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homematic IP HmIP-SWDO-2 Window and Door Contact



# **Specifications**

• Model: HmIP-SWDO-2 | HmIP-SWDO-A

Power Supply: 1.5V LR03/Micro/AAA Battery

• Mounting: Double-sided adhesive tape or screws

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# **Package contents**

- 1x Window and Door Contact optical
- 2x Caps (brown/white)
- 1x Double-sided adhesive strips

- 2x Countersunk head screws 2.2 x 13 mm
- 1x Reflecting sticker (for dark surfaces)
- 1x 1.5 V LR03/micro/AAA battery
- 1x Operating manual

## Information about this manual

Please read this manual carefully be-fore operating your Homematic IP components. 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

- Important! This indicates a haz-ard.
- Please note. This section contains important additional information!

#### **Hazard information**

- Never recharge single-use batter-ies. Do not throw batteries into a fire. Do not expose batteries to excessive heat. Do not short-circuit batteries. Doing so will present a risk of explosion.
- For safety and licensing reasons (CE), unauthorised change and/or modification of the device is not permitted.
- Do not open the device. It does not contain any parts that need to be maintained by the user. In the event of an error, please have the device checked by an expert.
- The device may only be operated in a dry and dust-free environ-ment and must be protected from the effects of moisture, vibrations, constant exposure to sunlight or other sources 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 accept no liability for damage to property or personal injury caused by improper
  use or the failure to observe the hazard warnings. In such cases, all warranty claims
  are void. We accept no liability for any consequential damage.

- The device is only suitable for use in residential settings.
- Using the device for any purpose other than that described in this operating manual does not fall within the scope of intended use and will invalidate any warranty or liability.

#### Function and device overview

The Homematic IP Window and Door Contact – optical reliably detects open windows and doors by means of an integrated infrared sensor. Open windows and doors are immediately displayed in the Homematic IP app – so you can keep a close eye on your windows and doors even while out and about. Thanks to the two different caps, the colour of the device adapts to the door and window frames. Furthermore, installation of the window and door contact is easy thanks to the supplied adhesive strips or screws. Thanks to the integrated tamper contact, you are immediately informed by means of the app of any tampering with the window and door contact.

 Strong extraneous light and contamination of the sensor can lead to functional limitations.

#### **Device overview**

- (A) Bore holes
- (B) Electronic unit
- (C) Battery compartment
- (D) Infrared sensor
- (E) Cap
- (F) System button (pairing button and LED)

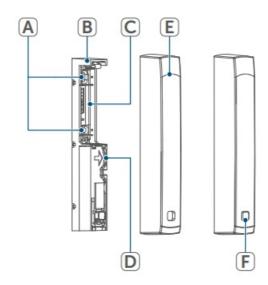


Figure 1

## **General system information**

This device is part of the Homematic IP Smart Home system and communicates via the Homematic IP wireless protocol. All devices in the Homematic IP system can be configured easily and individually with a smartphone using the Homematic IP app. Alternatively, you have the option of operating Homematic IP devices via the CCU3 or in conjunction with many 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 can be found at <a href="https://www.homematic-ip.com">www.homematic-ip.com</a>.

# Start-up

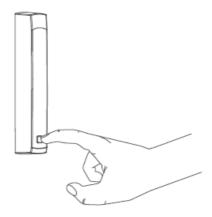
## **Pairing**

- Please read this entire section before starting the pairing procedure. First set up your
   Homematic
- Access Point using the Homematic IP app so that you can use other Homematic IP devices in the system. For further information, please refer to the Access Point operating manual.

To integrate the window and door contact into your system and enable it to communicate with other Homematic IP devices, you must add the device to your Homematic IP Access Point first.

Proceed as follows to add the window and door contact:

- Open the Homematic IP app on your smartphone.
- Select "Add device".
- Remove the insulation strip from the battery compartment (C) of the window and door contact.
- The pairing mode is active for 3 minutes.
- You can manually start the pairing mode for another 3 minutes by briefly pressing the system button (F).



Your device will automatically appear in the Homematic IP app.

- To confirm, enter the last four digits of the device number (SGTIN) in your app, or scan the QR code. The device number can be found on the sticker supplied in the package contents or attached to the device.
- Wait until pairing is complete.
- If pairing was successful, the LED (F) lights up green. The device is now ready for use.
- If the LED lights up red, please try again.
- Select the desired solution for your device.
- In the app, give the device a name and allocate it to a room.

#### Installation

Please read this entire section before starting the installation process.

#### Selecting a suitable installation location

Select a window or door for installation of the window and door contact.

• Fasten the window and door contact on the side of the window or door where the handle is located, in the upper third of the window/ door frame (for fastening details, see (see "6.2.2 Adhesive strip or screw installation" on page 18)).

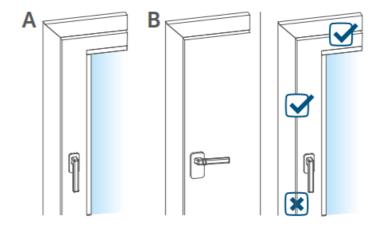


Figure 3

• The infrared sensor (D) must point in the direction of the window casement/door leaf.

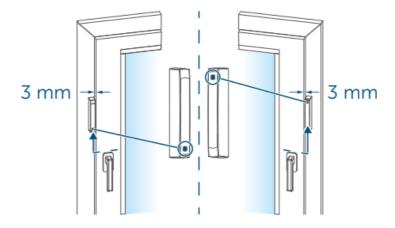


Figure 4

- The ideal spacing between the housing edge of the window and door contact and the window casement/door leaf is 3 mm (see figure).
- If the window/door handle is located on the right side, you must turn the window and door contact so that the infrared sensor (D) points in the direction of the window casement/door leaf on this side too (see figure).
- The device cannot be installed if the window/door frame is too small.
- For poorly reflecting surfaces (e.g. dark window frames), the supplied reflecting sticker
  must be fixed to the inner edge of the window casement/door leaf opposite the
  infrared sensor of the window and door contact.

## Adhesive strip or screw installation

You can use

- the supplied double-sided adhesive strip or
- countersunk head screws to install the window and door contact on the window/door frame.

#### Adhesive strip installation

Proceed as follows to install the window and door contact with the adhesive strip:

• Attach the double-sided adhesive strip to the rear of the electronic unit (B) and press the electronic unit onto the desired position of the window/door frame.

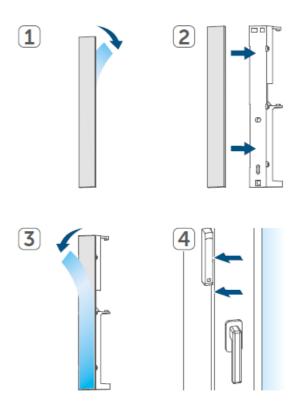


Figure 5

 Make sure that the installation surface is smooth, solid, undamaged, free of dust, grease, and solvents, and not too cold to ensure that the adhesive strip will adhere for a long time.

#### Screw installation

Using screws will damage the window and/or door. For those living in rented
accommodation, this could lead to a landlord making a claim for compensation or
holding back a tenant's deposit. Proceed as follows to install the win-dow and door
contact with the screws:

• Mark the bore holes (A) on the win-dow and door frame.

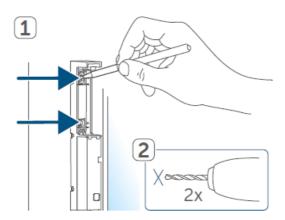


Figure 6

- If you are working with hard sur-faces, pre-drill the holes marked using a 1.5 mm drill (not necessary for soft surfaces).
- Place the electronic unit (B) on the desired installation location and screw both countersunk head screws into the bore holes (A).

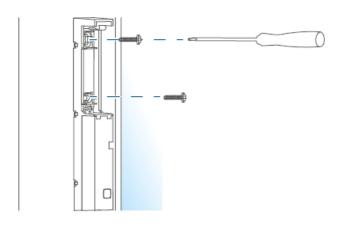


Figure 7

# Changing the batteries

If a flat battery is displayed in the app or on the device (see "8.4 Error codes and flashing sequences" on page 22), replace the used battery with a new LR03/micro/AAA battery. You must observe the correct battery polarity. Proceed as follows to replace the bat-tery of the window and door contact:

 Pull the cap (E) off the electronic unit (B). To do so, gently squeeze the cap from above and below with your index finger and thumb. You will find the battery compartment (C) underneath.

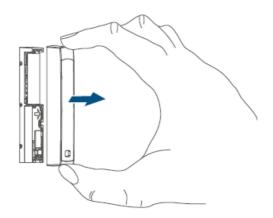


Figure 8

• Insert a new 1.5 V LR03/micro/AAA battery into the battery com-partment (C), making sure that you insert them the right way around.

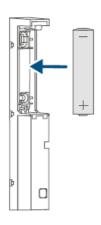


Figure 9

- After inserting the batteries, pay attention to the flashing sequences of the LED (F) (see "8.4 Error codes and flashing sequences" on page 22).
- Put the cap (E) back onto the elec-tronic unit (B).

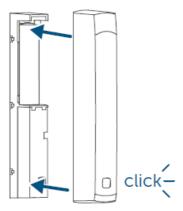


Figure 10

Once the battery has been inserted, the window and door contact will perform a self-test (approx. 2 seconds). Afterwards, initialisation is carried out. The LED test display will indicate that initialisation is complete by lighting up orange and green.

# **Troubleshooting**

#### Weak batteries

Provided that the voltage value permits it, the window and door contact will remain ready for operation even if the battery voltage is low. Depending on the particular load, it may be possible to send transmissions again repeatedly, once the batteries have been allowed a brief recovery period. If the voltage drops again while sending, this will be displayed in the Homematic IP app and on the device (see "8.4 Error codes and flashing sequences "on page 22). In this case, replace the flat battery with a new one (see "7 Changing the batteries" on page 20).

#### **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 reason for the failed transmission may be radio inter-ference (see "11 General information about radio operation" on page 23). This may be caused by the following:

- Receiver cannot be reached;
- The receiver is unable to execute the command (load failure, mechanical blockage, etc.); or
- The receiver is faulty.

#### **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% con-formity to this regulation. During normal operation, the duty cycle is not usually reached. However, repeated and radio-intensive pairing 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 three slow red flashes 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).

#### Error codes and flashing sequences

## **Restoring factory settings**

- The device's factory settings can be restored. If you do this, you will lose all your settings. Proceed as follows to restore the factory settings of the window and door contact:
- Pull the cap (E) off of the electronic unit (B) (see figure).
- Remove the used battery.
- Insert the new battery, making sure that it is the right way around, and press and hold the system button (F) for 4 seconds at the same time until the LED (F) quickly starts flashing orange.
- Release the system button.
- Press and hold the system button again for 4 seconds until the LED lights up green.
- Release the system button to finish restoring the factory settings.

The device will perform a restart.

# Maintenance and cleaning

The device does not require you to carry out any maintenance other than replacing the battery when necessary. Leave any main-tenance or repair to a specialist. Clean the device using a soft, clean, dry and lint-free cloth. You may dampen the cloth a little with lukewarm water to remove more stubborn marks. 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 transmission range within buildings can differ significantly from that available in open space. Besides the transmitting power and the reception characteristics of the receiver, environmental factors such as humidity in the vicinity play an important role, as do on-site structural/screening conditions. eQ-3 AG, Maiburger Strasse 29, 26789 Leer, Germany,

hereby declares that the radio equipment types Homematic IP HmIP SWDO-2 and HmIP SWDO-A are compliant with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at <a href="https://www.homematic-ip.com">www.homematic-ip.com</a>.

# **Disposal**

#### Instructions for disposal

• This symbol means that the device and the single-use or rechargeable batteries must not be disposed of with household waste, the residual waste bin or the yellow bin or yellow bag.

For the protection of health and the environment, you must take the prod-uct, all electronic parts included in the package contents, and the batteries to a municipal collection point for waste electrical and electronic equipment to ensure correct disposal of the same. Distributors of electrical and electronic equipment or batteries must also take back waste equipment or used batter-ies free of charge. By disposing of them separately, you are making a valuable contribution to the reuse, recycling and other methods of recovery of used devices and used batteries. You must separate any used single-use and rechargeable batteries found in used electrical and electronic devices from the used device if they are not enclosed by the used device before handing it over to a collection point, and dispose of them separately at the local collection points. Please also remember that you, the end user, are responsible for deleting personal data on any used electrical and electronic equipment before disposing of it.

# Information about conformity

- The CE mark is a free trademark that is intended exclusively for the authorities and does not imply any assurance or guarantee of properties.
- For technical support, please contact your retailer.

# **Technical specifications**

- Device short description:
  - HmIP SWDO-2, HmIP SWDO-A

- Supply voltage:
  - 1x 1.5 V LR03/micro/AAA
- Current consumption:
  - Max. 100 mA
- Battery life:
  - 2 years (typical)
- Protection rating:
  - 。 IP20
- Ambient temperature:
  - 5 to 35°C
- Dimensions (W x H x D):
  - o 102 x 15 x 20 mm
- Weight:
  - 30 g (incl. battery)
- Radio frequency band:
  - ∘ 868.0 868.6 MHz
  - ∘ 869.4 869.65 MHz
- Max. radio transmission power:
  - 10 dBm
- Receiver category:
  - 10 dBm
- Typical range in open space:
  - 。 300 m
- Duty cycle:
  - < 1% per h/< 10% per h</p>

Subject to modifications.

# **Product Usage Instructions**

## **Delivery Contents**

The package includes:

- 1x Sensor
- 1x Double-sided adhesive tape

- 2x Countersunk screws (2.2 x 13 mm)
- 1x 1.5V LR03/Micro/AAA Battery
- 1x User Manual

#### Installation and Setup

- 1. **Pairing:** Follow the instructions to pair the sensor with your system.
- 2. **Mounting:** Choose a suitable location for installation and proceed with either adhesive tape or screw mounting as per the manual.

#### **Battery Replacement**

To replace the battery, follow the steps outlined in the manual and ensure proper battery insertion.

## **Troubleshooting**

#### Low Battery:

If facing battery issues, refer to the troubleshooting section for guidance.

## **Duty Cycle:**

Check the duty cycle specifications to ensure optimal performance.

#### **Error Codes:**

Refer to the manual for error code meanings and solutions.

# **Frequently Asked Questions**

# Q: How do I reset the device to factory settings?

A: Detailed instructions for resetting to factory settings can be found in the manual under the section 'Restoring Factory Settings'.

# Q: What should I do if the sensor is not detecting motion?

A: Check the positioning of the sensor and ensure it is within the specified range. You can also refer to the troubleshooting section for further assistance.

# **Documents / Resources**



homematic IP HmIP-SWDO-2 Window and Door Contact [pdf] Instruction

Manual

HmIP-SWDO-2, HmIP-SWDO-A, HmIP-SWDO-2 Window and Door Contact, HmIP-SWDO-2, Window and Door Contact, Door Contact

#### References

- User Manual
- Homematic

ID

◆ Door Contact, HmIP-SWDO-2, HmIP-SWDO-2 Window and Door Contact, HmIP-SWDO-A, Homematic IP, Window and Door Contact

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