



Product Datasheet

Awning gears – Gear series ISG

Customer Benefits

Operating safety

Faulty operation of the awning device causes damages and leads to complaints. The bevel gear ISG is designed to prevent any incorrect operation. The integrated stop system and an audible signal avoid damage caused by a faulty winding of the cloth.

Ease of use

The convenience of use is defined by the number of crank movements necessary to operate the awning as well as the necessary effort to be done by the user.

Optimized efficiency during production and assembly

The end position of the awning device is generally factory pre-set. As far as the awning gear ISG is concerned, the setting is easily done within few minutes. However the requirements of the customers might differ and the end position has to be corrected during assembly on site.

For the first time the awning gear ISG make it possible to adjust the end stop in less than 5 minutes – without special tools. The accuracy of the setting is unique on the market.

After sales + extra business

Millions of existing awnings need to be maintained and revised leading the way for a large future market for spare parts and equipment. The bevel gears ISG are most easy to operate and this is a very big advantage for the end-user as well as for the tradesmen, this product saves a lot of time and effort and generates a significant additional business.

Thanks to the patented EasyClip system, the ISG gear can also be easily used in cassette awnings.

Quality guarantee according to DIN EN 14203

GEIGER is the only manufacturer to provide a complete documentation including the declarations of manufacturers, according to the directive DIN EN 14203.

For the first time, the application range and the gear functionality are explicit and transparent. It is a plus factor in terms of safety for all our customers in either industry or trade.

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Made by GEIGER

GEIGER relies on Germany as production location: the **awning gear ISG**, like all GEIGER products, is entirely developed and produced in Germany.

This situation allows an optimal combination of R & D, manufacturing processes and quality management.



Functions of the gear series ISG

Integrated stop system

The integrated stop system allows at any time the modification of the awning end position. To adjust the end position, loosen the Allen screw which is accessible from outside. A removal of the gear or the shaft is not necessary. The end position correction can be carried out in a **cost and time efficient way**.

Freewheel with fully extended awning

When reaching the end position an innovative freewheel system emits an acoustic signal. This signal indicates to the user that the end position is now reached and that the awning is fully extended.

The awning device is thus protected: no gear damage and no rolling up of the cloth in the wrong direction.

Integrated additional components

All these functions are integrated into the gear series ISG. There are no extra components to be mounted either during industrial production or on construction site.

Removable eyelet

Components such as eyelet and drive shaft are also assembled by GEIGER.

A special plug-in system – EasyClip – is available on request so that eyelet and shaft can be easily removed if necessary, for example during transportation or assembly, or if used with cassette awnings.

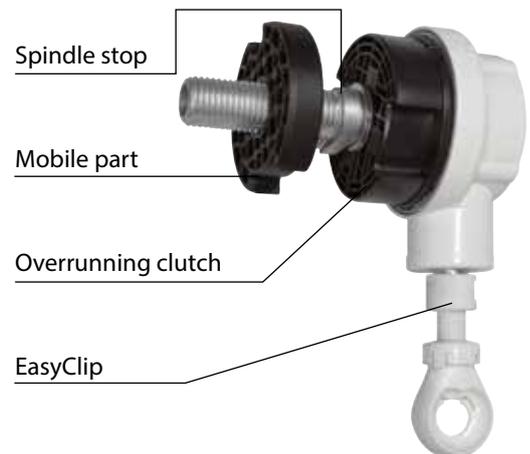
Installation information



When assembling, the mobile part must be fixed on the spindle stop.



The groove of the mobile part must lie in one line with the groove of the overrunning clutch.



- Step 1:** Make sure that the mobile part is in contact with the overrunning clutch.
 When assembling the right gear version, rotate clockwise until the mobile part is in contact with the overrunning clutch.
 When assembling the left gear version rotate counter clockwise until the mobile part is in contact with the overrunning clutch.
 Afterwards, rotate the overrunning clutch (for right gear counter clockwise and left gear clockwise (audible click) until the end of the grooved tube covers the overrunning clutch).
 It might be necessary to rotate the mobile part in order to make some minor adjustments.
- Step 2:** Insert the gear into the grooved tube and fix it to the bracket (Inclination of the eyelet according to construction site conditions).

Setting the end position

- Step 1:** Extend the awning until the overrunning clutch triggers (audible click). Then retract the awning approx. 1 to 2 cm.
- Step 2:** Unlock the EasyClip by turning a quarter turn counter clockwise and remove the eyelet with the extension.
- Step 3:** Loosen the fixation screw with a 4 mm Allen key (3 turns).
- Step 4:** Insert the eyelet with extension and turn until it locks in place.
- Step 5:** **Resetting the end stop outwards:**
 Turn the awning inwards (about 1 cm) with the crank handle in order to relieve the end stop.
 Then crank the awning outwards to the desired end position.

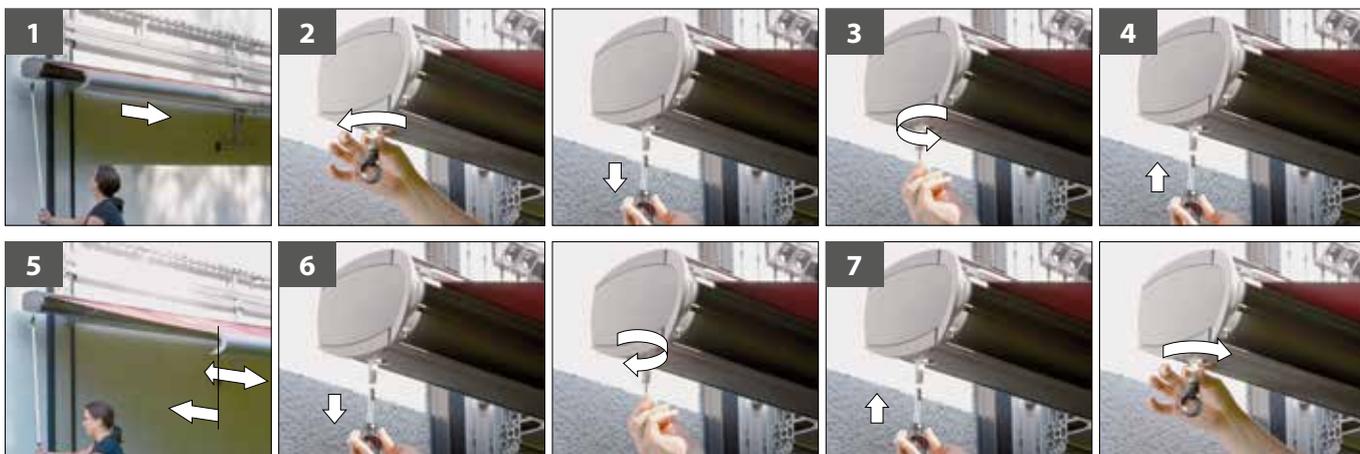


Safety Note: This short driving movement prevents any risk of damage to the GEIGER gearing positioning.

Resetting the end stop inwards:

Crank the awning inwards to the desired end position.

- Step 6:** Remove the eyelet with extension and tighten the fixation screw again.
- Step 7:** Insert eyelet with extension and turn until it locks in place. Turn EasyClip a quarter turn clockwise to secure eyelet and extension.
- Step 8:** Check the setting by retracting the awning about 50 cm and then extend it until the overrunning clutch triggers (audible clack).



ISG | Bevel gear 4,4:1

Range of application: **large folding-arm awnings**

max. output torque	16 Nm
reduction ratio	4,4:1
efficiency	0,66

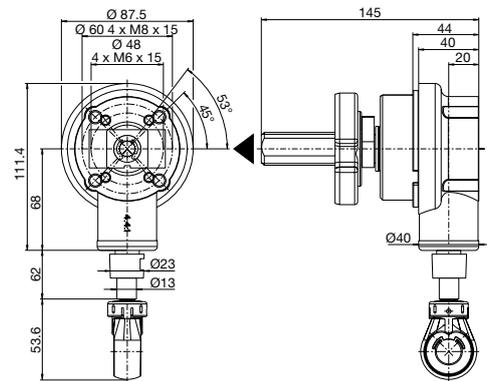
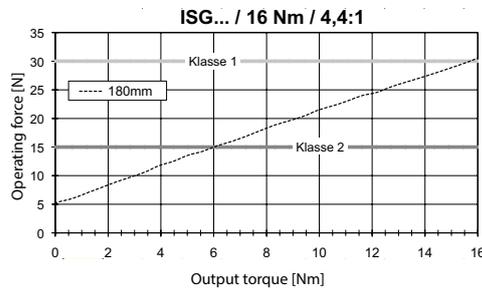


Features

- bevel gear with integrated free-wheel
- can be inserted directly in the roller tube
- variably adjustable end stop that can be set from the outside
- from 0 up to 20 rotations exact positioning of the end stop down to 10 mm / 15°
- available as right and left side version
- Special version up to 50 Nm on request

Notes

- colours and drive shafts on request
- this GEIGER awning gear is available with oval zinc eyelets, oval or round plastic eyelets in different RAL colours



Options for the ISG gear for awnings	
Drive	round and oval plastic eyelets
Output	78 mm and 85 mm grooved tube
Extensions	between 37,5 mm and 167 mm
Version	available as right and left side version
Casing	coated RAL 9016, 7035, 9005 (further colors on request)
End position range	20 rotations (awning shaft)
Exact positioning	down to 10 mm / 15°
Options for EasyClip	
Colors	RAL 9016, 7035, 9005 (further colors on request)
Extensions	from 95 mm min. till 152 mm max. (mid-gear till beginning of eyelet)



The name GEIGER Antriebstechnik is synonymous worldwide for drive solutions in the sun protection area.

Today we are with about 300 employees one of the leading manufacturers of mechanical and electrical drives for Venetian blinds, awnings and rolling shutters.

GEIGER is a well-known, mid-sized company which offers worldwide drive components for the sun protection systems.