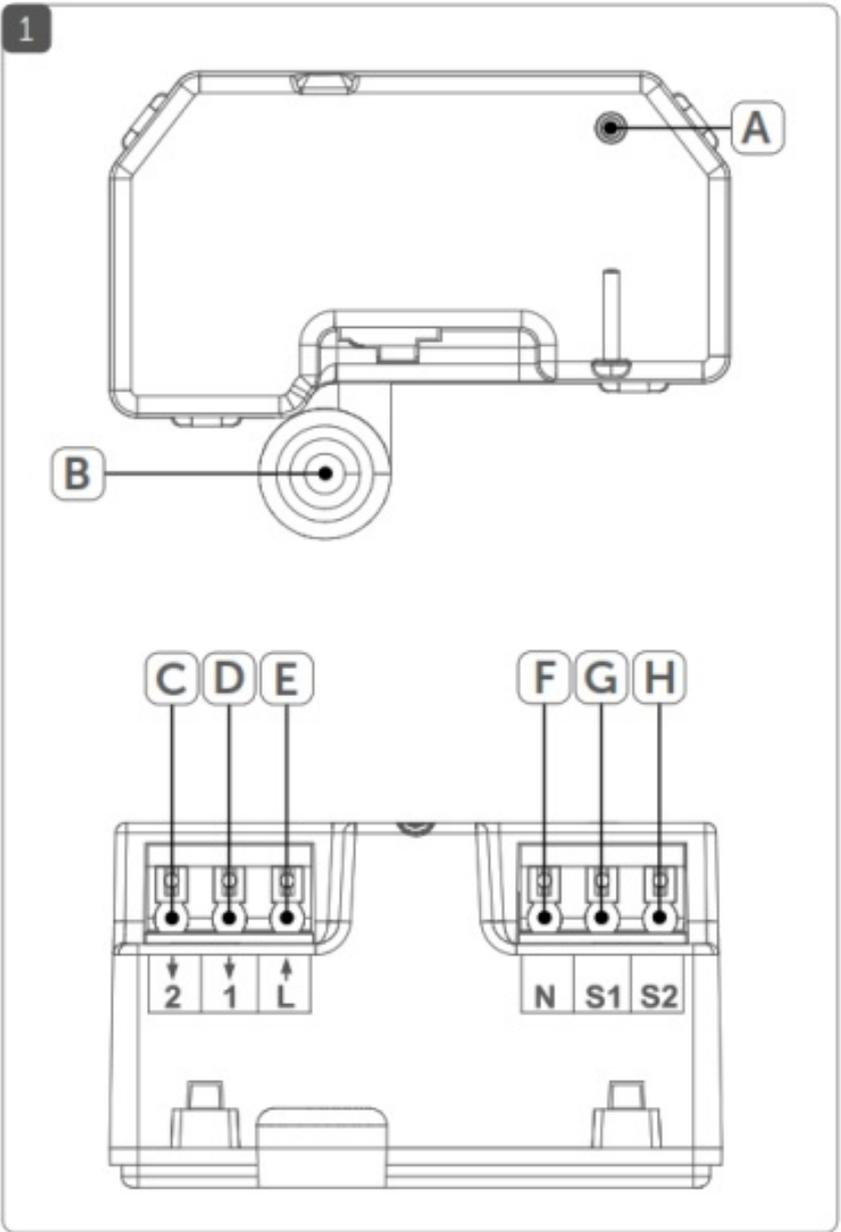


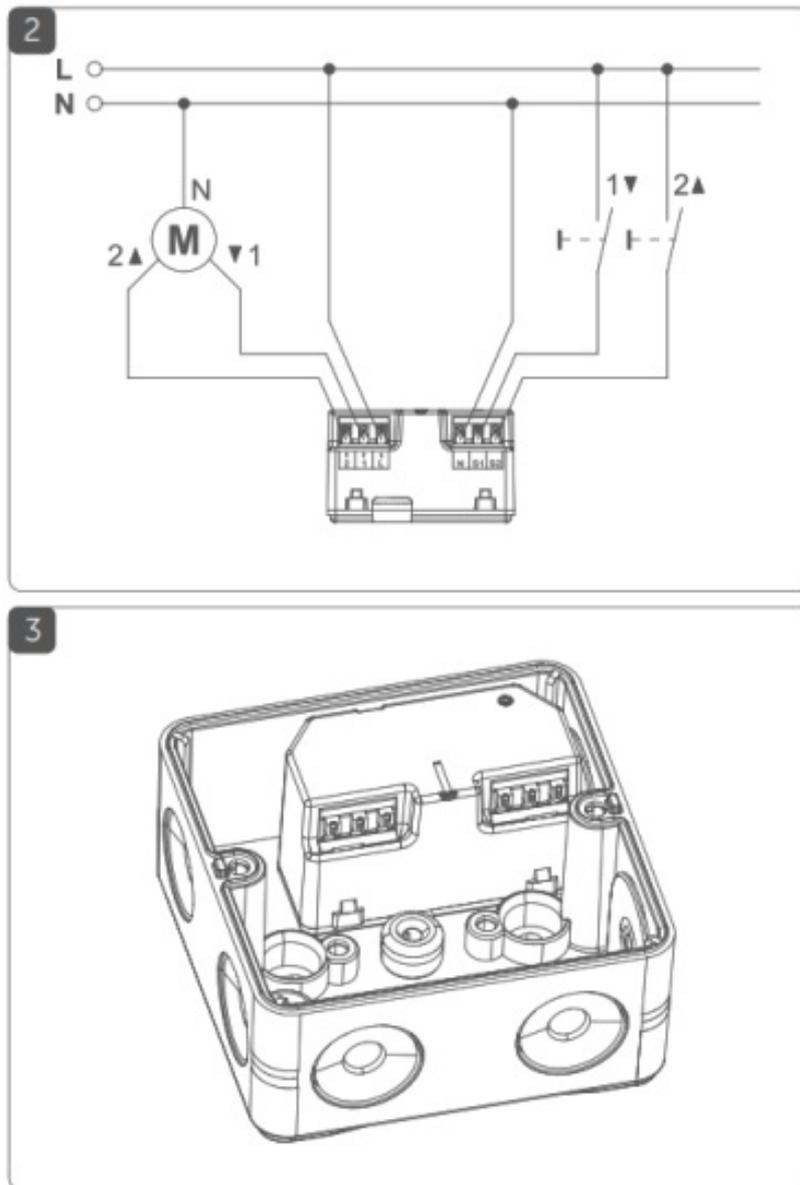
**Installation instruction and
operating manual
Shutter Actuator – flush-mount
HmIP-FROLL**

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IP FROLL Shutter Actuator Flush Mount





Package contents

Quantity	Description
1	Homematic IP Shutter Actuator – flush-mount
1	User manual

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Information about this manual

Please read this manual carefully before beginning operation with your Homematic IP component.

Keep the manual so you can refer to it at a later date if you need to.

If you hand over the device to other persons for use, please hand over this manual as well.

Symbols used:

	Attention! This indicates a hazard.
	Please note: This section contains important additional information.

Hazard information

 Do not open the device. It does not contain any parts that can be maintained by the user. There is a risk of electric shock if the device is opened. If you have any doubts, have the device checked by an expert.

 For safety and licensing reasons (CE), unauthorized change and/or modification of the device is not permitted.

 The device has not been designed to support safety disconnection.

 Do not use the device if there are signs of damage to the housing, control elements or connecting sockets, for example. If you have any doubts, have the device checked by

an expert.

 The device may only be operated in dry and dustfree environment and must be protected from the effects of moisture, vibrations, solar or other methods of heat radiation, cold and mechanical loads.

 The device is not a toy; do not allow children to play with it. Do not leave packaging material lying around. Plastic films/bags, pieces of polystyrene, etc. can be dangerous in the hands of a child.

 We do not assume any liability for damage to property or personal injury caused by improper use or the failure to observe the hazard information. In such cases, any claim under warranty is extinguished! For consequential damages, we assume no liability!

 The device may only be used for fixed installations. The device must be securely attached within a fixed installation.

 The actuator is part of the building installation. The relevant national standards and directives must be taken into consideration during planning and set-up. The device has been designed solely for operation on a 230 V/50 Hz AC supply. Only qualified electricians (to VDE 0100) are permitted to carry out work on the 230 V mains. Applicable accident prevention regulations must be complied with whilst such work is being carried out. To avoid electric shocks from the device, please disconnect the mains voltage (trip the miniature circuit-breaker). Noncompliance with the installation instructions can cause fire or introduce other hazards.

 When connecting to the device terminals, take the permissible cables and cable cross sections into account.

 Loads connected to the relay outputs require sufficient insulation.

 Please take the technical data (in particular the maximum permissible switching capacity of the relay and the type of load to be connected) into account before connecting a load! Do not exceed the capacity specified for the device.

 Exceeding this capacity could lead to the destruction of the device, fires or electric shocks.

 The circuit to the which the device and the load will be connected has to be secured by a cable protection switch in accordance with EN60898-1 (tripping characteristic B or C, max. 16 A rated current, min. 6 kA interrupting rating, energy limiting class 3).  Installation regulations according to VDE 0100 and HD382 or 60364 have to be

considered. Users must be able to easily access the cable protection switch. This must be marked as disconnecting device for the actuator.

 Before the actuator is connected, remove the fuse from the fuse box.

 The device may only be operated within residential buildings.

 Using the device for any purpose other than that described in this operating manual does not fall within the scope of intended use and shall invalidate any warranty or liability.

 The device can only be used with tube motors that have integrated obstacle detection.

Function and device overview

The Homematic IP Shutter Actuator is suitable for installation with a flush-mounting or surface-mounting box and offers individual control of connected AC motors used with shutters and awnings.

Thus, electrically operated window coverings are moved up and down automatically. Shutters and awnings are operated easily via an external push-button, via remote control or the Homematic IP app.

Device overview (see fig. 1):

(A) System button (reset button und LED)

(B) Fixing lug

(C) Connecting terminal 2  (motor „up“)

(D) Connecting terminal 1  (motor “down”)

(E) Connecting terminal for L (phase conductor)

(F) Connecting terminal for N  (neutral conductor)

(G) Connecting terminal for S1 (push-button input “down”)

(H) Connecting terminal for S2 (push-button input “up”)

General system information

This device is part of the Homematic IP smart home system and works with the Homematic IP radio protocol. All devices of the system can be configured comfortably and individually with the Homematic IP smartphone app. Alternatively, you can operate

the Homematic IP devices via the Homematic Central Control Unit CCU2 or in connection with various partner solutions. The available functions provided by the system in combination with other components are described in the Homematic IP User Guide. All current technical documents and updates are provided at www.eQ-3.de.

Start-up

5.1 Installation instructions



Please read this entire section before starting to install the device.



Before installation, please note the device number (SGTIN) labelled on the device as well as the exact installation location in order to make later allocation easier. You can also find the device number on the QR code sticker supplied.



Please note! Only to be installed by persons with the relevant electro-technical knowledge and experience!*

Incorrect installation can put

- your own life at risk;
- and the lives of other users of the electrical system.

Incorrect installation also means that you are running the risk of serious damage to property, e.g. because of a fire.

You may be personally liable in the event of injuries or damage to property.

Contact an electrical installer!

*Specialist knowledge required for installation:

The following specialist knowledge is particularly important during installation:

- The “5 safety rules” to be used:
Disconnect from mains; Safeguard from switching on again; Check that system is deenergised; Earth and short circuit; Cover or cordon off neighbouring live parts;
- Select suitable tool, measuring equipment and, if necessary, personal safety equipment;
- Evaluation of measuring results;

- Selection of electrical installation material for safeguarding shut-off conditions;
- IP protection types;
- Installation of electrical installation material;
- Type of supply network (TN system, IT system, TT system) and the resulting connecting conditions (classical zero balancing, protective earthing, required additional measures etc.).

 Installation may only take place in normal commercial switch boxes (device boxes) in accordance with DIN 49073-1 or surface-mounting boxes in accordance with DIN 60670-1 (e.g. Abox 025 or Abox 040).

 The device can only be used with tube motors that have integrated obstacle detection.

 Please observe the hazard information in section „2 Hazard information“ on page 28 during installation.

Permitted cable cross sections for connecting to the shutter actuator are:

rigid cable [mm ²]	flexible cable with/without ferrule [mm]
0.75 – 1.50	0,75 – 1,50

5.2 Installation

You can install the shutter actuator

- in a flush-mounting box or
- in a surface-mounting box.

5.2.1 Flush-mounting box installation

To install the shutter actuator in a flush-mounting box, please proceed as follows:

- Switch off the fuse of the power circuit.
- Connect the switched phase conductors for connecting terminals 1 and 2 to the motor as follows (see fig. 2):
 - Connecting terminal 2 (C): “Up”
 - Connecting terminal 1 (D): “Down”

- Connect the phase conductor to connecting terminal L (E) (see fig. 2).
- Connect the neutral conductor to connecting terminal N (F) (see fig. 2).
- Connect an external shutter push-button to connecting terminal S1 and S2 (see fig. 2):
 - Connecting terminal S1 (G): “Down”
 - Connecting terminal S2 (H): “Up”
- Connect the neutral conductor of the motor to the neutral conductor of the house installation.
- Connect the phase connection of the shutter push-button with the phase conductor of the house installation.
- Fix the actuator to an appropriate flush-mounting box. If required, you can remove the fixing lug (B).
- Close the flush-mounting box using an appropriate cover.
- Switch the fuse of the power circuit on again to activate the teach-in mode of the device (see „5.3 Teaching-in“ on page 38).

5.2.2 Surface-mounting box installation

To install the shutter actuator in a surface-mounting box, please proceed as follows:

- Switch off the fuse of the power circuit.
- Connect the switched phase conductors for connecting terminals 1 and 2 to the motor as follows (see fig. 2):
 - Connecting terminal 2 (C): “Up”
 - Connecting terminal 1 (D): “Down”
- Connect the phase conductor to connecting terminal L (E) (see fig. 2).
- Connect the neutral conductor to connecting terminal N (F) (see fig. 2).
- Connect an external shutter push-button to connecting terminal S1 and S2 (see fig. 2):
 - Connecting terminal S1 (G): “Down”
 - Connecting terminal S2 (H): “Up”
- Connect the neutral conductor of the motor to the neutral conductor of the house installation.
- Connect the phase connection of the shutter push-button with the phase conductor of the house installation.
- Fix the actuator to an appropriate surface-mounting box (e.g. Abox 025 or Abox 040) (see fig. 3).

- Fix the actuator to the holding mandrel using the fixing lug. Screw the actuator if required.
- Close the surface-mounting box using the corresponding cover.
- Switch the fuse of the power circuit on again, to activate the teach-in mode of the device (see „5.3 Teaching-in“ on page 38).

5.3 Teaching-in

 Please read this entire section before starting the teach-in procedure.

 First set up your Homematic IP Access Point via the Homematic IP app to enable operation of other Homematic IP devices within your system. For further information, please refer to the operating manual of the Access Point.

 You can connect the device either to the Access Point or to the Homematic Central Control Unit CCU2. For detailed information, please refer to the Homematic IP User Guide, available for download in the download area of www.eQ-3.de.

To integrate the shutter actuator into your system and enable it to communicate with other Homematic IP devices, you must teach-in the device to your Homematic IP Access Point first.

To teach-in the shutter actuator, please proceed as follows:

- Open the Homematic IP app on your smartphone.
- Select the menu item “Teach-in device”.
- After installation, the teach-in mode remains activated for 3 minutes.

 If the 3 minutes have expired, disconnect and reconnect the mains voltage to start the teach-in mode again.

- Your device will automatically appear in the Homematic IP app.
- To confirm, please enter the last four digits of the device number (SGTIN) in your app or scan the QR code. Therefore, please see the sticker supplied or attached to the device.
- Please wait until teach-in is completed.
- If teaching-in was successful, the LED lights up green. The device is now ready for use.
- If the LED lights up red, please try again.

- Complete the setup of your shutter actuator by following the instructions in the app.
- In the app, give the device a name and allocate it to a room.

Operation

After setup, you can perform initial operating functions via the external shutter push-button:

- Short button press button S1 or S2: The motor for the shutters/awnings moves into the corresponding end position.
- Short button press opposite direction: The motor stops.
- Long button press: The motor moves into the corresponding direction until the push-button is released or the end position of the shutter or awning is reached.

Troubleshooting

7.1 Command not confirmed

If at least one receiver does not confirm a command, the device LED lights up red at the end of the failed transmission process. The failed transmission may be caused by radio interference (see „10 General information about radio operation“ on page 45). This may be caused by the following:

- Receiver cannot be reached.
- Receiver is unable to execute the command (load failure, mechanical blockade, etc.).
- Receiver is defective.

7.2 Duty cycle

The duty cycle is a legally regulated limit of the transmission time of devices in the 868 MHz range. The aim of this regulation is to safeguard the operation of all devices working in the 868 MHz range.

In the 868 MHz frequency range we use, the maximum transmission time of any device is 1% of an hour (i.e. 36 seconds in an hour). Devices must cease transmission when they reach the 1% limit until this time restriction comes to an end. Homematic IP devices are designed and produced with 100% conformity to this regulation. During normal operation, the duty cycle is not usually reached. However, repeated and radio-intensive

teachin processes mean that it may be reached in isolated instances during start-up or initial installation of a system.

If the duty cycle is exceeded, this is indicated by one long red lighting of the device LED, and may manifest itself in the device temporarily working incorrectly. The device starts working correctly again after a short period (max. 1 hour).

7.3 Error codes and flashing sequences

Flashing code	Meaning	Solution
Short orange flash- ing	Radio transmis- sion/attempting to t ransmit/data transmission	Wait until the transmission is completed.
1x long green lighting	Operation confirm ed	You can continue operation.
Short orange flash- ing (every 10 seconds)	Teach-in mode ac tive	Please enter the last four numbers of the d evice serial number to confirm (see „5.3 Te aching-in” on page 38).
1x long red lighting	Transmission faile d or duty cycle li mit is reached	Please try again (see sec. „7.1 Command not confirmed” on page 40 or „7.2 Duty cycle” on page 41).
6x long red flashing	Device defec- tive	Please see your app for error message or contact your retailer.
1x orange and 1 x gr een lighting	Test display	Once the test display has stopped, you ca n continue.

Restore factory settings

 The factory settings of the device can be restored. If you do this, you will lose all your settings.

To restore the factory settings of the shutter actuator, please proceed as follows:

- Press and hold down the system button (A) for at least 4 seconds using a VDE screwdriver, until the LED quickly starts flashing orange.
- Release the system button again.
- Press and hold down the system button again for 4 seconds, until the LED lights up green.
- Release the system button to finish the procedure.

The device will perform a restart.

After the restart, you can again integrate your device into your Homematic IP system.

Maintenance and cleaning

 The product does not require any maintenance. Enlist the help of an expert to carry out any maintenance or repairs.

 The mains voltage must be disconnected before the device is removed (trip the miniature circuitbreaker). Only qualified electricians (to VDE 0100) are permitted to carry out work on the 230 V mains.

 Clean the device using a soft, lint-free cloth that is clean and dry. You may dampen the cloth a little with lukewarm water in order to remove more stubborn marks. Make sure that no moisture will ingress into the housing. Do not use any detergents containing solvents, as they could corrode the plastic housing and label.

General information about radio operation

Radio transmission is performed on a non-exclusive transmission path, which means that there is a possibility of interference occurring. Interference can also be caused by switching operations, electrical motors or defective electrical devices.

 The range of transmission within buildings can differ greatly from that available in the open air. Besides the transmitting power and the reception characteristics of the receiver, environmental factors such as humidity in the vicinity have an important role to play, as do on-site structural/screening conditions.

Hereby, eQ-3 AG, Maiburger Str. 29, 26789 Leer/Germany declares that the radio equipment type Homematic IP HmIP-FROLL is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet

address: www.eq-3.com

Technical specifications

Device short description:	HmIP-FROLL
Supply voltage:	230 V/50 Hz
Current consumption:	2.2 A max.
Power consumption in standby:	0.2 W
Max. switching capacity:	500 VA
Load type:	motor load
Relay:	1x NO contact, 1x changeover contact
Cable type and cross section:	rigid and flexible cable, 0.75-1.5 mm ²
Installation:	only in switch boxes (device boxes) in accordance with DIN 49073-1 or junction boxes (surface-mounting boxes) in accordance with DIN 60670-1
Degree of protection:	IP20
Protection class:	II
Ambient temperature:	-10 to +55 °C
Dimensions (W x H x D):	54 x 33 x 41 mm
Weight:	40 g
Radio frequency band:	868.0-868.6 MHz 869.4-868.65 MHz
Maximum radiated power:	10 dBm

Receiver category:	SRD category 2
Typ. open area RF range:	180 m
Duty cycle:	< 1 % per h/< 10 % per h

Subject to technical changes.

Instructions for disposal



Do not dispose of the device with regular domestic waste! Electronic equipment must be disposed of at local collection points for waste electronic equipment in compliance with the Waste Electrical and Electronic Equipment Directive.

Information about conformity



The CE sign is a free trading sign addressed exclusively to the authorities and does not include any warranty of any properties.



For technical support, please contact your retailer.

Kostenloser Download der Homematic IP App!

Free download of the Homematic IP app!

 	 
https://itunes.apple.com/de/app/homematic-ip/id1012842369?mt=8	https://play.google.com/store/apps/details?id=de.eq3.pscc.android&hl=de

homematic 

Manufacturer's authorised representative:

eQ-3 AG

Maiburger Straße 29

Documents / Resources

	<p>homematic IP FROLL Shutter Actuator Flush Mount [pdf] User Manual</p> <p>FROLL Shutter Actuator Flush Mount, FROLL, Shutter Actuator Flush Mount, Actuator Flush Mount, Flush Mount</p>
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References

- [User Manual](#)

Homematic

IP

Actuator Flush-Mount, Flush Mount, FROLL, FROLL Shutter Actuator Flush Mount, Homematic IP, Shutter Actuator Flush-Mount

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