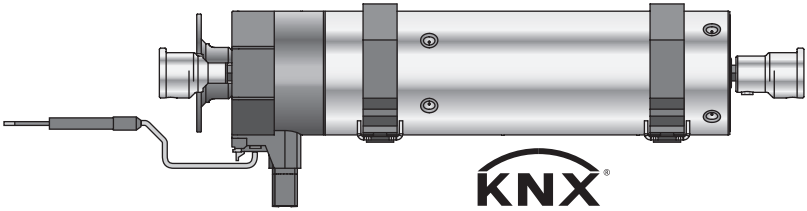
GEIGER
ANTRIEBSTECHNIK

KNX intelligence by
RADEMACHER
Bewegt mehr.

Venetian blind motor:

X-line Raffstore with KNX interface

For Venetian blinds and exterior blinds



EN **Original assembly and operating instructions**

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1. General information

Dear customer,

By purchasing an X-line Raffstore motor you have decided on a quality product.

Thank you very much for your decision and the confidence placed in us.

Before you put this drive into operation please observe the following safety instructions. It serves for the prevention of danger and for the avoidance of personal injury and damage to property.

The installation and operating instructions contain important information for the installer, the specialist electrician and the user. Please pass on these instructions if you transfer the product. These instructions should be kept by the user.

2. Guarantee

In the case of incorrect installation contrary to the installation and operating instructions and/ or constructional modification, the legal and contractual guarantee for property damage and product liability lapses.

3. Intended use

The motors of the series X-line Raffstore (GJ56..E09) with electronic end stop and KNX interface are designed exclusively for the operation of Venetian blinds.

The motors may not be used for the operation of roller grilles, garage doors, furniture and lifting tools.

4. Safety instructions

ATTENTION: Important safety instructions. For personal safety, it is important to follow these instructions. Please keep these instructions for future reference.

- **Do not allow children to play with stationary controls. Keep remote controls away from children.**
- **The installation is to be checked regularly for defective balance, signs of wear or damaged cables and springs, if relevant.**
- **Do observe the moving sun protection system and keep persons away until it has closed completely.**
- **When operating the manual release with the sun protection system open, please be cautious as it can fall down quickly if springs or tapes wear off or are broken.**
- **Do not operate the device if operations such as, for example, window cleaning are to be carried out in the vicinity.**
- **Disconnect the automatic controlled device from the mains power supply if operations such as, for example, window cleaning are being carried out in the vicinity.**
- **During operation observe the danger zone.**
- **Do not use the installation if people or objects are in the danger zone.**
- **Urgently shut down damaged installations until repair.**
- **Unconditionally shut down the unit during maintenance and cleaning operations.**
- **Pinching and shearing points are to be avoided and must be secured.**
- **This appliance can be used by children aged 8 and above and persons whose physical, sensorial or mental capacities are impaired, or who have no experience or know-how if they have been supervised or been given instructions on the use of the appliance and if they understand the possible resulting dangers. Children are not permitted to play with the device. Cleaning and maintenance should not be carried out by children.**
- **The rated sound pressure level is less than 70 dB(A).**
- **Disconnect the device from the mains power supply for maintenance and replacement of parts.**
  If the motor is disconnected via a plug connection the operator must be able to control - from any place to which it has access – that the plug is removed.
  If this is not possible - due to design or installation - the disconnection from the power supply must be ensured via locking in the disconnected position (e.g. isolator).
- **The motor tube can get very hot during prolonged use.**
  When working on the unit, do not touch the tube before it has cooled down.

5. Safety instructions for assembly

ATTENTION: Important safety instructions. Follow all installation instructions, as incorrect installation can lead to serious injuries.

- **When mounting the motor without any mechanical protection of the driven parts and of the tube which may become hot, the motor must be installed at a height of at least 2.5 m above the ground or of another level which provides access to the drive.**
- **Before the motor is installed, all cables which are not needed are to be removed and all equipment which is not needed for power-operated actuation is to be put out of operation.**
- **The actuating element of a manual release must be mounted at a height of less than 1.8 m.**

- **If the motor is controlled by a switch or pushbutton, the switch or pushbutton must be mounted within eyeshot of the motor. The switch or pushbutton must not be located in the vicinity of moving parts. The height of installation must be at least 1.5 m above the floor.**
- **Permanently installed control devices must be attached visibly.**
- **In case of devices extending horizontally, a horizontal distance of at least 0.4 m must be respected between the fully extended part and any other fixed element.**
- **The rated speed and the rated torque of the motor must be compatible with the device.**
- **The mounting accessories that are used must be designed in accordance with the selected rated torque.**
- **Good technical knowledge and good mechanical skills are necessary for the motor installation. Incorrect installation can lead to serious injury.**
  Electrical work must be carried out by a qualified electrician in accordance with the regulations in force locally.
- **Only use connecting cables that are suitable with the environmental conditions and which meet the construction requirements. (see accessories catalogue)**
- **If the device is not equipped with a connecting cable and a plug, or other means for disconnecting from the mains with a contact opening on each pole according to the conditions of the overvoltage category III for full disconnection, a disconnecting device of this type must be incorporated into the permanently installed electrical installation according to the wiring rules.**
- **Do not mount the connecting cables near hot surfaces.**
- **A plug for the disconnection of the motor from the power supply must be accessible after installation.**
- **Damaged connecting cables must be replaced by connecting cables of the same type.**
- **The device must be mounted as described in the installation instructions. Fixations shall not be made with adhesives since they are regarded as unreliable.**

6. Assembly note

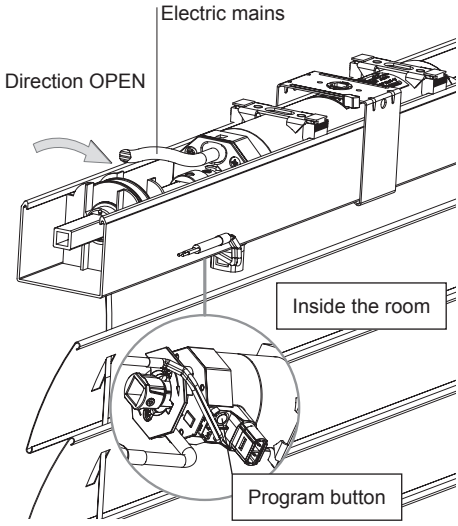
When viewed from inside the room, the power supply connection of the **GJ56.. E09** is located on the left side. The straps are wound on the winding rollers from the outside.

The **GJ56.. E09** must be installed in alignment with the turning bars.

It is important that the **GJ56.. E09** is installed centrally. Please make sure that the load is evenly distributed.

Inclined installation:

The inclined installation is permitted till 45° maximum to level.



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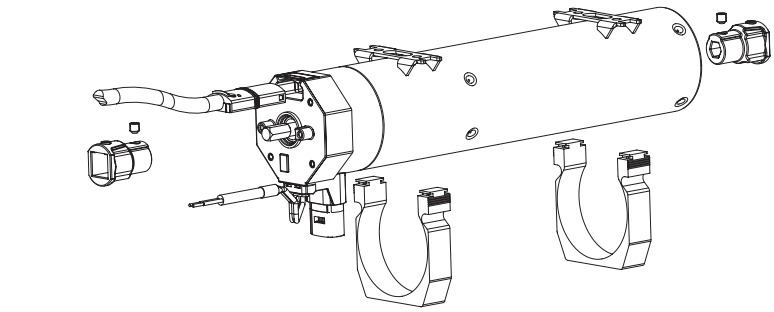
7. Installation instructions

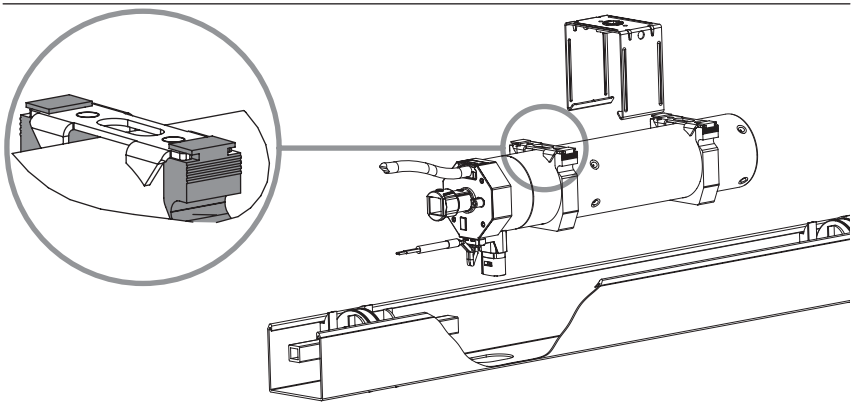
Prior to installation please check to ensure there is no visible damage to the motor like cracks or open cables.

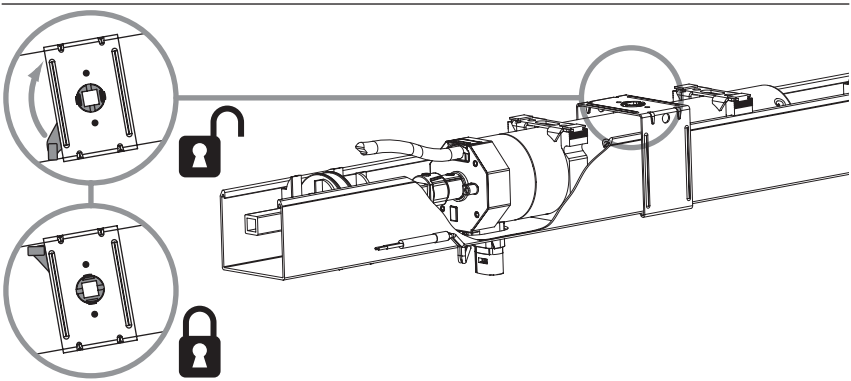
Before fixing please check the strength of the masonry and of the surface.

It is essential to check the KNX cable connection. The cable must be plugged in. The KNX cable is connected to the internal KNX cable by means of the appropriate current terminals.

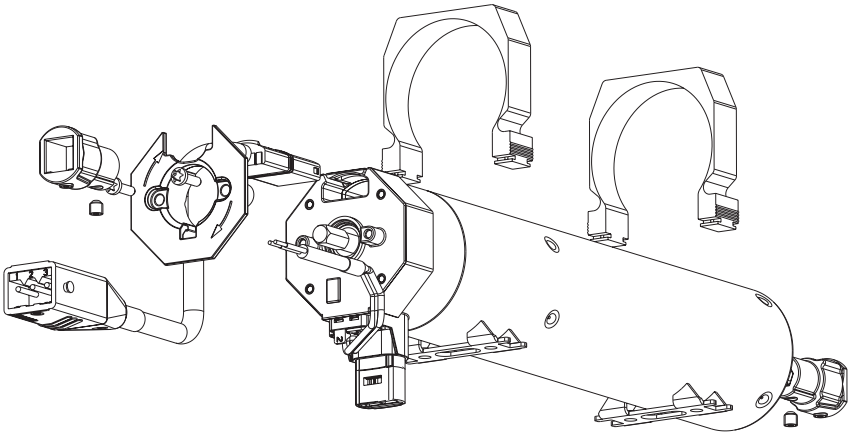
Head rail opening at top:

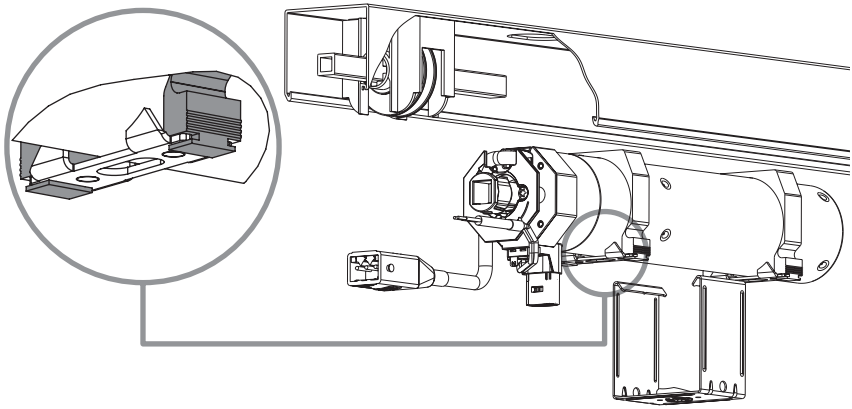


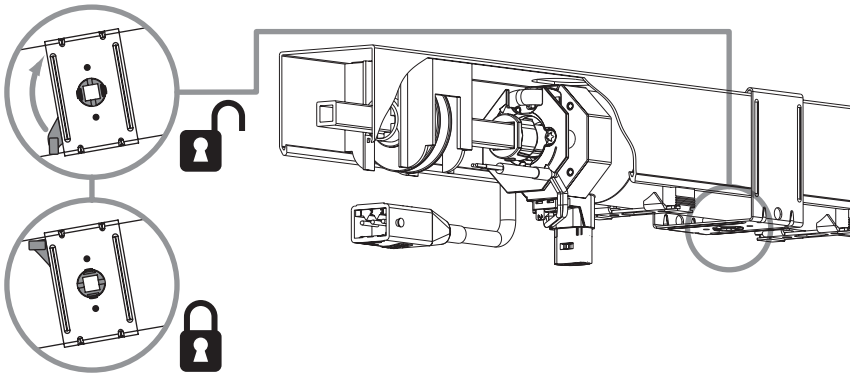




Head rail opening at bottom:







8. Two operating concepts

No operation may be carried out within the 5 seconds after connection of the motor to the mains.

One-button operation/ Push-button operation

The system is operated via one-button that moves the blind in both UP and DOWN directions.

By pressing the button after a break (> 1.5 sec.), the blind moves counter to the last direction of travel. By briefly pressing the button (<1 sec.) the blind moves in the same direction further (inching mode). With a long actuation of the button (> 1 sec.) the blind moves to the end position, stops there and switches the direction of travel.

If the blind is stopped during moving – by pressing a button – the drive changes the direction of travel.

Two-button operation / Switch operation

The system is operated as usual with a locked two-button switch or a rotary switch. The drive follows the direction of the button or the rotary knob.

After a power failure, the motor is operated via one-button. Only when both buttons have been pressed, the motor changes over to the 2-key operation.

9. Information for the specialist electrician

The X-line Raffstore can be connected to the mains either with a 4-wire connecting cable (STAK3 / Flat4-plug) or with a 5-wire connecting cable (STAK4 / Flat5 plug).

The operating concept (manual operation without KNX actuator, manual override, etc.) is crucial for the selection of the connecting cable. The setting of the motor also depends on the connection cable that is used.

If the sun protection is operated via push-button (one-button), a 4-wire connection cable will be sufficient.

The information applies for the one-button operation/push button operation.

If the sun protection is operated with a locked two- button switch or a rotary switch, a 5-wire connection cable is necessary.

The information applies for the two-button operation / switch operation.

Caution: Important installation instructions. Please follow all instructions since incorrect installation can lead to the destruction of the motor and the switching unit.

- The operations with the service clamps may be accomplished only by an electrical specialist.
- Motors with electronic limit stops can be connected in parallel.
- In this case the maximum load of the switching unit must not be exceeded.
- When changing the running direction the switchover must be effected through an off-position.
- When changing the running direction the switchover time must be at least 500 ms.

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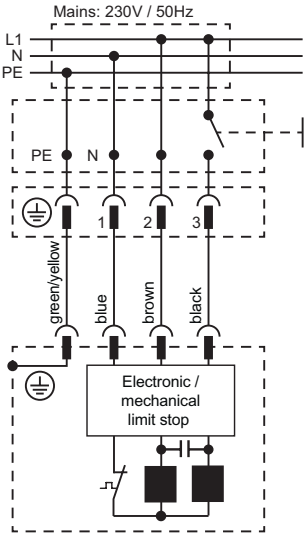
Connection for the one-button operation

- For three-phase current systems, the same outer conductor has to be used in order to activate the drive button and the continuous power supply.
- Connecting cables with plug connectors of the Hirschmann Company are tested and approved with couplings of the Hirschmann Company.
- In order to prevent a malfunction caused by coupling, the supply line (ref. NYM) from the actuator/switch to the motor must not exceed 100m in case of motors with electronic end stops.

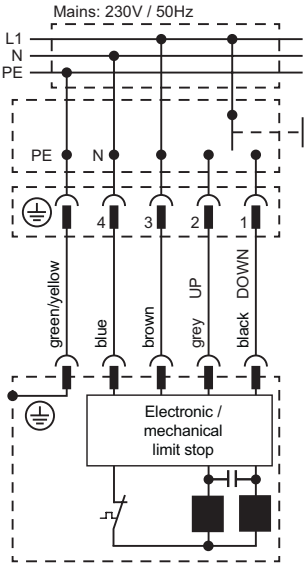
Attention: The connection diagrams of the 4 and 5-pin connector are different. A 4-pin connecting cable must be used for the motors.
GEIGER Flat4 with light blue ring.



Connection for the two-button operation

- A locking switch is here necessary (no simultaneous UP and DOWN commands).
- For three-phase current systems, the same outer conductor has to be used in order to activate the UP and DOWN direction and the continuous power supply.
- Connecting cables with plug connectors of the Hirschmann Company are tested and approved with couplings of the Hirschmann Company.
- In order to prevent a malfunction caused by coupling, the supply line (ref. NYM) from the actuator/switch to the motor must not exceed 100m in case of motors with electronic end stops.

Attention: The connection diagrams of the 4 and 5-pin connector are different.



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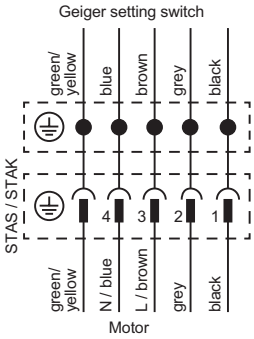
10. Adjusting the end positions with the GEIGER setting switch

The motor must not be connected with the KNX bus when setting the end positions – the KNX cable must not be plugged.



General

The GJ56 .. E09 can be set with a standard setting switch which supplies the motor with continuous current, which has a programming button and which allows a simultaneous UP / DOWN command.
If the setting switch has no programming button, the UP and DOWN buttons must be pressed simultaneously, instead of the programming button.
Alternatively, the motor can be set by interrupting the power supply and by using a push-button (see one-button operation).

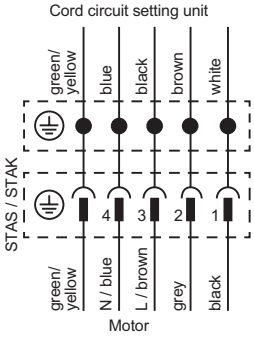
The GJ56.. E09 can be set with a standard setting switch which supplies the motor with continuous current and allows a simultaneous UP / DOWN command. In this case, instead of the programming button, the UP and DOWN buttons must be pressed simultaneously. Please connect the wires of the motor cable – respecting the colour code – with the service terminal on the GEIGER setting switch. When using different setting switches, please check the wire assignment.

Article number / GEIGER setting switch	
M56F152	with service terminal (D), 5 wires, KNX compatible
M56F153	with service terminal (CH), 5 wires, KNX compatible

11. Adjusting the end positions with a cord circuit setting unit

Prerequisite: The motor is positioned between the upper and the lower end position. The limit stop switch should not be pressed.

The GJ56.. E09 can be set with a cord circuit setting unit that supplies the motor with continuous current. Connect the wires of the motor cable as described in the graphic.



Learning / correction of the end positions

The upper and the lower end positions can be learned or corrected independently from each other.
Move the blind towards the end position that you want to set (DOWN for the lower end position/UP for the upper end position).
Interrupt the power supply for min. 2 seconds (cord circuit setting unit rocker in mid-position).
Turn the cord circuit setting unit to ON and press the SET button within 5 seconds and keep it pressed until the motor will start after about 10 seconds. Move the blind to the selected end position.
To store the end position, interrupt the power supply again for min. 2 seconds.
Repeat this procedure for the other end stop.

After interrupting the power supply, further operation is only possible after about 5 seconds.

Article number of the cord circuit setting unit	
4090	with service terminal (D), 5-wire

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12. Learning the end positions with the one-button operation

Prerequisite: The motor is positioned between the upper and the lower end position. The limit stop switch should not be pressed.

The GJ56.. E09 can be set with a standard setting switch that supplies the motor with continuous current. Neither a simultaneous UP / DOWN command nor a programming button are necessary for the one-button operation.

Learning / correction of the end positions

The upper and the lower end positions can be learned or corrected independently from each other.

Move the blind towards the end position that you want to set (DOWN for the lower end position/ UP for the upper end position).

Interrupt the power supply for at least 2 seconds while driving.

Turn the power supply on again and press the button within 5 seconds and keep it pressed until the motor will start after about 10 seconds. Move the blind to the selected end position.

To store the end position, interrupt the power supply again for min. 2 seconds.

After interrupting the power supply, further operation is only possible after about 5 seconds.

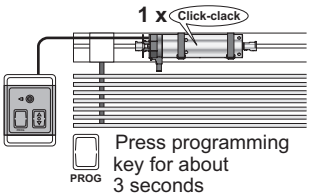
13. Learning the end positions with the two-button operation

Activate the programming mode

Prerequisite: The motor is positioned between the upper and the lower end position. The limit stop switch should not be pressed.

The GJ56.. E09 can be set with a standard setting switch which supplies the motor with continuous current and allows a simultaneous UP / DOWN command. In this case, instead of the programming button, the UP and DOWN buttons must be pressed simultaneously.

Press the programming key of the limit stop switch or the UP/DOWN keys simultaneously until, after about 3 seconds, the motor confirms “end position programming activated” with 1 x click-clack. Then release the key.



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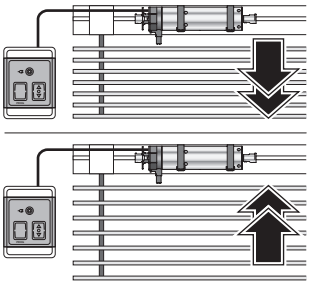
Programming/changing the end stops

The upper and lower end stops can be programmed and changed independently of each other.

- Run the motor in the direction of the desired end position. The motor interrupts its run just to show that it is in the programming mode:
- The direction in which the motor moves after the break* determines the end stop to be programmed. (UP = upper end stop, DOWN = lower end stop)
- When the desired end position is reached, move the motor in the opposite direction until 2 short breaks* show the last saved position.
- The programming is completed.

** As long as the interruption of movement has not yet occurred, corrections can be done.*



Start the setting process again to adjust another end position.

The referencing is automatically activated if the upper end position is programmed. Note: when referencing, the motor runs over the set upper end position until the limit stop switch.

If the upper end position is reprogrammed on position, after the end position had been programmed on the limit stop switch, the referencing is automatically switched on. If the upper end position is programmed on position again, the referencing remains switched off or on.

Cancel the programming mode:
In order to cancel the programming mode, press the programming keys (programming key/UP/DOWN keys/limit stop switch and DOWN key) until the motor confirms the cancellation of the programming mode after about 3 seconds with 2 x click-clack.

14. Factory setting

- The motor is set on the lower end position at the factory. The upper end stop is at the very other end. (at least lower end stop + 200 motor rotations).
- The motor command is in normal operation.
- The operating mode “one-button operation” is set. The two-button operation is only set after the two buttons (UP button and DOWN button) have been pressed once (and assuming a 5-wire connection).
- If an upper end position is learned, the referencing is switched on (factory setting).

Note: If the motor is installed in a closed Venetian blind and if the limit stop switch is used, the motor can be operated without further settings.

If the factory setting has been carried out and if the programming mode is activated, max. 100 revolutions can be done downwards. Reset to factory settings for a further run downwards.

15. Reset to factory setting (one-button operation)

Interrupt the power supply for min. 2 seconds.

Reconnect the power supply and press simultaneously within 5 seconds the LED button on the motor and the button and keep them pressed (approx. 10 seconds) until the motor confirms (1 x “click-click”). Hold the buttons down for a further 10 seconds until the motor confirms the reset (4 x “click-click”).

16. Reset to factory setting (two-button operation)

Press learning buttons (PROG button / UP and DOWN buttons / limit stop switch and DOWN button) for 10 seconds and keep them pressed until the motor responds (1 x “click-click”) after 3 and 6 seconds and confirms after about 10 seconds (4 x “click-click”). Then the motor is reset to factory settings. The position of the blind is stored as lower end position, the upper end position is deleted (the blind stops on the limit stop switch), the one-button operation is activated again and the referencing is on.

17. Reset to factory setting (with the cord circuit setting unit)

Interrupt the power supply for min. 2 seconds.

Turn the cord circuit setting unit to ON and press simultaneously within 5 seconds the LED button on the motor and the SET button on the cord circuit setting unit. Keep these permanently pressed for about 10 sec. until the motor confirms (1 x “click-click”). Keep the buttons pressed for another 10 seconds until the motor confirms the reset (4 x “click-click”).

18. Auto-referencing on limit stop switch

The referencing on the limit stop switch can compensate a possible drifting of the upper end position due to the modified winding behaviour of the lifting tapes.

If the referencing has been activated (blind length adjustment), the next UP run is done till the limit stop switch. The variation in distance between the upper limit position and the limit stop switch is stored.

After 1, 5, 20 and then every 50 cycles on the upper end stop, the motor runs against the limit stop switch in order to test if the variations in distance have changed. If this is the case, the upper end position is readjusted.

The motor stops on the limit stop switch by the reference runs.

Enable / disable auto-referencing

Activation/deactivation of the auto-referencing is performed in the ETS in the section “General”.

19. Obstacle detection and anti-freeze protection

For an optimal operation of the obstacle detection function, move the blind from bottom to top without interruption, after the programming has been completed.

After an obstacle detection (e.g. obstacle or blind frozen to the window sill), the UP direction is blocked.

A short command in the DOWN direction releases the UP direction.

20. What to do if…

Problem	Solution
Motor does not run.	• Motor not plugged in. Please check the plug connection. • Check connecting cable for possible damage. • Check the mains voltage and allow the cause of the voltage breakdown to be tested by a specialist electrician.
Instead of in the downwards direction, motor runs upwards (5-wire connecting cable).	• The control leads are interchanged. Exchange black/brown control leads.
Motor only runs in one direction.	• Motor in the end position. Run motor in the opposite direction. Readjust the end positions, if necessary.
After running several times, the motor breaks down and no longer responds.	• The motor became too hot and has switched off. Try it again after a cooling time of about 15 min.
The blind is in the upper position, actuates the limit stop switch and can no longer be moved downwards.	• The motor was installed upside down or the lower end position has been overrun and the lift tapes were wound up incorrectly. Allow free mobility of the limit stop switch. Reset the end stops.

Programming LED	Meaning
LED lights red	• Motor in programming mode
LED flashes red	• Motor selected in ETS software
LED flashes alternately red/green	• No Bus system found

21. Maintenance

The drive is maintenance-free.

22. Technical data

Technical data GJ56.. E09 with electronic end stop			
	GJ5606	**GJ5610**	**GJ5620**
Voltage		230 V~/50 Hz	
Current	0,40 A	0,60 A	0,85 A
Cos Phi (cosφ)		> 0,95	
Inrush current (factor)		x 1,2	
Power	90 W	135 W	190 W
Torque	6 Nm	10 Nm	2 x 10 Nm
Speed		26 rpm	
Protection class		IP 54	
Limit switch range		200 rotations	
Operating mode	S2 6 min.	S2 4 min.	S2 4 min.
Length	324,5 mm	329,5 mm	356,7 mm
Diameter		55 mm	
Weight	ca. 1,60 kg	ca. 1,70 kg	ca. 2,20 kg
Storage temperature/ Humidity	T = -15°C .. +70°C / dry and non-condensing place		

Subject to technical modifications. Please find information to the ambient temperature range of our GEIGER motors under www.geiger.de

23. Notes on waste disposal

Recycling of packaging materials

In the interest of environmental protection, please contact your local government's recycling or solid waste management department to learn more about the services it provides.

Waste disposal of electric and electronic equipment

Electrical and electronic equipment must be collected and disposed of separately in accordance with EU regulations.

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24. Declaration of conformity

GEIGER
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EU Declaration of Conformity

Gerhard Geiger GmbH & Co. KG
Antriebstechnik
Schleifmühle 6
D-74321 Bietigheim-Bissingen

Product designation:

Venetian blinds motor, motor for rolling shutters, motor for awnings

Type designation:

GJ56.., GR45.., GU45.., GSI56.., GS56.., GS45.., GB45.., GB35..

Applied directives:

2006/42/EG
2014/53/EU
2011/65/EU + (EU)2015/863 + (EU)2017/2102

Applied standards:

EN 60335-1:2012
EN 60335-1:2012/AC:2014
EN 60335-1:2012/A11:2014
EN 60335-1:2012/A13:2017
EN 60335-1:2012/A1:2019
EN 60335-1:2012/A14:2019
EN 60335-1:2012/A2:2019
EN 60335-2-97:2006+A11:2008+A2:2010+A12:2015
EN 62233:2008
EN 62233 Ber.1:2008
EN 55014-1:2017
EN 55014-2:2015
EN 61000-3-2:2019
EN 61000-3-3:2013

ETSI EN 301 489-1 V2.2.0(2017-03)
ETSI EN 301 489-3 V2.1.1(2019-03)
ETSI EN 300 220-2 V3.1.1(2017-02)

DIN EN IEC 63000:2019-05

Authorized representative for technical data:

Gerhard Geiger GmbH & Co. KG

Address:

Schleifmühle 6, D-74321 Bietigheim-Bissingen

Bietigheim-Bissingen, 06.04.2021

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Sitz Bietigheim-Bissingen | Amtsgericht Stuttgart HRA 300591 | USt-IdNr. DE145002146
Komplementär: Geiger Verwaltungs-GmbH | Sitz Bietigheim-Bissingen | Amtsgericht Stuttgart HRB 300481
Geschäftsführer: Roland Kraus | WEEE-Reg.-Nr. DE47902323

100W1518 en 0421

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Current declarations of conformity are available under www.geiger.de

25. Integration of the X-line Raffstore in a KNX system using ETS

Introduction

This chapter describes the scope of performance of the KNX X-line Raffstore GJ56.. E09 from the perspective of the ETS.

The data described here are all configurable for the ETS system integrator.

For simplified commissioning, the motor is delivered from the factory with the address 15.15.241. After use of the ETS function “draining” the motor has the address 15.15.255.

ETS

The various levels are described below. At the mention of the objects, an “output” refers to the status information that is sent to the KNX bus. An “input” refers to a command that is sent from another device to the module.

Basically some objects are always available.

Number	Name	Object Function	Description	Group Addresses	Length	C	R	W	T	U	Data Type	Priority
8	Up /Down	Input			1 bit	C	-	W	-	-	up/down	Low
9	Slat adjustment / Stop	Input			1 bit	C	-	W	-	-		Low
10	Stop	Input			1 bit	C	-	W	-	-	switch	Low
12	Act. Direction	Output			1 bit	C	R	-	T	-	switch	Low
13	Motor in motion	Output			1 bit	C	R	-	T	-	switch	Low
19	Status of upper position	Output			1 bit	C	R	-	T	-	switch	Low
20	Status of lower position	Output			1 bit	C	R	-	T	-	switch	Low
21	Motor blocked	Output			1 bit	C	R	-	T	-	switch	Low
22	Version number	Output			14 Byte	C	R	-	-	-	Character String (ASCII)	Low

Inputs (motor control):

- UP / DOWN (# 8)
  - Value = “0” Blind moves UP
  - Value = “1” Blind moves DOWN
- Slat adjustment / stop (# 9)
  - Value = “0” Slat opens
  - Value = “1” Slat closes
  - The travel distance is configurable (section Venetian blind).
  - If the slat is at 0% and should be further opened or is at 100% and should be further closed, it rotates in the opposite direction and the selected end position is approached again.
- Stop (# 10)
  - A moving blind is stopped regardless of the value
  - If the blind is not operated, nothing will happen

Outputs (information about the current status of the motor):

- Current direction (# 12)
  - “0” Motor in UP direction
  - “1” Motor in DOWN direction
- Motor in motion (# 13)
  - “0” Motor in neutral position now
  - “1” Motor is now moving
- Status upper position (# 19)
  - “1” , Motor in the upper end position
- Status lower position (# 20)
  - “1” Motor in the lower end position
- Motor is blocked (# 21)
  - “0” No blockage
  - “1” The motor has detected a blocking of the blind
- Version number (# 22)
  - Motor version

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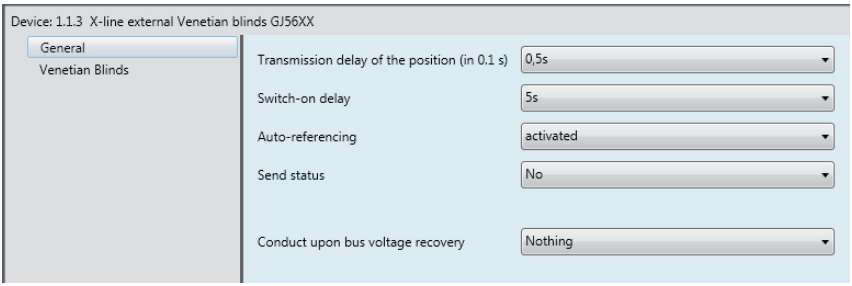
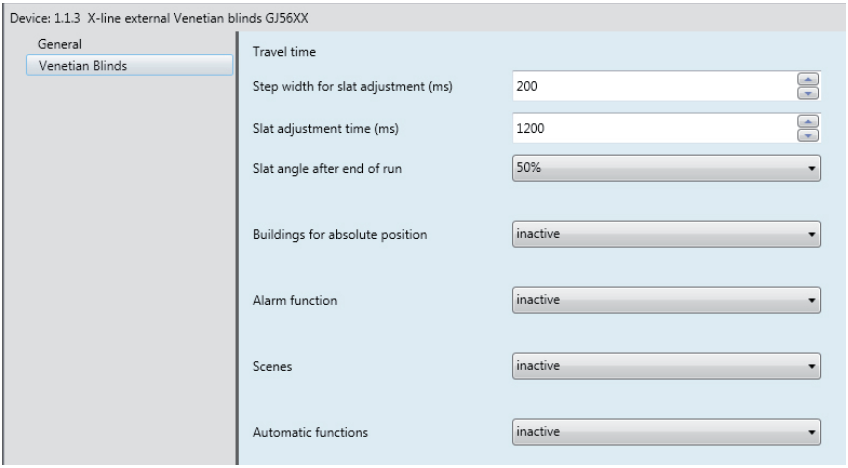
Basic view

General



1. At what intervals should the position be transmitted on the bus during driving?
   This setting affects the objects # 16 & # 17.
2. To reduce the bus load in case of larger systems, each motor can be programmed with its own delay time until the current status is transmitted after switching on power.
3. The auto-referencing allows the system integrator to activate or deactivate the function “auto-referencing” inside the motor during operation. The function “auto-referencing” is referred to in the general description of the motor.
4. If, after a stop, the motor should send to the bus the exact position of the blind/slats select “Yes”.
5. To reduce the bus load, a delay time can be individually adjusted for each motor
6. What happens after a bus voltage recovery?
   If a fixed position should be approached, the respective states can be entered.

Venetian blinds



(1) If this selection is activated, the item “alarm function” is shown on the left.
(2) If this selection is activated, the item “scenes” is shown on the left.
(3) If this selection is activated, the item “automatic function” is shown on the left.

Please find in the appendix a summary list of all ETS communication objects.

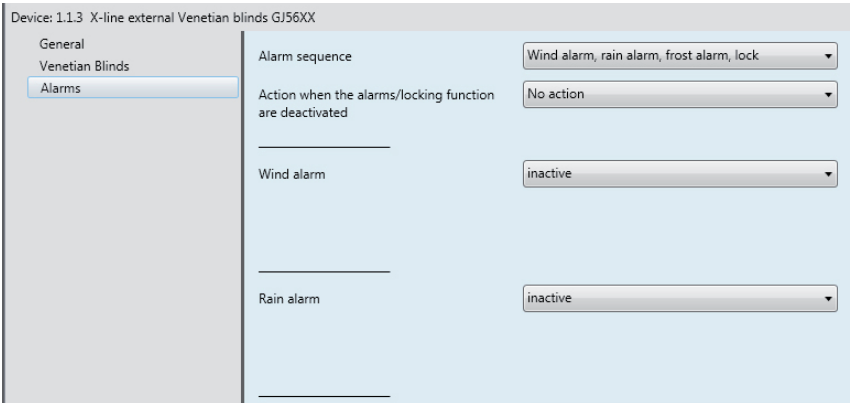
In order to optimally control the motor, various parameters can be set individually.

- How should the slat be adjusted when using object # 9?
  - Increment
    - Minimum 100 ms
    - Maximum 10000 ms
  - Total slat adjustment time from 0% to 100%
    - Typically, the time is 1200ms
- What is the standard slat position when the motor moves from its end position?
  Note: If a simple UP/DOWN or "go to % position" command is triggered from a middle position and an end position is not approached, the slat angle is restored, as it was set at the beginning of the operation.

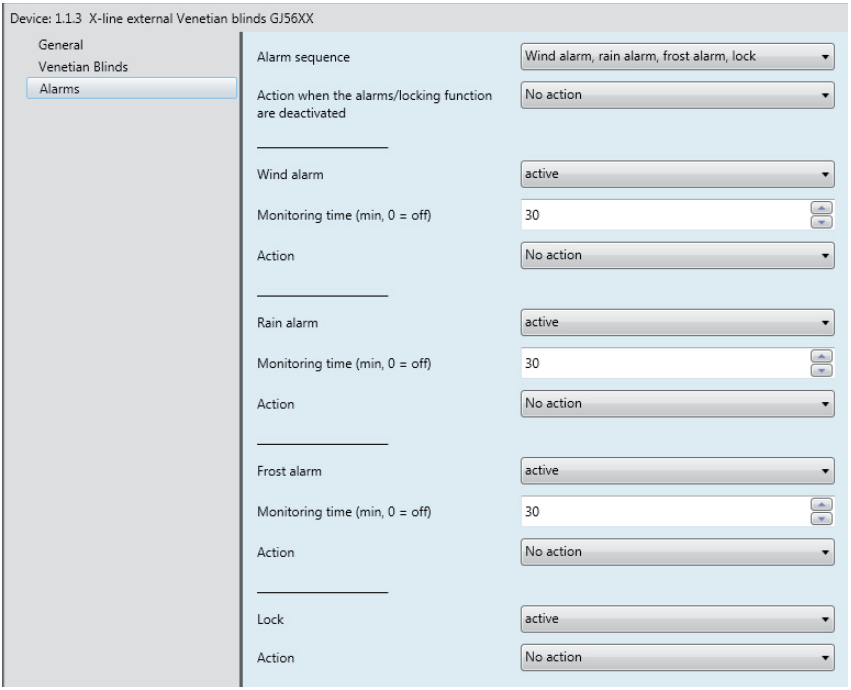
In order to adapt the motor to the specific customer needs, further options can be activated, in addition to the standard available options.

- Certain objects are available for an exact positioning. These allow an accurate positioning on various positions for the blind and the slats.
  - Blind height # 14
    - Input
    - Current blind height in 0% -100% (0-255)
  - Slat angle # 15
    - Input
    - Current slat angle in 0% -100% (0-255)
  - Blind height # 16
    - Output
    - What is the exact position of the blind now?
  - Slat angle # 17
    - Output
    - What is the exact position of the slat?
- Different alarm objects can be activated that allow a hierarchical prioritization. These are available:
  - Wind alarm
  - Rain alarm
  - Frost Alarm
  - General
  - Lock
- The control over scenes can be activated.
- Objects for separate automatic control can be activated.

Activate alarm functions



View when everything is activated:



Function:

- If one of the objects is set to “active”, the specified action will be carried out.
- If a monitoring time other than “0” is entered, a “good” signal is expected every x minutes. If this signal is not given, the blind moves in the predetermined protection position.
- The order of the alarms can be configured.

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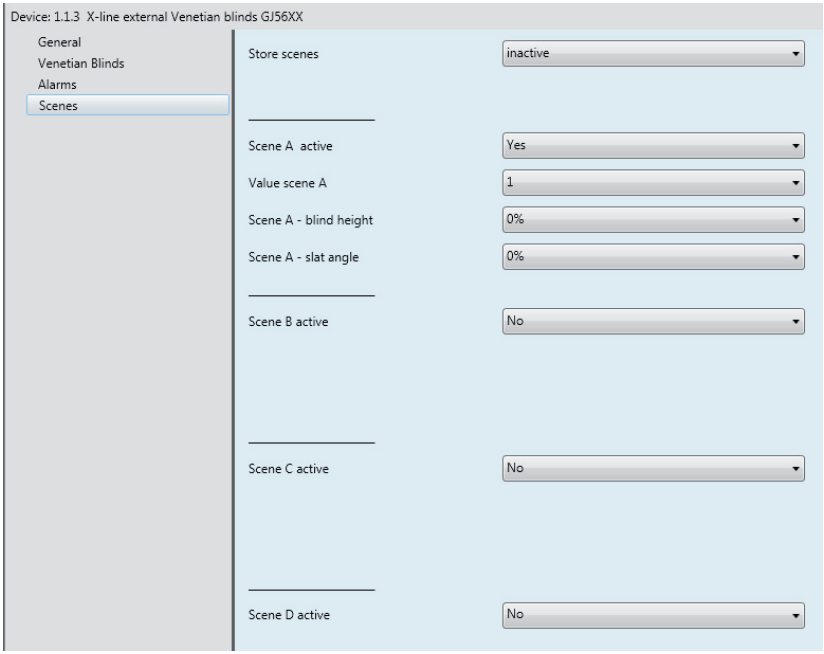
Allows access to the objects

- Wind alarm (input)> behaviour after customer setting
- Rain alarm (input)> behaviour after customer setting
- Frost alarm (input)> behaviour after customer setting
- Lock (input)> behaviour after customer setting

Scenes



The individual configuration from “scene A” to “scene H” is possible.The settings are the same for all scenes:

- Enable / Disable
- Scene number (1-64)
- End position of blind
- End angle of the slats

Note: For other products, the scenes “1-8” can be selected. For Venetian blinds the scenes are named with letters to avoid any possibility of confusion with the scene numbers.

Depending on customer requirements, this configuration of each scene can be overwritten by the customer during run-time. For this purpose, please use a suitable control device (for example push-button) and make sure that the function “store scenes” is activated.

Allows access to the objects

- Scene (input) > Activate the respective scene

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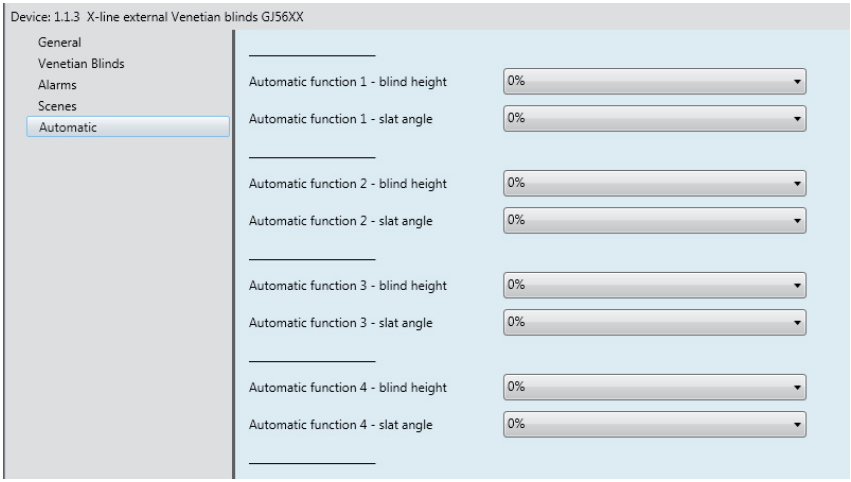
Automatic positions



The automatic positions are used for approaching fixed positions.

In contrast to scenes, automatic positions cannot be changed at runtime and therefore are particularly suitable to delimit recurring processes from manual operation.

Allows access to the objects

- Automatic 1 (input)> approaching the respective position
- Automatic 2 (input)> approaching the respective position
- Automatic 3 (input)> approaching the respective position
- Automatic 4 (input)> approaching the respective position

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Listing of ETS communication objects

Number	Name	Object function	Length
0	Automatic position 1	Input	1 bit
1	Automatic position 2	Input	1 bit
2	Automatic position 3	Input	1 bit
3	Automatic position 4	Input	1 bit
4	Wind alarm	Input	1 bit
5	Rain alarm	Input	1 bit
6	Frost alarm	Input	1 bit
7	Lock	Input	1 bit
8	UP / DOWN	Input	1 bit
9	Slat adjustment / stop	Input	1 bit
10	Stop	Input	1 bit
11	Scene	Input	1 Byte
12	Current direction	Output	1 bit
13	Motor in motion	Output	1 bit
14	Blind height	Input	1 Byte
15	Slat angle	Input	1 Byte
16	Blind height	Output	1 Byte
17	Slat angle	Output	1 Byte
18	Valid position	Output	1 bit
19	Status upper position	Output	1 bit
20	Status lower position	Output	1 bit
21	Motor is blocked	Output	1 bit
22	Version number	Output	14 Byte

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Bei technischen Fragen steht Ihnen unser Service-Team unter +49 (0) 7142 938 333 gerne zur Verfügung.

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