

Function / Application / Special feature

Application: Electromechanical drive with mechanical emergency hand crank (NHK) for venetian blinds. An appropriate crank gear is still required for the drive.

Scope of delivery

- JA 09 Soft NHK venetian blind drive with differential gear "inside the light" or "outside the light"
- Coupling kit
- SW7 shaft 325 mm (16 103.5501), for "outside the light" version
- Washer B 8.4 (10 107.0108) according to DIN 125, secured against slipping with a rubber ring. Remove the rubber ring before installing "outside the light".

Additional parts provided by the customer

- Self-locking crank gear. With the "inside the light" version, the maximum width of the crank gear is limited to 96 mm. In addition to the crank gear, a mechanical spindle lock must be fitted to prevent damage during manual operation.
- Drive shaft
- Adjusting ring
- Tape spool

Emergency manual operation



Note:

NHK venetian blind drives have an additional emergency manual control, which is used to open or close the blind in the event of an emergency. An emergency is considered to be a power failure or a defect in the venetian blind drive. Emergency manual control is not intended to be used repeatedly as this can damage the venetian blind drive.

Operating the venetian blind drive using the emergency hand crank

CAUTION

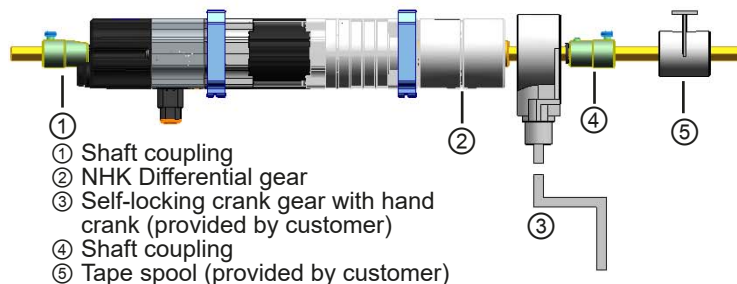
- Hands, loose clothing or long hair can be pulled in and crushed.
- Disconnect the venetian blind drive from the power supply before emergency manual operation (switch should not be actuated).
- Attach the emergency hand crank to the venetian blind drive.
- Open or close the blind by slowly turning the emergency hand crank.
- Ensure that the set limit switches are not overrun.

Installation instructions

- JA 09 Soft NHK venetian blind drive with differential gear for installing "inside the light" or "outside the light".
"Inside the light" version: The hand crank is located in the window recess between the drive and the last tape spool.
"Outside the light" version: The hand crank is located outside the window recess after the last tape spool at the end of the installation rail.
- Coupling kit
- SW7 shaft 325 mm (16 103.5501), for "outside the light" version
- Washer B 8.4 (10 107.0108) according to DIN 125, secured against slipping with a rubber ring. Remove the rubber ring before installing "outside the light".
- Install the venetian blind drive so that the differential gear points in the direction of the crank gear.
- The space required for the drive with the differential gear and the coupling is 422 mm.
- The mounting and limit switch setting is identical to the standard venetian blind drives.
- Follow the manufacturer's instructions for installing and assembling the customer's crank gear on the shaft and in the channel.
- Crank gears, adjusting rings, drive shafts and tape spools are not supplied by elero GmbH.

Installation with crank gear inside the light

- The drive is mounted and supplied complete with the SW7 shaft. The maximum width of the crank gear is therefore limited to 96 mm.



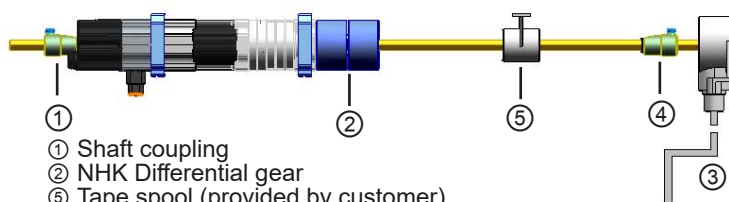
- ① Shaft coupling
- ② NHK Differential gear
- ③ Self-locking crank gear with hand crank (provided by customer)
- ④ Shaft coupling
- ⑤ Tape spool (provided by customer)

Installation inside the light

- Remove the JA coupling on the gear side. Use a size 0 screwdriver for this.
- Cut a piece of drive shaft to 113 mm and slide it over the SW 7 shaft onto the differential gear.
- Slide the crank gear onto the drive shaft.
- Put the JA coupling back onto the shaft.
- Install the drive in the channel. The position of the crank gear is determined by the installation position.
- Install the connecting shaft to the tape spools.

Installation with crank gear outside the light

- The drive is supplied with an accompanying SW 7 shaft (325 mm).
- The max. 300 mm drive shaft must be supplied by the customer. The shafts can therefore be shortened as required.
- Longer shafts are not permitted due to the torsional forces that occur.
- The SW 7 shaft must always be exactly 25 mm longer than the drive shaft. This is the only way to guarantee that the SW 7 shaft does not block the gear.



- ① Shaft coupling
- ② NHK Differential gear
- ⑤ Tape spool (provided by customer)
- ④ Shaft coupling
- ③ Self-locking crank gear with hand crank (provided by customer)

Installation outside the light

- Install the drive in the channel. The differential gear must point in the direction of the crank gear.
- Adjust the SW 7 shaft and the drive shaft to the desired length.
- Length of the shafts: Measure the clearance (max. 327 mm) between the differential gear and the end of the coupling.
Length of drive shaft = clearance - 27 mm
Length of SW 7 shaft = drive shaft + 25 mm
- The shafts are not secured axially. Secure the shaft with adjusting rings on the tape spool.
- Push the drive shaft through the last tape spool into the differential gear. There must be no direct connection between the drive shaft and the crank gear. The connection is made via the SW 7 shaft.
- Mount the JA coupling on the SW 7 shaft.
- Slide the washer onto the SW7 shaft.
- Slide the SW7 shaft into the drive shaft.
- Assemble the crank gear with the appropriate drive shaft.
- Secure the drive shaft axially.

Venetian blind drive JA 09 Soft NHK

Technical data and dimensions

Technical data	inside the light for 11 mm / hexagonal	outside the light for 11 mm / hexagonal	inside the light for 12 mm / square	outside the light for 12 mm / square
Max. torque [Nm]	9	9	9	9
Speed [1/min]	26	26	26	26
Operating voltage [V]	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230
Frequency [Hz]	50	50	50	50
Noiseless soft brake	✓	✓	✓	✓
Suitable for	11 mm hexagonal	11 mm hexagonal	12 mm square	12 mm square
Current [A]	0,68	0,68	0,68	0,68
Power [W]	156	156	156	156
Protection class I	✓	✓	✓	✓
Limit switch range (rpm)	85	85	85	85
Ingress protection (IP)	44	44	44	44
Operating mode (min S2)	5	5	5	5
Length "A" [mm]	328	328	328	328
Weight [kg]	2.1	2.	2.1	2.1
Temperature range [°C]	-20 to +60	-20 to +60	-20 to +60	-20 to +60
Threaded holes M5x9	8	8	8	8
Connection cable [m] with connector STAS3 and bracket	0.5	0.5	0.5	0.5
Item number	35 417.0403	35 418.0403	35 417.0403	35 418.0403

