EXTERNAL BLINDS AND VENETIAN BLINDS

DRIVE SOLUTIONS

GEIGER
ANTRIEBSTECHNIK

SIMPLY MORE DAYLIGHT

External blinds are lighting experts – and just perfect for large glass surfaces. With their flexible adjustable slats, they regulate the daylight so that brightness, temperature and privacy are well balanced in every room. Manually, radio-controlled, or fully automated in a building control system.

FEATURES

DESIGN

The right look – function and design in harmony at GEIGER. The more precisely an external Venetian blind operates and the more discreetly can it be integrated into facades, and the higher the quality of its appearance.

Suitable for all common head rails

Due to their modular design, our external blind drives can be fitted into any standard head rail. No matter the box dimensions, slat shapes or control systems are provided – virtually all installation situations can be covered up. This includes connected drives and solutions for the second escape route. Even retrofitting is no problem with our simple, tool-less fixation kits.

Referencing

The bands on newly installed external blinds often stretch. This has visible consequences after a while: The element hangs further down in the upper end position than set during mounting. The optional referencing function is suitable for Electronic drives adapt the motor control to the changed winding behaviour: It checks the end positions of the external blind in certain cycles. This is how the hanging can target the originally set distance exactly even after years. Follow-up costs for manufacturers and end customers are reduced to a minimum and the longevity of the systems is maximised.

PROTECTION

Carefree enjoyment – with smart drives that automatically protect the sun protection from wear and damage. This not only protects valuable hangings but also reduces stress on your nerves and your wallet.

Safety shutdown

With the integrated limit switch from GEIGER, incorrect operation of the sensitive external blinds is reduced to a minimum. Because in addition to the referencing function, the switch works like an "emergency button": It stops the hanging in its upper end position before the entire slat package is moved too deeply into the aperture. This means that the end positions of all parallel hangings can be set at exactly the same height and the external Venetian blinds remain undamaged.

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 or dust. The sensitive power cut-off registers any obstacle, protects the blind and ensures long-lasting sun protection.

CONNECTING

Gateway to the smart world – every external blind, whether for detached houses or for large objects, can be interconnected with the help of the matching GEIGER drive. Large sun protection systems can thus be monitored and controlled very easily. We offer drives and users greater functionality and security throughout the building with connected sun protection.

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 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.

FEATURES

SMI interface for sun protection control

GEIGER SMI drives offer a standardised interface for shading elements. The individual drives are able to communicate seamlessly without a drive via the SMI (Standard Motor Interface) protocol established on the market. This enables control of entire sun protection systems via building automation. The sub-bus system is specifically adapted to
these requirements and a particularly economical
solution for planners and electricians.

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-in cables and tool-free mounting

Our drives have plug-in connecting cables. Their motors can be connected to or disconnected from the mains in the blink of an eye during retrofitting or replacement. 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 external blind manufacturers. We keep subsequent installation in mind from the development stage, customising our mounting accessories precisely to any requirements our customers may have.

Simple end position adjustment

End position programming is an important and often complicated part of mounting. We have, therefore, made setting the end positions as simple as possible.

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.

SILENT drives

Our SILENT drives are extremely quiet among sun protection motors: They will be equipped with both an improved transmission and an optimised braking system. Both ensure a significant reduction in overall noise emissions. Special rubber damping elements also prevent sound transmission to the housing and reduce vibrations. The built-in drive is also a master of whispers.

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FEATURES

COMFORT

Compromise is a thing of the past – slats can be positioned precisely even with fast-moving hangings.

One drive, two speeds

DuoDrive – the name of our comfort drive says it all. It merges two apparent opposites. This is because its automatic switching gear unit combines two different speeds: The motor turns very slowly during its start-up phase. After three quarters of a turn, the gear shifts up to high speed. This allows the slats to be positioned precisely and adjusted sensitively. The subsequent fast travelling movement not only offers more comfort, but also more safety in the event of a wind alarm.

SPECIALISTS

In use all over the world – our special drives are at home everywhere and can cope with extreme conditions. No matter if
used in great heat or with a different power supply: GEIGER has the right drive.

Highest temperature resistance

The T90 from GEIGER remains perfectly reliable even when things get hot. This is because the external blind drive was developed for permanent use at high temperatures. Its special materials make it ideal for hot climate zones or closed facade systems with intensive solar radiation. We confidently guarantee the use of the T90 in a temperature range from -20 °C to +90 °C after tests under most demanding conditions.

Mains voltage with 100 V

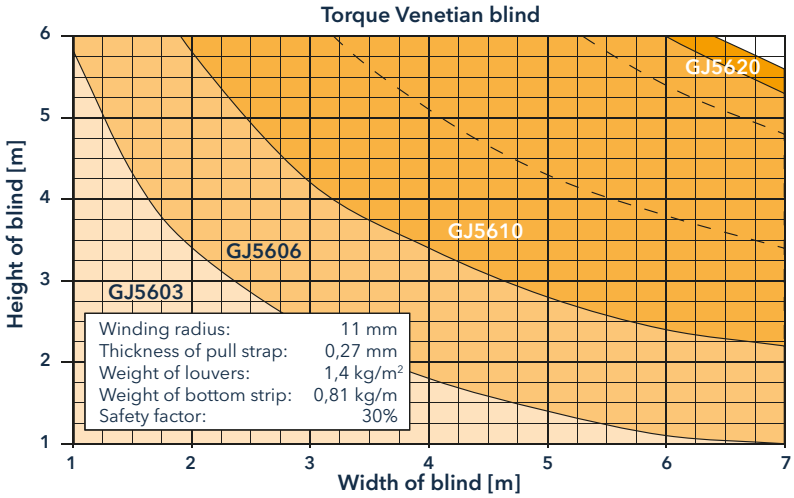
The mains voltage for the power supply is not always the standard 230 V in Germany. But that's no problem for GEIGER: We also have matching external Venetian blind drive in our portfolio for countries such as Japan, where the mains voltage is only 100 V.

MOTORMATRIX
EXTERNAL BLINDS

	GJ56.. ME	GJ5606 DuoDrive	GJ56.. T90	GJ5610v1	GJ56.. E14 Perfor-mance	GJ56.. E14 Perfection	GJ56.. E17 SMI	RESCUE-J
	Page 150	Page 152	Page 154	Page 156	Page 158	Page 160	Page 162	Page 164
Design								
Suitable for common head rails	■	■	■	■	■	■	■	■
Referencing					■	■	■	
Hanging protection								
Safety shutdown (AES)	■	■	■	■	■	■	■	■
Referencing					■	■	■	
Anti-freeze protection					■	■	■	
Obstacle detection (UP direction)					■	■	■	
Connected								
SMI							■	
AIR/Smart Home Ready								
Smooth operation								
SILENT [1]	■	■ [2]		■ [2]	■	■		■
Noise-optimised product design	■	■	■	■	■	■	■	■
Special features								
Particularly heat-resistant			■					
High-speed drives		■						
Power supply 100 V				■				
Intermediate position						■		
Emergency operation								■
Mounting								
Plug-in cables	■	■	■	■	■	■	■	■
Tool-free mounting	■	■	■	■	■	■	■	■
Simple end position adjustment	■	■	■	■	■	■	■	■

[1] Suitable for labelled GJ56.. drives up to 10 Nm and for indoor use only!

[2] On request



GJ56.. ME
Mechanical Venetian blind motor

Application:

Venetian blinds

Characteristics:

2-button technology

Safe adjustment of the end positions by means of self-retaining pushbuttons. Easy teach-in of the end positions in any direction of rotation.

Safety shutdown

The integrated overrun limit switch acts as an "emergency button" and protects the system from damage. It can also be used to approach an upper end position. This emergency button is perfectly synchronised with our motor so that the system always stops in the same position if it is driven up several times.

Product advantages:

- Mechanical limit switch
- Plug-in connecting cable in different lengths
- No adjustment cable required to set the end positions
- Tool-free and secure mounting in all common head rails
- Proven motor and brake concept

Options:

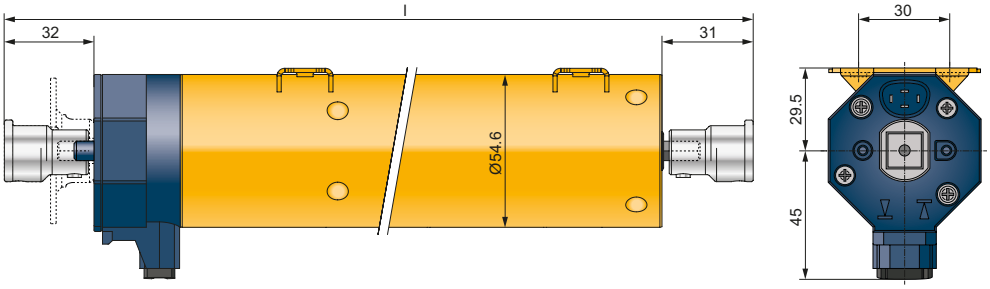
- Available as **SILENT**drive up to 10 Nm
- Also available with optimised running time on request
- Extensible overrun limit switch possible

End position adjustment:

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

*Hitting of the overrun limit switch

Drawing:



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Technical data:

Technical data GJ56.. with mechanical limit switch (standard mechanical)				
	GJ5603k [3]	GJ5606k	GJ5610	GJ5620
Voltage	230 V~/50 Hz			
Current	0.40 A	0.40 A	0.60 A	0.85 A
Cos Phi (cosφ)	> 0.95			
Inrush current (factor)	x 1.2			
Power	90 W	93 W	135 W	190 W
Torque	3 Nm	6 Nm	10 Nm	2 x 10 Nm
Speed	26 rpm			
Protection class	IP 54			
Limit switch-off range	80 rpm			
Operating mode	S2 4 min			
Sound pressure level [1]	34 db(A)	34 db(A)	35 db(A)	40 db(A)
Total length [l] (w. cpl.)	299 mm	299 mm	309 mm	336 mm
Diameter	55 mm			
Weight	approx. 1.50 kg	approx. 1.50 kg	approx. 1.70 kg	approx. 2.20 kg
Humidity	dry, non-condensing			
Storage temperature	T = -15 °C ... +70 °C			

Technical data GJ56.. with mechanical limit switch (runtime-optimised version)		
	GJ5606	GJ5616 [2] [3]
Voltage	230 V~/50 Hz	
Current	0.40 A	0.70 A
Cos Phi (cosφ)	> 0.95	
Inrush current (factor)	x 1.2	
Power	90 W	150 W
Torque	6 Nm	2 x 8 Nm
Speed	26 rpm	
Protection class	IP 54	
Limit switch-off range	80 rpm	
Operating mode	S2 6 min	
Sound pressure level [1]	34 db(A)	40 db(A)
Total length [l] (w. cpl.)	304 mm	336 mm
Diameter	55 mm	
Weight	approx. 1.60 kg	approx. 2.20 kg
Humidity	dry, non-condensing	
Storage temperature	T = -15 °C ... +70 °C	

[1] 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.

[2] Without VDE and EMC test mark.

[3] Without CCC certification mark.

Subject to technical changes. Information on the ambient temperature range of GEIGER motors can be found in the general information in the annex.

Accessories:


Coupling pieces 170


Fixing systems 172


Connecting cables 174

GJ5606 DuoDrive
Mechanical motor for Venetian blinds

Application:

Venetian blinds

Characteristics:

DuoDrive

Two seemingly contradictory requirements in a single drive: Fast travelling movement, slow turning. This enables precise adjustment of the slat angle and fast opening and closing of the blind.

Advantages of the fast travelling movement:

- Quick hanging protection in the event of a wind alarm
- Greater convenience thanks to shorter journey times
- More driving cycles until the thermal protection responds
- Time saving during factory commissioning of the external blind

Advantages of slow slat turning:

- 3 times better resolution for slat positioning
- Ideal for automated daylight control
- Ideal for sensitive manual slat adjustment

2-button technology

Safe adjustment of the end positions by means of self-retaining pushbuttons.
Easy teach-in of the end positions in any direction of rotation.

Safety shutdown

The integrated overrun limit switch acts as an "emergency button" and protects the system from damage. It can also be used to approach an upper end position. This emergency button is perfectly synchronised with our motor so that the system always stops in the same position if it is driven up several times.

Product advantages:

- Mechanical limit switch
- Plug-in connecting cable in different lengths
- Two speeds in a single motor
- No adjustment cable required to set the end positions
- Tool-free and secure mounting in all common head rails
- Proven motor and brake concept

Options:

- Also available with optimised running time on request
- Extensible overrun limit switch possible

End position adjustment:

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

*Hitting of the overrun limit switch

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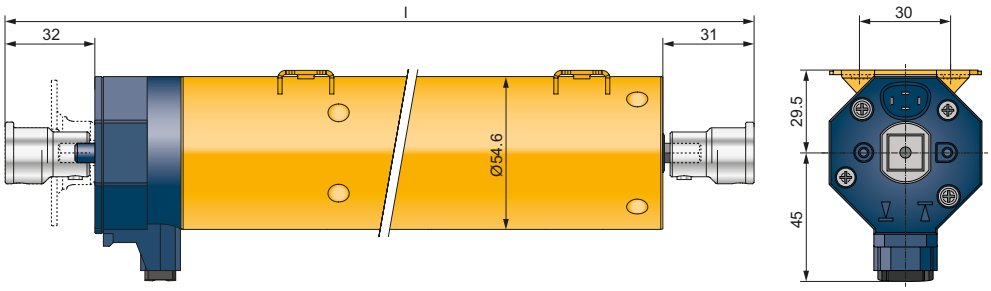
Technical data:

Technical data GJ5606 DuoDrive with mechanical limit switch	
	GJ5606 DuoDrive
Voltage	230 V~/50 Hz
Current	0.60 A
Cos Phi (cosφ)	> 0.95
Inrush current (factor)	x 1.2
Power	145 W
Torque	6 Nm
Speed	9/39 rpm
Protection class	IP 54
Limit switch-off range	80 revolutions
Operating mode	S2 4 min
Total length [l] (w. cpl.)	336 mm
Diameter	55 mm
Weight	approx. 2.05 kg
Humidity	dry, non-condensing
Storage temperature	T = -15 °C ... +70 °C

Subject to technical changes. Information on the ambient temperature range of GEIGER motors can be found in the general information in the annex.

Drawing:



Accessories:


Coupling pieces 170


Fixing systems 172


Connecting cables 174

GJ56.. T90
Mechanical Venetian blind motor

Application:

Venetian blinds

Characteristics:

HighTemperature

This Venetian blind drive is optimised for use in higher temperature ranges. Use of special materials and components makes it suitable for applications up to +90 °C.

The requirements of Cahier 3677 – of the CSTB in Class B of

- 8000 cycles at room temperature
- 2000 cycles at 75 °C
- 500 cycles at 85 °C

are of course met.

2-button technology

Safe adjustment of the end positions by means of self-retaining pushbuttons.
Easy teach-in of the end positions in any direction of rotation.

Safety shutdown

The integrated overrun limit switch acts as an "emergency button" and protects the system from damage. It can also be used to approach an upper end position. This emergency button is perfectly synchronised with our motor so that the system always stops in the same position if it is driven up several times.

Product advantages:

- Mechanical limit switch
- Plug-in connecting cable in different lengths
- No adjustment cable required to set the end positions
- Tool-free and secure mounting in all common head rails
- Proven motor and brake concept

Options:

- Extensible overrun limit switch possible

End position adjustment:

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

*Hitting of the overrun limit switch

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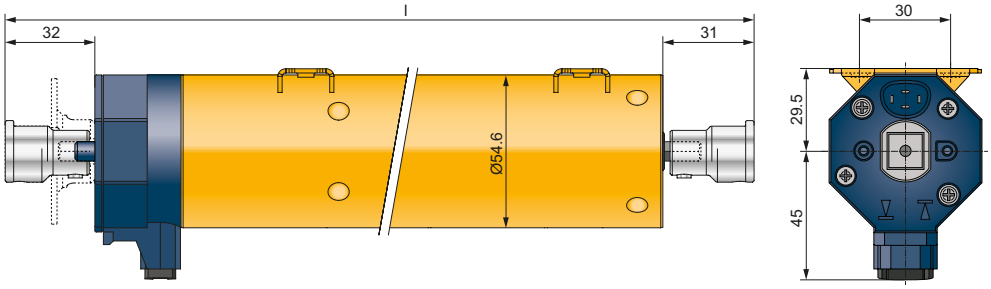
Technical data:

Technical data GJ56.. with mechanical limit switch (runtime-optimised version)		
	GJ5606 T90	**GJ5616 T90**
Voltage	230 V~/50 Hz	
Current	0.40 A	0.70 A
Cos Phi (cosφ)	> 0.95	
Inrush current (factor)	x 1.2	
Power	90 W	150 W
Torque	6 Nm	2 x 8 Nm
Speed	26 rpm	
Protection class	IP 54	
Limit switch-off range	80 revolutions	
Operating mode	S2 6 min	
Sound pressure level[1)]	34 db(A)	40 db(A)
Total length [l] (w. cpl.)	304 mm	336 mm
Diameter	55 mm	
Weight	approx. 1.60 kg	approx. 2.20 kg
Humidity	dry, non-condensing	
Storage temperature	T = -15 °C ... +70 °C	

[1)] 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. Information on the ambient temperature range of GEIGER motors can be found in the general information in the annex.

Drawing:



Accessories:


Coupling pieces 170


Fixing systems 172


Connecting cables 176

GJ5610v1
Mechanical Venetian blind motor

100 V

Application:

Venetian blinds

Characteristics:

100 V

Suitable for a current voltage of 100 V. Specifically for markets that have a 100 V 50/60 Hz power supply.

2-button technology

Safe adjustment of the end positions by means of self-retaining pushbuttons. Easy teach-in of the end positions in any direction of rotation.

Safety shutdown

The integrated overrun limit switch acts as an "emergency button" and protects the system from damage. It can also be used to approach an upper end position. This emergency button is perfectly synchronised with our motor so that the system always stops in the same position if it is driven up several times.

Product advantages:

- Mechanical limit switch
- Plug-in connecting cable in different lengths
- No adjustment cable required to set the end positions
- Tool-free and secure mounting in all common head rails
- Proven motor and brake concept

Options:

- Also available with optimised running time on request
- Extensible overrun limit switch possible

End position adjustment:

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

*Hitting of the overrun limit switch

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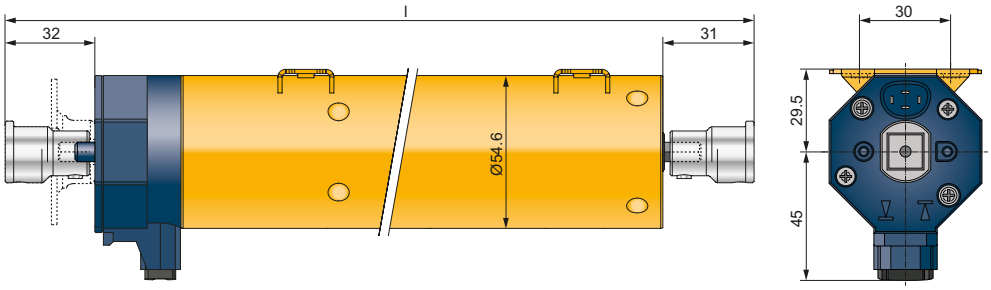
Technical data:

Technical data GJ56.. with mechanical limit switch (standard mechanical)	
	GJ5610v1
Voltage	100 V~ / 50/60 Hz
Current	1 A (50 Hz) 1.2 A (60 Hz)
Cos Phi (cosφ)	> 0.95
Inrush current (factor)	x 1.2
Power	99 W (50 Hz) 118 W (60 Hz)
Torque	10 Nm
Speed	26 rpm (50 Hz) 32 rpm (60 Hz)
Protection class	IP 54
Limit switch-off range	80 revolutions
Operating mode	S2 4 min
Total length [l] (w. cpl.)	309 mm
Diameter	55 mm
Weight	approx. 1.70 kg
Humidity	dry, non-condensing
Storage temperature	T = -15 °C ... +70 °C

Subject to technical changes. Information on the ambient temperature range of GEIGER motors can be found in the general information in the annex.

Drawing:



Accessories:


Coupling pieces 170


Fixing systems 172


Connecting cables 174

GJ56.. E14 Performance
Electronic Venetian blind motor

Application:

Venetian blinds

Characteristics:

Dynamic torque cut-off

The self-learning torque shutdown detects changes in the blind and adapts itself accordingly to ensure constant movement behaviour.

Referencing

Optional referencing makes it possible to compensate for changes in winding behaviour. Every 50 cycles, a reference run is carried out to check whether the end positions are right. The hanging is moved onto the limit stop switch for this. The set end position is checked and corrected. Function can be deactivated using the adjustment cable.

Hanging protection

- **Antifreeze protection**
  External blinds that are, for example, frozen to the end rails are detected and not torn off.
- **Obstacle detection in the UP direction**
  Protection of the system during retraction.
- **Safety shutdown**
  The GJ56.. The E14 series has an overrun limit switch. It serves as an "emergency button" and protects the system from damage.

Product advantages:

- Electronic limit stop
- Start-up time approx. 100 ms
- Can be connected in parallel
- Plug-in connecting cable in different lengths
- Overrun limit switch for safety shutdown
- Secure mounting in all standard head rails
- Proven motor and brake concept

Options:

- Available as **SILENT**drive up to 10 Nm
- Extensible overrun limit switch possible

Notices:

- Setting the end positions via setting switch, control switch or the overrun limit switch

End position adjustment:

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

*Hitting of the overrun limit switch

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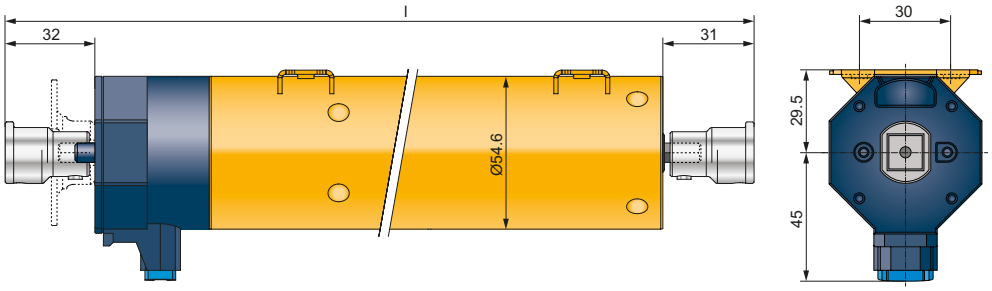
Technical data:

Technical data GJ56.. E14 Performance with electronic limit switch					
	GJ5603k	GJ5606k	GJ5606[1)]	GJ5610	GJ5620
Voltage	230 V~/50 Hz				
Current	0.40 A	0.40 A	0.40 A	0.60 A	0.85 A
Cos Phi (cosφ)	> 0.95				
Inrush current (factor)	x 1.2				
Power	90 W	93 W	90 W	135 W	190 W
Torque	3 Nm	6 Nm	6 Nm	10 Nm	2 x 10 Nm
Speed	26 rpm				
Protection class	IP 54				
Limit switch-off range	> 200 revolutions				
Operating mode	S2 4 min.	S2 4 min.	S2 6 min.	S2 4 min.	S2 4 min.
Total length [l] (w. cpl.)	319.5 mm	319.5 mm	324.5 mm	329.5 mm	356.7 mm
Diameter	55 mm				
Weight	approx. 1.50 kg	approx. 1.50 kg	approx. 1.60 kg	approx. 1.70 kg	approx. 2.20 kg
Humidity	dry, non-condensing				
Storage temperature	T = -15 °C ... +70 °C				

[1)] Runtime-optimised motor

Subject to technical changes. Information on the ambient temperature range of GEIGER motors can be found in the general information in the annex.

Drawing:



Accessories:


Coupling pieces 170


Fixing systems 172


Connecting cables 174

GJ56.. E14 Perfection
Electronic Venetian blind motor

Application:

Venetian blinds

Characteristics:

Dynamic torque cut-off

The self-learning torque shutdown detects changes in the blind and adapts itself accordingly to ensure constant movement behaviour.

Referencing

Optional referencing makes it possible to compensate for changes in winding behaviour. Every 50 cycles, a reference run is carried out to check whether the end positions are right. The hanging is moved onto the limit stop switch for this. The set end position is checked and corrected. Function can be deactivated using the adjustment cable.

Hanging protection

- **Antifreeze protection**
  External blinds that are, for example, frozen to the end rails are detected and not torn off.
- **Obstacle detection in the UP direction**
  Protection of the system during retraction.
- **Safety shutdown**
  The GJ56.. The E14 series has an overrun limit switch. It serves as an "emergency button" and protects the system from damage.

Intermediate position

An additional desired position can be taught in at any time.

Product advantages:

- Electronic limit stop
- Start-up time approx. 100 ms
- Can be connected in parallel
- Plug-in connecting cable in different lengths
- Overrun limit switch for safety shutdown
- Secure mounting in all standard head rails
- Proven motor and brake concept

Options:

- Available as **SILENT**drive up to 10 Nm
- Extensible overrun limit switch possible

Notices:

- Setting the end positions via setting switch, control switch or the overrun limit switch

End position adjustment:

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

*Hitting of the overrun limit switch

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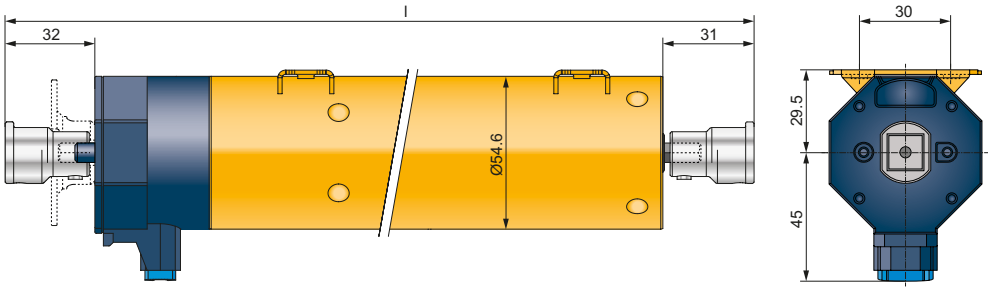
Technical data:

Technical data GJ56.. E14 Perfection with electronic limit switch					
	GJ5603k	GJ5606k	GJ5606[1)]	GJ5610	GJ5620
Voltage	230 V~/50 Hz				
Current	0.40 A	0.40 A	0.40 A	0.60 A	0.85 A
Cos Phi (cosφ)	> 0.95				
Inrush current (factor)	x 1.2				
Power	90 W	93 W	90 W	135 W	190 W
Torque	3 Nm	6 Nm	6 Nm	10 Nm	2 x 10 Nm
Speed	26 rpm				
Protection class	IP 54				
Limit switch-off range	> 200 revolutions				
Operating mode	S2 4 min.	S2 4 min.	S2 6 min.	S2 4 min.	S2 4 min.
Total length [l] (w. cpl.)	319.5 mm	319.5 mm	324.5 mm	329.5 mm	356.7 mm
Diameter	55 mm				
Weight	approx. 1.50 kg	approx. 1.50 kg	approx. 1.60 kg	approx. 1.70 kg	approx. 2.20 kg
Humidity	dry, non-condensing				
Storage temperature	T = -15 °C ... +70 °C				

[1)] Runtime-optimised motor

Subject to technical changes. Information on the ambient temperature range of GEIGER motors can be found in the general information in the annex.

Drawing:



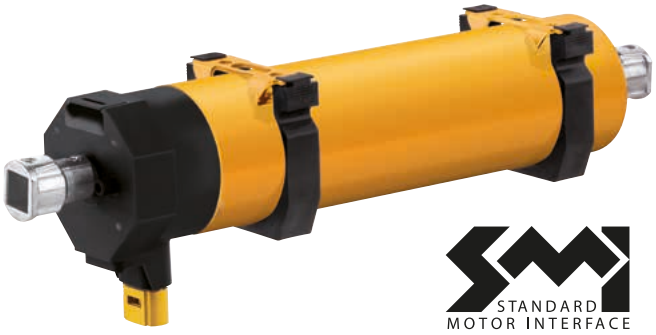
Accessories:


Coupling pieces 170


Fixing systems 172


Connecting cables 174

GJ56.. E17 SMI
Electronic Venetian blind motor



Application:

Venetian blinds

Characteristics:

SMI

The GJ56.. E17 uses SMI 3.0, the third generation of the Standard Motor Interface Protocol. The protocol is well-established on the market and represents a standardised interface of building automation for the control of sun protection systems.

- **Status feedback**
  The current position and motor status can be queried using feedback from the drive.

Dynamic torque cut-off

The self-learning torque shutdown detects changes in the blind and adapts itself accordingly to ensure constant movement behaviour.

Hanging protection

- **Antifreeze protection**
  External blinds that are, for example, frozen to the end rails are detected and not torn off.
- **Obstacle detection in the UP direction**
  Protection of the system during retraction.
- **Safety shutdown**
  The GJ56.. The E17 SMI series is equipped with an overrun limit switch. It serves as an "emergency button" and protects the system from damage.

Referencing

Optional referencing makes it possible to compensate for changes in winding behaviour. Every 50 cycles, a reference run is carried out to check whether the end positions are right. The hanging is moved onto the limit stop switch for this. The set end position is checked and corrected. Function can be deactivated using the adjustment cable.

Product advantages:

- Electronic limit stop
- Start-up time approx. 100 ms
- Can be connected in parallel
- Plug-in connecting cable in different lengths
- Overrun limit switch for safety shutdown
- Secure mounting in all standard head rails
- Proven motor and brake concept

Options:

- Extensible overrun limit switch possible

Notices:

- Setting the end positions via setting switch, control switch or the overrun limit switch

End position adjustment:

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

*Hitting of the overrun limit switch

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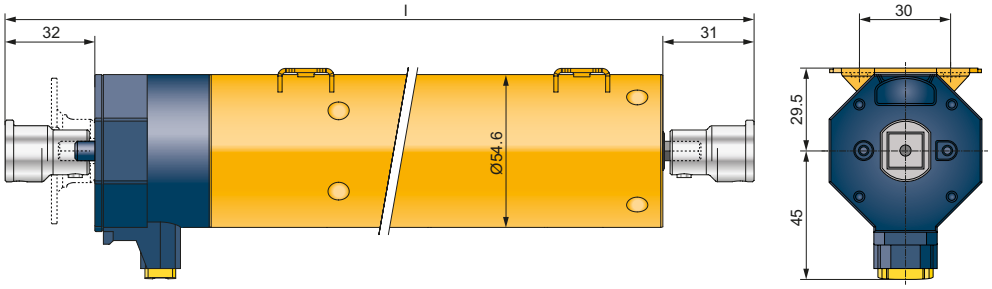
Technical data:

Technical data GJ56.. E17 SMI with electronic limit switch				
	GJ5606k	GJ5606[1)]	GJ5610	GJ5620
Voltage	230 V~/50 Hz			
Current	0.40 A	0.40 A	0.60 A	0.85 A
Cos Phi (cosφ)	> 0.95			
Inrush current (factor)	x 1.2			
Power	93 W	90 W	135 W	190 W
Torque	6 Nm	6 Nm	10 Nm	2 x 10 Nm
Speed	26 rpm			
Protection class	IP 54			
Limit switch-off range	> 200 revolutions			
Operating mode	S2 4 min.	S2 6 min.	S2 4 min.	S2 4 min.
Total length [l] (w. cpl.)	371.0 mm	376.0 mm	381.0 mm	408.0 mm
Diameter	55 mm			
Weight	approx. 1.50 kg	approx. 1.60 kg	approx. 1.70 kg	approx. 2.20 kg
Humidity	dry, non-condensing			
Storage temperature	T = -15 °C ... +70 °C			

[1)] Runtime-optimised motor

Subject to technical changes. Information on the ambient temperature range of GEIGER motors can be found in the general information in the annex.

Drawing:



Accessories:


Coupling pieces 170


Fixing systems 172


Connecting cables 174

RESCUE-J
Solution for external blinds in the 2nd escape route

Application:

Venetian blinds

Sun protection in the escape route

The requirement in accordance with § 33 of the German standard building regulations (Musterbauverordnung; MBO) requires at least two mutually independent escape routes per building level, at least one of which must comply with the provisions for the first escape route.

The first escape route is a traffic route that enables people to leave a danger zone quickly. It either leads out of a building into the open or into a secured area. Examples include corridors, stairs, and exits people use to get to safety in the event of a fire.

In contrast to the first escape route, which is strictly regulated and clearly defined, the second escape route can be designed based on countless possible solutions. Neither the MBO nor any other state building regulations nationwide contain any standardised regulations so far.

This represents a massive challenge in terms of design and implementation for sun protection manufacturers, architects, and planners.
This in turn may lead to conflicts, in particular if the fire protection requirements for sun protection in the second escape route are not considered. Aesthetic aspects, monument protection regulations, structural framework conditions, and, last but not least, costs must be harmonised as well.

Modular design – systematic motors and gearboxes!

The ingenious design of the RESCUE-J can be easily integrated into all standard top rails.
All component dimensions are designed so that only the crank handle needs to be installed inside the building.

- **Space-saving:** Thanks to its modular design, the system can be integrated into all top tracks.
- **Flexible:** RESCUE-J is available for external blinds with 14 mm grooved tube or 12 mm square tube turning bars.
- **Maintenance-free:** The motor, freewheel, and gearbox do not require any maintenance. However, we recommend an annual
  check of the mechanical components by means of a test operation.
- **Customer-focused:** In an emergency, the external blind can be opened quickly and easily. The gear reduction ratio of 2:1 makes operation child's play.

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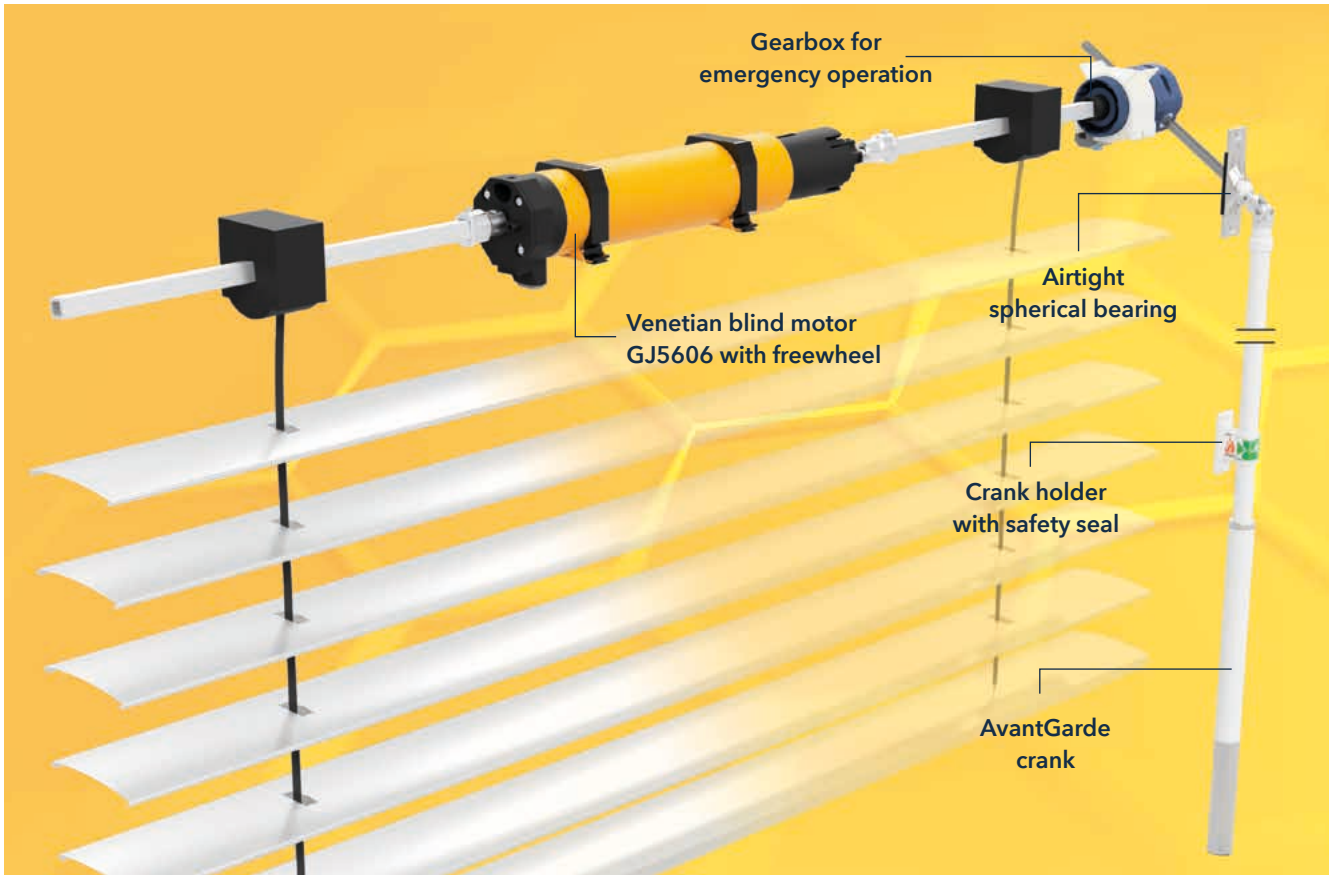
RESCUE-J at a glance



Components at a glance

- **Venetian blind motor GJ5606 (6 Nm):** The basis is our mechanical external blind motor, which has been tried and tested millions of times. Optimum and quick adjustment of the end positions with just two buttons.
- **Freewheel:** Solid freewheel made of extremely stable and durable plastic. The freewheel is designed for 50 emergency operations and guarantees reliable use over the entire service life of the external Venetian blind system.
- Bevel gearbox: Tried and tested components and assemblies ensure smooth operation.
- Air-tight spherical bearing: Prevents thermal bridges and protects against draughts and condensation.
- **AvantGarde crank:** Aesthetic crank handle with concealed mechanism can be discreetly integrated into the room.

Installation

Slide the motor with freewheel, dampers and the mounted coupling pieces into the top rail. Secure the motor with the clamping bracket/clamping bridge and lock it with the locking lever. Insert the turning rods into the coupling pieces.

Insert the gear holder on the side and secure with a screw if necessary. Insert the gearbox into the holder, paying attention to the alignment of the drive guide. Suitable fixation of the universal plate plate must be checked and guaranteed on site!
If a specific direction of crank rotation is required, the gearbox can be rotated through 180° axially.

NOTE: Crank operation is only possible in the upright position and is only intended for emergency operation.

Operation in case of fire

If the external blind cannot be raised electrically in the event of a fire, RESCUE-J is used.
Simply pull the rods out of the holder, push the sleeve of the AvantGarde crank upwards, bend the crank and turn it. The safety seal is used to visually indicate that the crank should only be operated in an emergency.
The freewheel is triggered by strongly operating the emergency hand crank. You will hear a repeated clicking noise here.

Return to operation

If the upper position was given by the overrun limit switch, no action is necessary when recommissioning the GJ5606 motor. If the upper end position was set to position and the blind was manually cranked above this position, the upper end position must be reset.

If the blind was opened with the crank handle, turn the crank handle a quarter turn in the opposite direction before putting them into operation to relieve the gearbox and prevent the crank handle from turning during motorised operation.

RESCUE-J Kits – Set contents

Components	Kit 1 for 14 mm grooved tube	Kit 2 for 12 mm square tube
Part no.	M56F7000	M56F7001
Venetian blind motor GJ5606 with freewheel and mounted coupling pieces for 14 mm grooved tube	●	–
Venetian blind motor GJ5606 with freewheel and mounted coupling pieces for 12 mm square tube	–	●
Connecting cable, length = 0.5 m with STAS3	●	●
Extension for overrun limit switch	●	●
Bevel gearbox 2:1, output 14 mm grooved tube	●	–
Bevel gearbox 2:1, output 12 mm square tube	–	●
Airtight spherical bearer, 90°, plate 22x85 mm	●	●
AvantGarde aluminium frame, length = 1,200 mm	●	●
Plastic crank holder, RAL 9016	●	●
Security seal	●	●

NOTE: Please note that the gear holder and the fixation set (damper and clamping bridge/clamping bracket) must be ordered separately based on the dimensions of the top track and axle height.

Technical data:

Technical data GJ5606kj with mech. Limit switch	
Voltage	230 V~/50 Hz
Current	0.40 A
Cos Phi (cosφ)	> 0.95
Inrush current (factor)	x 1.2
Power	93 W
Torque	6 Nm
Speed	26 rpm
Protection class	IP 54
Limit switch-off range	80 revolutions
Operating mode	S2 4 min.
Total length (w. cpl.)	390 mm
Diameter	55 mm
Weight	approx. 1.60 kg

Hanging specifications

Hanging dimensions	
Max. hanging area	5.50 m²
Max. height	3.00 m
Max. width	3.00 m

Accessories:

 Coupling pieces 170

 Fixing systems 172

 Connecting cables 174

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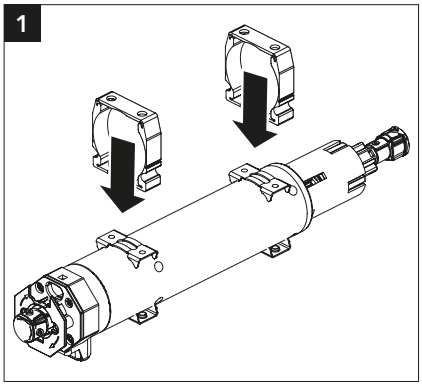
Maintenance and instructions

The system is maintenance-free. However, an annual test run is recommended to check the system. The occupants or employees in the premises secured by RESCUE-J should be instructed in its use.

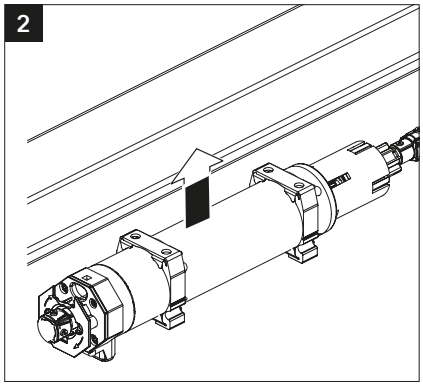
Assembly instructions

1



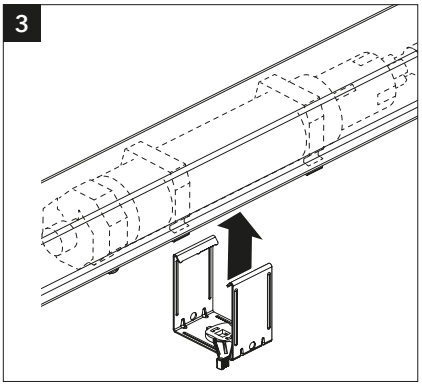
Check that the freewheel is firmly seated.
Slide the dampers over the driver until they snap into place on the mounting feet.

2



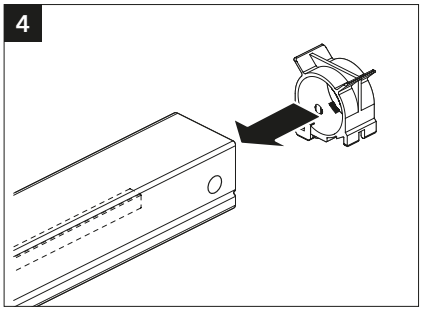
Slide the motor with the dampers into the top rail.

3



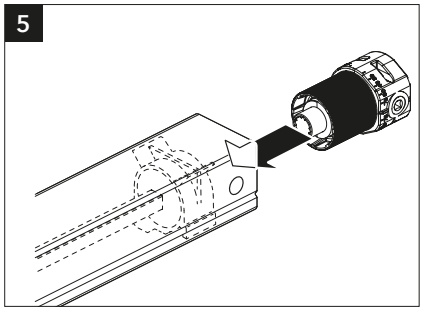
Slide the clamping bracket over the top rails to secure the motor. Insert the turning bars into the coupling pieces.

4



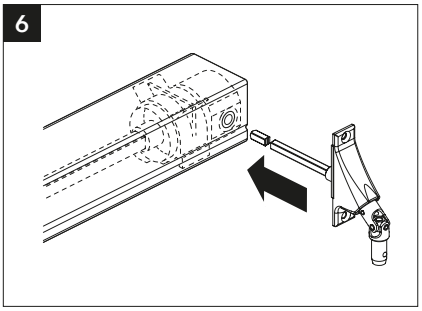
Slide the gear holder into the top rail.

5



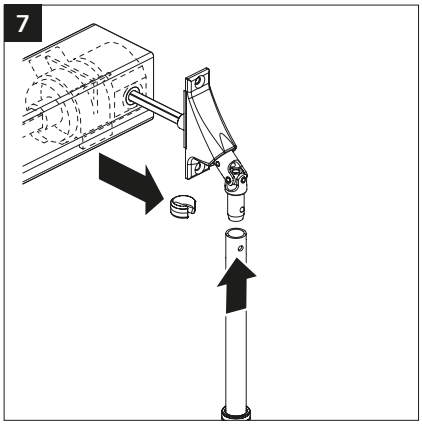
Slide the gearbox into the holder and lock it in place with the screw from below.
NOTE: Observe the alignment of the drive mount.

6



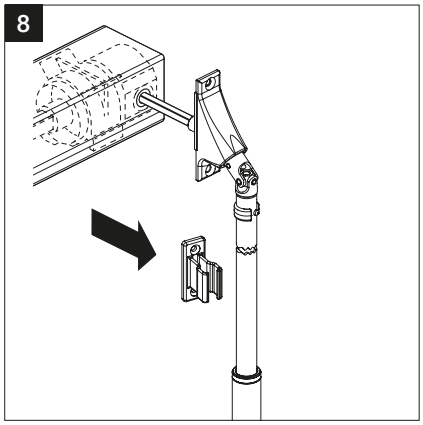
Guide the output rod of the airtight spherical plain bearer through the hole in the gearbox. Screw the spherical bearing to the wall with 2 screws (not included in the scope of delivery) to the wall.

7



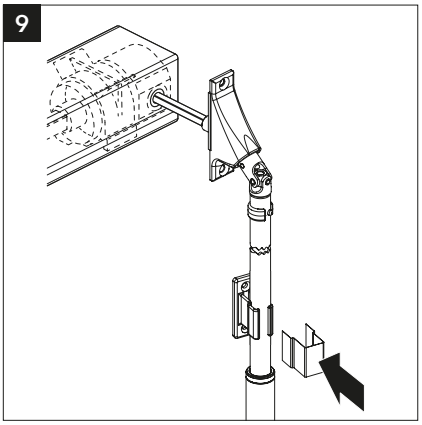
Slide the crank onto the trunnion of the spherical bearing and secure it with the safety clip supplied.

8



Fix the crank holder to the wall with 2 screws (not included).

9



Secure the crank with the safety seal by sticking it over the holder.

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