T = -15 °C ... +70 °C				

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

## Drawings:



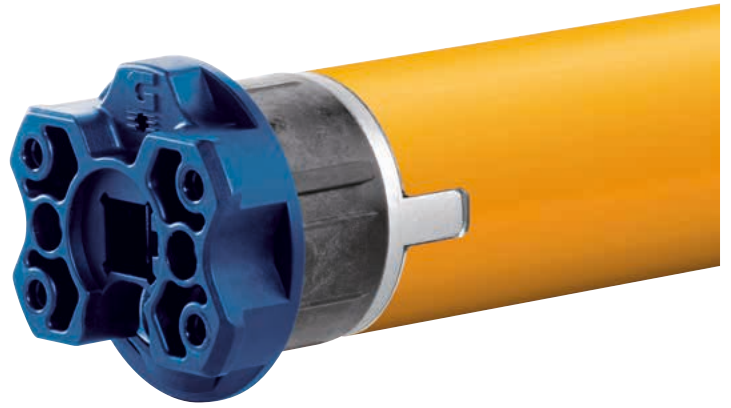
## Accessories:

	Engine bearer	124		Connection cables	134
	Adaptor/driver	130		Radio accessories	181

# SOL.TECLine

## ZIP-Perfection

### Electronic tubular motor Ø 45 mm



## Application:



ZIP screens

## Characteristics:

### Plug & Play



Autonomous detection of the end positions without time-consuming adjustment work in the installation procedure. Done in only one up and down movement. Fast and precise adjustment of the end positions.

### DualStop-Control



If the system detects an obstacle, the motor moves the hanging in the opposite direction at a fixed value. After two further unsuccessful attempts, the system moves to its safety position (upper end position). This applies in UP and DOWN direction.

### Wind resilience



Obstacle detection can differentiate between an obstacle and a gust of wind. The hanging will safely move to its upper end position in the event of a gust of wind in the UP direction to protect the system and prevent damage to the hanging.

### Slowmotion detection



The motor recognises the system status and can detect changes in winding behaviour. If the hanging moves too slowly in the DOWN direction and the end rail threatens to tilt, the motor will stop automatically to protect the system and the hanging.

### Hanging protection

The integrated sensitive motor intelligence ensures that ...

#### ■ Antifreeze protection

... the hangings that are frozen to the windowsill are detected and not torn off.



#### ■ Soft position

... the hanging will stop before reaching the upper end position to protect the materials.



#### ■ Blocking detection in AB direction

... Obstacles are recognised. The drive stops and thus protects the blind.



#### ■ Obstacle detection in UP direction

... the system is protected during retraction.



### Referencing



Every 50 cycles, a reference run is carried out to check whether the end positions are right. For this purpose the hanging moves to the upper end position until the drive switches off to torque. The end positions are checked and corrected if necessary.

### Crushing protection



This function prevents fingers or other objects from being crushed or damaged.

## Product advantages:

- Electronic limit stop
- Easy commissioning: Plug & Play
- Can be connected in parallel
- Plug-in connection cable in different lengths

## Notices:

- Do not use switches with simultaneous UP/DOWN command
- Programming of the end positions possible via any adjustment cable. Any setting cable that has a programming button or permits simultaneous UP/DOWN commands can be used.

## Options:

- Available with SOC, ROC, or COM head
- Available with faster motor upon request

## End position adjustment:

<b>TOP</b>	*Stop on torque	<b>BOTTOM</b>	*Stop on torque
	Stop on free position		Stop on free position

\* Stopper and anti-lift device/rigid tube connector

## Technical data:

Technical data tubular motor SOL.TECline ZIP-Perfection (GB45E11-../..)					
	GB45E11-10/15	GB45E11-20/15	GB45E11-30/15	GB45E11-40/15	GB45E11-50/12
Voltage	230V~/50Hz				
Current	0.47 A	0.63 A	0.80 A	1.00 A	1.00 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	15 rpm	15 rpm	15 rpm	15 rpm	12 rpm
Limit switch-off range	> 200 revolutions				
Protection class	IP 44				
Total length [l] <sup>1)</sup>	438 mm	458 mm	488 mm	518 mm	518 mm
Operating mode	S2 4 min				
Sound pressure level <sup>2)</sup>	39 dB(A)				
Diameter	45 mm				
Weight	approx. 1.90 kg	approx. 2.00 kg	approx. 2.20 kg	approx. 2.40 kg	approx. 2.40 kg
Humidity	dry, non-condensing				
Storage temperature	T = -15 °C ... +70 °C				

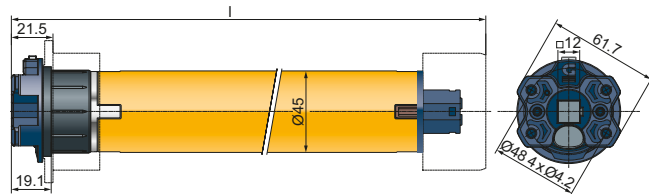
<sup>1)</sup> SOLIDline-ROC: + 5.9 mm / SOLIDline-COM: + 4.2 mm

<sup>2)</sup> 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.

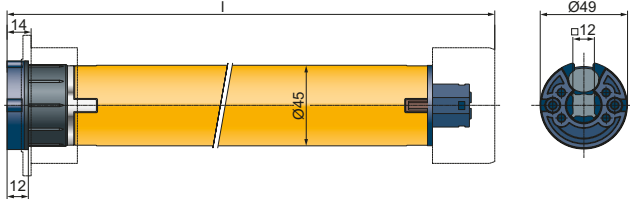
Subject to technical changes. Find information to the ambient temperature range of our GEIGER motors under [www.geiger.de](http://www.geiger.de)

## Drawings:

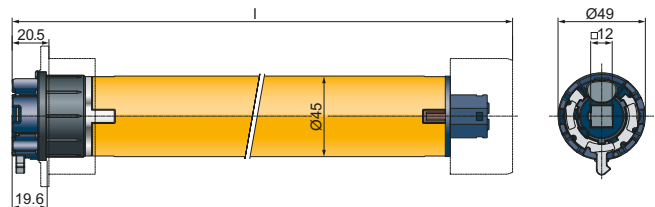
### SOC:







### ROC:



### COM:

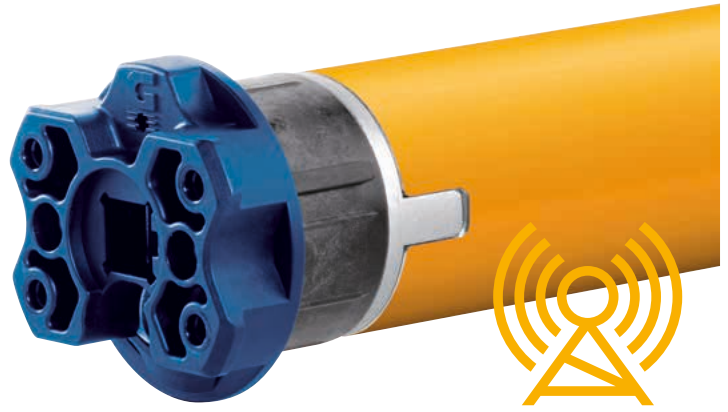


## Accessories:

	Engine bearer	124		Connection cables	134
	Adaptor/driver	130		Radio accessories	181

# SOL.TECLine ZIP Radio

Electronic tubular  
motor Ø 45 mm



## Application:



ZIP screens

## Characteristics:

### Plug & Play



Autonomous detection of the end positions without time-consuming adjustment work in the installation procedure. Done in only one up and down movement. Fast and precise adjustment of the end positions.

### DualStop-Control



If the system detects an obstacle, the motor moves the hanging in the opposite direction at a fixed value. After two further unsuccessful attempts, the system moves to its safety position (upper end position). This applies in UP and DOWN direction.

### Wind resilience



Obstacle detection can differentiate between an obstacle and a gust of wind. The hanging will safely move to its upper end position in the event of a gust of wind in the UP direction to protect the system and prevent damage to the hanging.

### Slowmotion detection



The motor recognises the system status and can detect changes in winding behaviour. If the hanging moves too slowly in the DOWN direction and the end rail threatens to tilt, the motor will stop automatically to protect the system and the hanging.

### Hanging protection

The integrated sensitive motor intelligence ensures that ...

#### ■ Antifreeze protection

... the hangings that are frozen on the windowsill are detected and not torn off.



#### ■ Soft position

... the hanging will stop before reaching the upper end position to protect the materials.



#### ■ Blocking detection in AB direction

... Obstacles are recognised. The drive stops and thus protects the blind.



#### ■ Obstacle detection in UP direction

... the system is protected during retraction.



### Referencing



Every 50 cycles, a reference run is carried out to check whether the end positions are right. For this purpose the hanging moves to the upper end position until the drive switches off to torque. The end positions are checked and corrected if necessary.

### Crushing protection



This function prevents fingers or other objects from being crushed or damaged.

### GEIGER Radio 2.0



The unidirectional radio system offers a long range and enables secure communication with remote receivers.

## Product advantages:

- Electronic limit stop
- Easy commissioning: Plug & Play
- Can be connected in parallel
- Plug-in connection cable in different lengths

## Notices:

- Do not use switches with simultaneous UP/DOWN command
- Programming of the end positions possible via any adjustment cable. Any setting cable that has a programming button or permits simultaneous UP/DOWN commands can be used.

## Options:

- Available with SOC, ROC, or COM head
- Available with faster motor upon request

## End position adjustment:

TOP	*Stop on torque	BOTTOM	*Stop on torque
	Stop on free position		Stop on free position

\* Stopper and anti-lift device/rigid tube connector

## Technical data:

Technical data tubular motor SOL.TECline ZIP Radio (GB45F14-../..)					
	GB45F14-10/15	GB45F14-20/15	GB45F14-30/15	GB45F14-40/15	GB45F14-50/12
Voltage	230V~/50Hz				
Current	0.47 A	0.63 A	0.80 A	1.00 A	1.00 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	15 rpm	15 rpm	15 rpm	15 rpm	12 rpm
Limit switch-off range	> 200 revolutions				
Protection class	IP 44				
Total length [l] <sup>1)</sup>	438 mm	458 mm	488 mm	518 mm	518 mm
Operating mode	S2 4 min				
Sound pressure level <sup>2)</sup>	39 dB(A)				
Diameter	45 mm				
Radio frequency	433 MHz				
Weight	approx. 1.90 kg	approx. 2.00 kg	approx. 2.20 kg	approx. 2.40 kg	approx. 2.40 kg
Humidity	dry, non-condensing				
Storage temperature	T = -15 °C ... +70 °C				

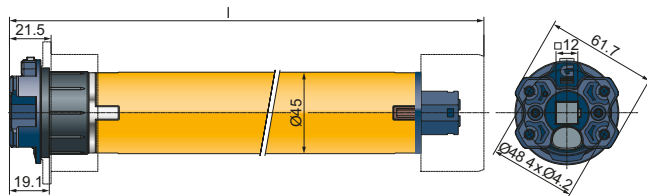
<sup>1)</sup> SOLIDline-ROC: + 5.9 mm / SOLIDline-COM: + 4.2 mm

<sup>2)</sup> 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.

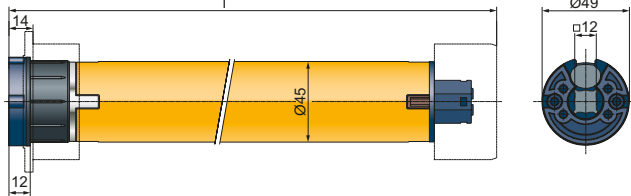
Subject to technical changes. Find information to the ambient temperature range of our GEIGER motors under [www.geiger.de](http://www.geiger.de)

## Drawings:

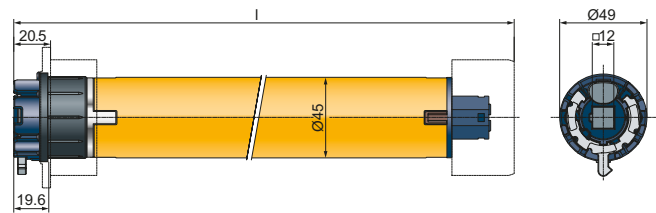
### SOC:





### ROC:



### COM:

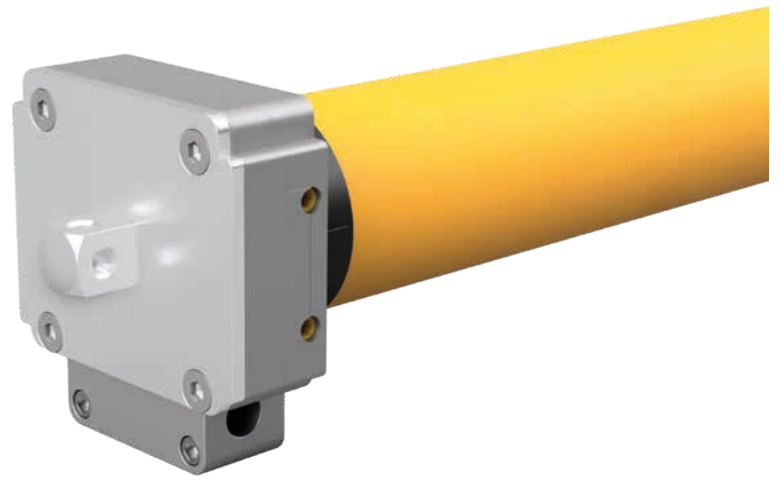


## Accessories:

	Engine bearer	124		Connection cables	134
	Adaptor/driver	130		Radio accessories	181

## POWER.TECLine Spindle NHK

Mechanical tubular  
motor Ø 59 mm



### Application:



Rolling shutters



Awnings



Roller gates

### Characteristics:

#### Wind proof



The Spindle has no obstacle detection. This allows the blind to move quickly to its protected upper end position in the event of a wind alarm in spite of strong gusts of wind.

### Product advantages:

- Mechanical limit switch
- Fixed connection line with open end
- Quick adjustment of the end positions by precise spindle deactivation by socket screws

### End position adjustment:

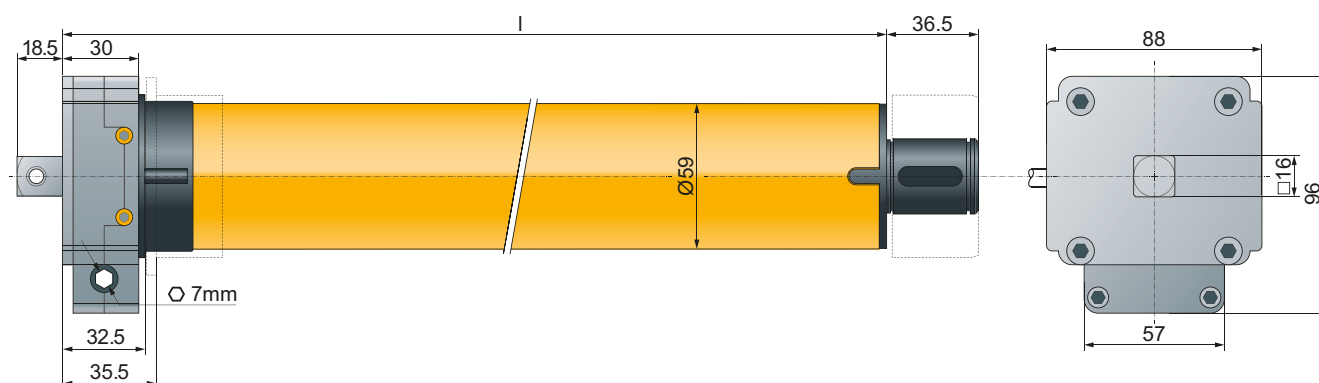
<b>TOP</b>	Stop on free position	<b>BOTTOM</b>	Stop on free position
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## Technical data:

Technical data tubular motor POWER.TECline Spindle NHK (GB59M-../..)				
	GB59M-80/12	GB59M-100/12	GB59M-120/09	GB59M-140/09
Voltage	230V~/50Hz			
Current	1.20 A	1.65 A	1.20 A	1.65 A
Cos Phi (cosφ)	>0.95			
Inrush current (factor)	x 1.2			
Power	270 W	365 W	270 W	365 W
Torque	80 Nm	100 Nm	120 Nm	140 Nm
Speed	12 rpm	12 rpm	9 rpm	9 rpm
Limit switch-off range	24 revolutions			
Protection class	IP 44			
Total length [l]	678 mm	678 mm	723 mm	723 mm
Operating mode	S2 4 min			
Sound pressure level	48 dB(A)			
Diameter	59 mm			
Crank reduction	45:1			
Weight	approx. 6.40 kg	approx. 6.40 kg	approx. 6.40 kg	approx. 6.40 kg
Humidity	dry, non-condensing			
Storage temperature	T = -15 °C ... +70 °C			

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

## Drawings:

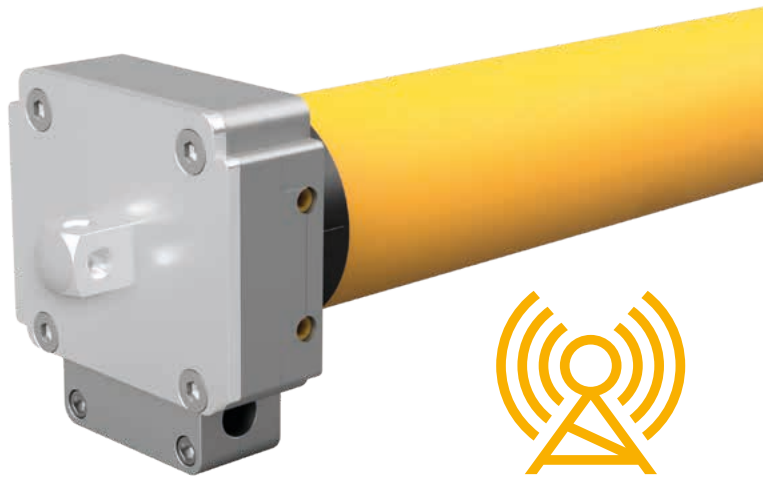


## Accessories:

	Engine bearer	124		Anti-lift device	136
	Adaptor/driver	130		Radio accessories	181

## POWER.TEClime SpindleRadio NHK

Mechanical tubular  
motor Ø 59 mm



### Application:



Rolling shutters



Awnings



Roller gates

### Characteristics:

#### Wind proof



The Spindle has no obstacle detection. This allows the blind to move quickly to its protected upper end position in the event of a wind alarm in spite of strong gusts of wind.

#### GEIGER Radio 2.0



The unidirectional radio system offers a long range and enables secure communication with remote receivers.

### Product advantages:

- Mechanical limit switch
- Fixed connection line with open end
- Quick adjustment of the end positions by precise spindle deactivation by socket screws

### End position adjustment:

TOP

Stop on free  
position

BOTTOM

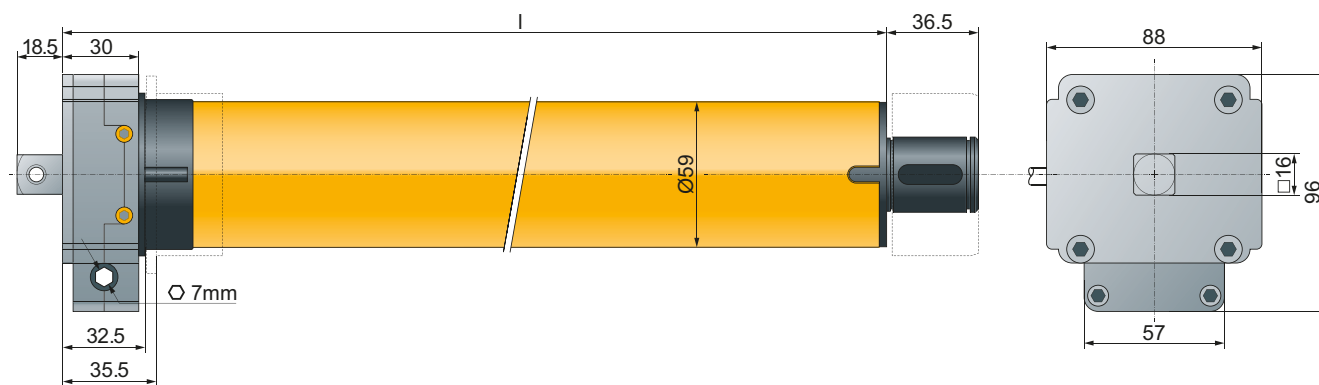
Stop on free  
position

## Technical data:


Technical data tubular motor POWER.TECline SpindleRadio NHK (GB59MR-../..)				
	GB59MR-80/12	GB59MR-100/12	GB59MR-120/09	GB59MR-140/09
Voltage	230V~/50Hz			
Current	1.20 A	1.65 A	1.20 A	1.65 A
Cos Phi ( $\cos\varphi$ )	>0.95			
Inrush current (factor)	x 1.2			
Power	270 W	365 W	270 W	365 W
Torque	80 Nm	100 Nm	120 Nm	140 Nm
Speed	12 rpm	12 rpm	9 rpm	9 rpm
Limit switch-off range	24 revolutions			
Protection class	IP 44			
Total length [l]	798 mm	798 mm	843 mm	843 mm
Operating mode	S2 4 min			
Sound pressure level	48 dB(A)			
Diameter	59 mm			
Crank reduction	45:1			
Radio frequency	433 MHz			
Weight	approx. 6.50 kg	approx. 6.50 kg	approx. 6.50 kg	approx. 6.50 kg
Humidity	dry, non-condensing			
Storage temperature	T = -15 °C ... +70 °C			

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

## Drawings:



## Accessories:

	Engine bearer	124		Anti-lift device	136
	Adaptor/driver	130		Radio accessories	181

**Gerhard Geiger GmbH & Co. KG**  
Schleifmühle 6 | D-74321 Bietigheim-Bissingen  
T +49 (0) 7142 9380 | F +49 (0) 7142 938 230  
info@geiger.de | www.geiger.de

**GEIGER**  
**ANTRIEBSTECHNIK**