Door Lock Drive – pro

HmIP-DLP, HmIP-DLP-A, HmIP-DLP-AS, HmIP-DLP-WS

Installation instructions
and operating manual

homematic IP

Table of contents

1 Package contents

1× Door Lock Drive – pro
4× 1.5 V LR6/Mignon/AA
1× double-sided adhesive pad
1× door magnet
Operating manual

2 Information about this manual

Read this manual carefully before beginning operation with your Homematic IP device. Keep the manual for later consultation. If you hand the device over to other persons for use, please ask them to read this manual.

Symbols used


This indicates a hazard.


This section contains important additional information.

3 Hazard information


We accept no liability for damage caused by use for other than the intended purpose, incorrect handling or failure to observe the hazard warnings. In such cases, all warranty claims are void. We accept no liability for consequential damage.


Do not use the device if it has visible damage or a malfunction. If you have any doubts, have the device checked by a qualified expert.


For safety and licensing reasons (CE), unauthorised conversions to and/or modification of the device are not permitted.


The device is not a toy – do not allow children to play with it.


Plastic film, plastic bags, polystyrene parts, etc. can be dangerous for children. Keep the packaging material out of the reach of children and dispose of it immediately.


Ensure that the batteries/rechargeable batteriesare replace correctly. Only replace the batteries/rechargeable batteries with the same or an equivalent type. Do not dispose of the batteries/rechargeable batteries in a fire. Do not expose the batteries/rechargeable batteries to excessive temperatures. Do not short circuit the batteries/rechargeable batteries. Doing so will present a risk of explosion.


Leaking or damaged batteries/rechargeable batteries can cause chemical burns on contact with skin. Wear suitable protective gloves when handling or replacing leaking or damaged batteries/rechargeable batteries. Avoid contact with leaked liquids. In case of skin contact, rinse with plenty of water.


Do not open the device. You do not have to perform any maintenance on the device apart from any necessary battery/rechargeable battery changes. Repairs may only be carried out by a qualified specialist.


Do not expose the device to moisture, vibrations, constant solar or other heat radiation, excessive cold or mechanical loads. The device must only be operated indoors.

Clean the device using a soft and dry lint-free cloth. The cloth can be slightly moistened with lukewarm water to remove more stubborn marks. Do not use solvent-based cleaning agents for cleaning, as these can damage plastic parts and labelling.

4 General system information

This device is part of the Homematic IP smart home system and communicates via the Homematic IP radio protocol. All devices of the system can be configured comfortably and individually using the Homematic IP app. Operation requires the connection to a Homematic IP Access Point or control unit. Further information about the system and how to combine it with other Homematic IP devices can be found in the Homematic IP User guide.

All technical documents and updates are to be found at www.homematic-ip.com.

5 Function and device overview

The Homematic IP Door Lock Drive – prois used for the convenient, motor-driven locking, unlocking and opening of cylinder lock doors. When the door is locked or unlocked, the key inserted in the door lock or the door knob shaft of a door knob cylinder lock (accessories required) is turned by the door lock drive such that the locking and unlocking mechanism of the door moves in exactly the same way as normal.

The door lock drive is universal and can be used with all doors with standard door lock cylinders that have emergency and hazard functions and with door knob cylinder locks. The door can be locked and unlocked conveniently both from the inside and outside using the free Homematic IP app or via a linked Homematic IP device, such as a Homematic IP Remote Control. From the inside, the door lock drive can be operated using the control wheel for emergencies or via the system button directly on the device. The system button's function assignment can be configured individually.

Programming is carried out using the app, which also features an up-to-date status display. Furthermore, optimum access control and convenient, time-controlled locking are possible by setting up flexible weekly schedules and individual access profiles. The device is battery-powered. A mains power connection near the door is therefore not necessary.

The door leaf will not be damaged during installation. However, there are also additional mounting holes for screwing onto the interior door hardware / door leaf.

Device overview

A) System button (device LED)
B) Control wheel for emergency operation
C) Battery compartment
D) Key adapter
E) Mounting plate

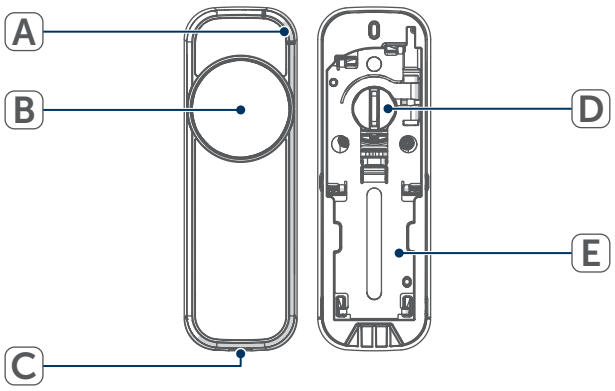

Figure 1

6 Start-up

6.1 Door and door lock cylinder requirements

Door requirements

The device can only be used on doors with locks and bolts that move easily and do not jam.

Doors with locks that can only be operated by pushing, pulling, lifting, lowering or twisting the door are not suitable for operation with the device!

Note that, especially with wooden doors, weather can cause the door to warp, which in turn can make the door unsuitable for locking and unlocking operations with the device at times. The device may not have enough power to properly operate the door lock bolt of a warped door.

Ensure that the door can be locked and unlocked smoothly and easily under all climatic conditions before using the device. This can be tested by locking and unlocking the door lock with the key and without using the door handle. Set the door hinges and/or the striking plate in the door frame so that locking and unlocking is smooth and easy with the key as described previously. The door seals must be sufficiently intact that the door opens itself slightly after complete unlocking, due to door seal expansion, to enable the door opening function.

Lock cylinder requirements

The device is mounted directly on the door lock cylinder; when the appropriate key is inserted, the actuator causes the cylinder to move. The door lock cylinder must therefore be sized so that it protrudes 0 to 9 mm beyond the interior door hardware on the inside of the door. For installation with a door knob cylinder *see Door knob adapter, page 11*

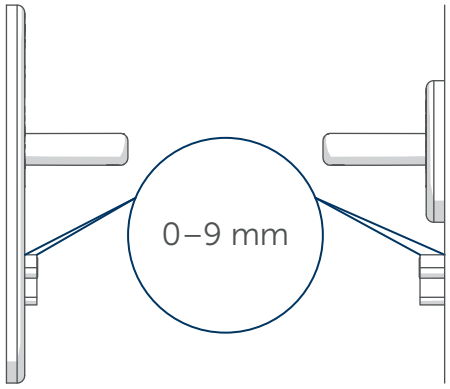

Figure 2

Determine the dimensions of the required door lock cylinder.

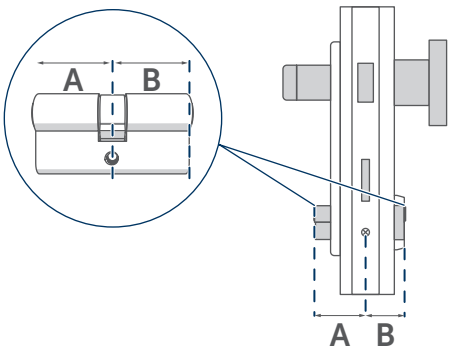

Figure 3

When selecting the door lock cylinder, the outer dimension (A) and inner dimension (B) of the cylinder are critical. Always measure from the outside of the door lock cylinder including door fittings to the fixing screw. Once you have determined your door lock cylinder's outer and inner dimensions, check whether the required protrusion of 0 to 9 mm is present for the inner dimension for installing the device. If not, add 0 to

–9 mm to the inner dimension to find the appropriate standard dimension.

Example:

You measure an outer dimension of 40 mm and an inner dimension of 40 mm. Therefore, the cylinder is a 40/40 cylinder. To use the device, you therefore need the next standard size: a 40/50 cylinder. The cylinder will then protrude inside by 10 mm.

If necessary, please replace your lock cylinder by a new one if it does not fulfil the installation requirements. Only use door lock cylinders with emergency and hazard functions where the key turns synchronously on the inside. This is required to ensure correct position transfer.

6.2 Installation

Read this section completely before starting installation.

You can open the installation wizard at any time using the Homematic IP app.

Please note that the function “open” has to be carried out after the initial start-up to ensure that the device can allocate its current position.

Proceed as follows to install the device:

- Shorten the key so that it has a minimum protrusion of 5 mm (measured from the door lock cylinder) and a maximum protrusion of 14 mm (measured from the surface surrounding the door lock cylinder).

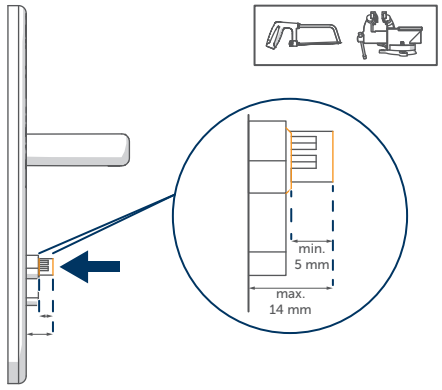

Figure 4

Installation with adhesive strips

This installation type is suitable for a cylinder projection of 0 to 9 mm.

- Stick the adhesive glue pad to the door.

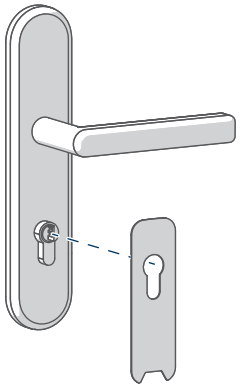

Figure 5

- Stick the mounting plate to the adhesive glue pad.

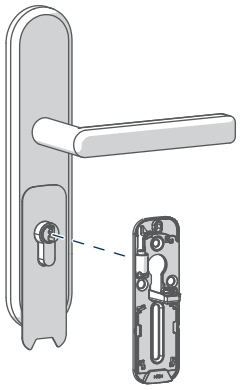

Figure 6

- Place the device on the mounting plate.

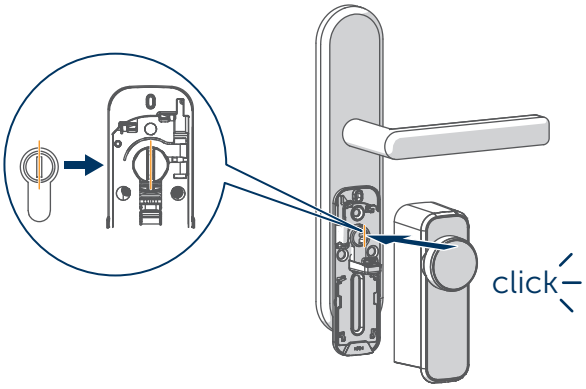

Figure 7

Installation with screws: oval rosette or long escutcheon

This installation type is suitable for a cylinder projection of 0 to 9 mm.

- Remove the oval rosette or long escutcheon from the door.
  – For long escutcheon only: Mount a suitable half set (door handle).
- Place the mounting plate on the door.

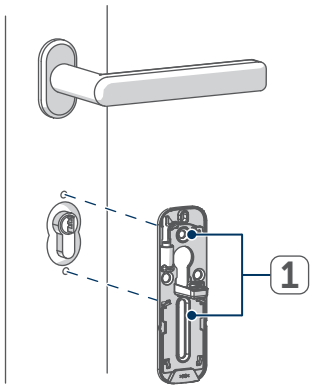

Figure 8

1 Screw holes for an oval rosette or a long escutcheon

- Screw the screws into the appropriate holes to mount the mounting plate on the door.
- Place the device on the mounting plate.

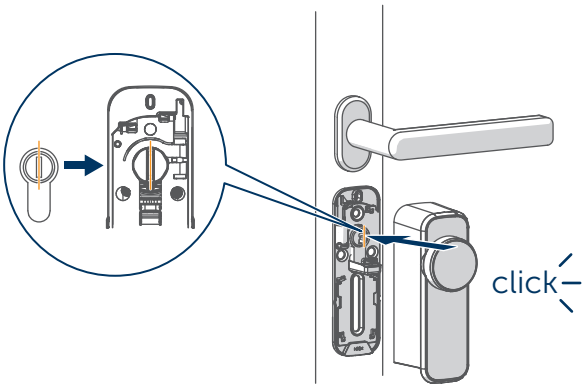

Figure 9

Installation with screws: round rosette

This installation type is suitable for a cylinder projection of 0 to 9 mm.

- Remove the round rosette from the door.
- Place the round rosette adapter (HmIP-ADA-DLP-R, HmIP-ADA-DLP-RA) on the door.
- Mount the adapter using screws from the dismantled round rosette.

- Align the adapter so that the device can be mounted straight.

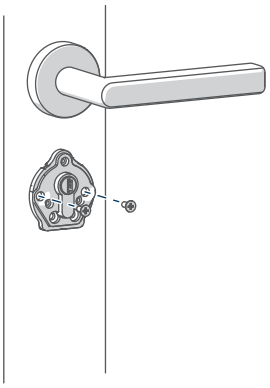

Figure 10

- Mount the adapter plate on the round rosette adapter.

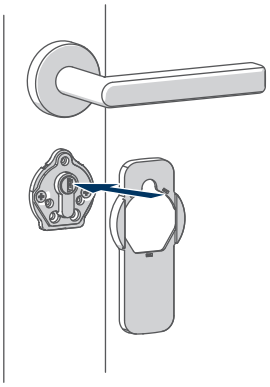

Figure 11

- Mount the mounting plate with the supplied screws on the round rosette adapter.

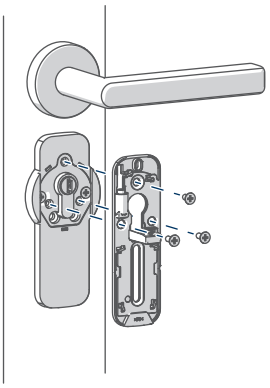

Figure 12

- Place the device on the mounting plate.

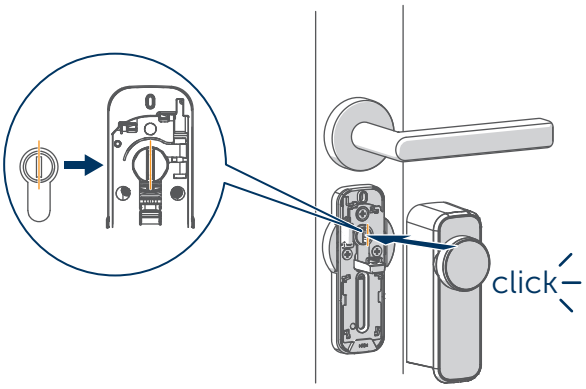

Figure 13

Installation with clamps

This installation type is suitable for a cylinder projection of 3 to 9 mm.

- Place the mounting plate on the door.
- Clamp the mounting plate to the door lock cylinder using the Allen key.

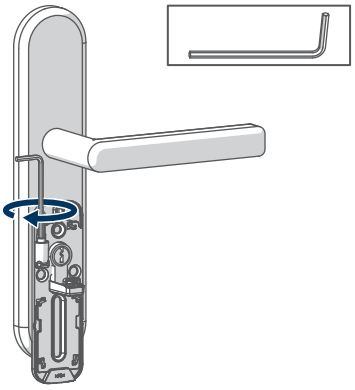

Figure 14: Tighten screws finger-tight

- Place the device on the mounting plate.

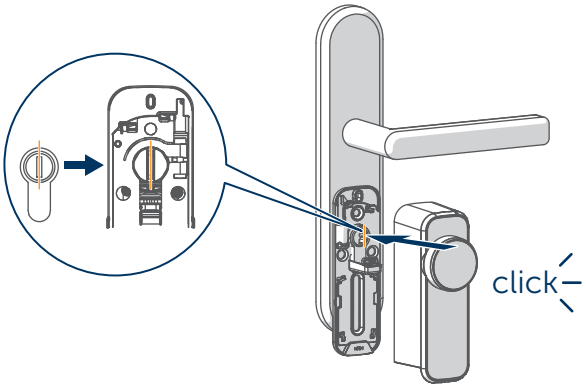

Figure 15

Installing the battery compartment (using the long escutcheon as an example)

- Insert the battery / batteries (4× 1,5 V LR6/Mignon/AA, 4× 1,2 V HR6/Mignon/AA) with the correct polarity according to the markings.
- Insert the battery compartment.

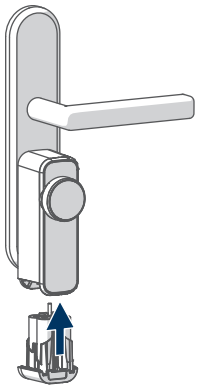

Figure 16

- Screw down the battery compartment with the hexagon socket key.

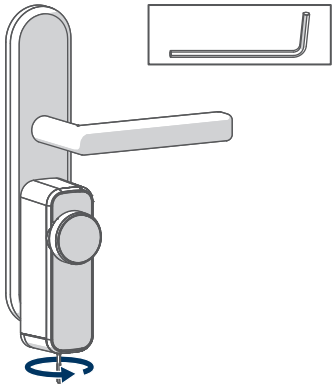

Figure 17

6.3 Installing the door magnet

The door magnet is used to detect the door status (open / closed). This enables automatic locking after the door closes.

Proceed as follows to install the door magnet:

- Check whether the door lock is on the left or right
- Fit the door magnet so that its notch is horizontally aligned with the lower edge of the door lock drive. Ensure that the notch is pointing into the room.

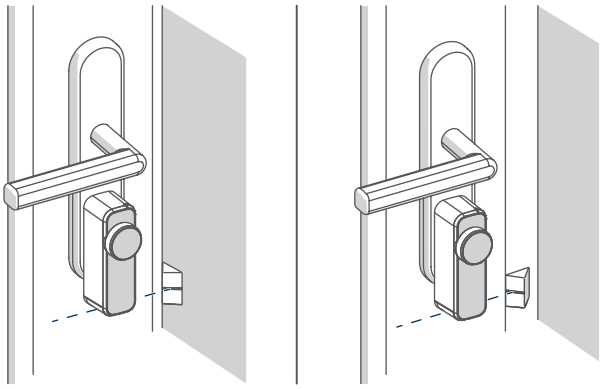

Figure 18

6.4 Door knob adapter

For a door equipped with a door knob cylinder (key on the outside, rotary knob on the inside) you can use an adapter (accessories: see below for part numbers) for common door knob cylinders instead of a key.

Part no.	Door knob cylinder
162765A1	Abus, Cisa, Bricard, Axa, Iseo
162775A1	BKS
162778A1	EVVA, CES
162783A1	DormaKaba
162786A1	Winkhaus, DOM
162789A1	Keso

- Fit the door knob adapter on the cylinder's knob shaft (observe the enclosed door knob adapter manual).
- Install the door lock drive *see Installation, page 7*.

6.5 Pairing with a Central Control Unit

Read this entire section before starting the pairing procedure.

Set up your Homematic IP control unit via the Homematic IP app so that you can use Homematic IP devices in the system. Detailed information on this is to be found in the operating manual for the control unit.

Proceed as follows to pair the device with your control unit:

- Open the Homematic IP app.
- Tap on **...More** in the homescreen.
- Tap on **Pair device**.
- The pairing mode is active for 3 minutes.

You can manually start the pairing mode for another 3 minutes by pressing the system button shortly.

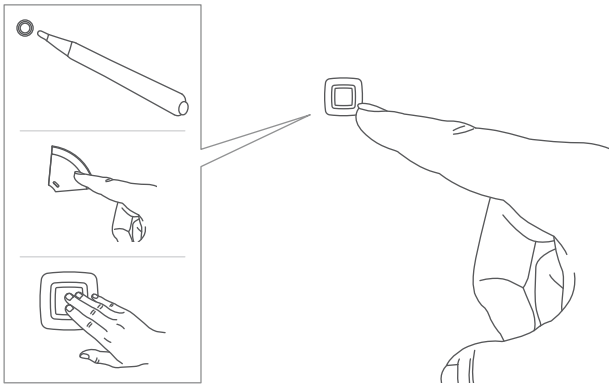

Figure 19

The type of system button depends on your device. Further information is to be found in the device overview.

- The device appears automatically in the Homematic IP App.
- 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 or attached to the device.
- Wait until pairing is completed.
- If pairing was successful, the device LED lights up green.
- The device is now ready for use.

If the device LED lights up red to, please try again *Flash codes, page 15*.

- Then follow the instructions in the Homematic IP App.

7 Operation

After set-up, simple operations are available directly on the device.

- **System button**: Briefly pressing the system button locks or unlocks the device in toggle mode.

Emergency operation

There are two methods available for manual unlocking / locking:

- **Control wheel**: In the idle state, the drive is disengaged (i.e. the gear is in freewheel). By turning the control wheel on the device, the lock can be locked and unlocked, and the door can also be opened. The device must be in the idle state (motor not moving).
- **Keys**: The lock can be locked, unlocked or opened also from outside if a door lock cylinder with emergency and hazard function is used. The device must be in the idle state (motor not moving) in this case.

If you have paired the device with a Homematic IP control unit, additional configurations are available in the device settings. Make the corresponding adjustments directly in the Homematic IP app:

- **Operating lock**: If the operating lock is activated, the device can no longer be operated using the buttons. Manual operation using the hand wheel remains possible.
  – Activate
  – Deactivate
  – With time profile
- **Message delay**: Configure the message delay.
  – 0 s
  – ...
  – 60 s
- **Locking and unlocking times**: You can set times for automatic device locking or unlocking.
- **Auto relock and whisper mode**: Specify whether and when the door lock drive should lock automatically or slow down so that it is particularly quiet.

  Lock when the door closes
  – On
  – Off

  Auto relock after timeout active
  – On: 1–30 minutes
  – Off

  Whisper mode
  – On
  – Off

  Whisper mode only during time-controlled or auto relock operations
  – On
  – Off

  Configure the weekly programme for auto relock and whisper mode.

- **Secure locking**: Assign a window / door contact to the same room to receive notifications if the device locks when the door is open.
- **Door status sensor**: Specify whether the internal sensor should be used to detect open or closed doors. If you would like to use the internal door status sensor, calibration is necessary in the next step.
  – Door opens inwards
  – Door opens outwards
- **Closing direction**: Select which side the door lock is on when viewing the door from inside.
- **Exterior door handle**: Select the handle that is attached to the outside of your door. With the option "Door knob", the door will be fully unlocked when it is opened and the lock latch is retracted so that the door opens. With the option "Door handle", the door will only be unlocked – the lock latch will not be retracted.
- **Neutral position**: Insert the key into the door lock cylinder. Select the position in which the key can be inserted or removed when the cylinder is not locked.
  – Vertical
  – Horizontal
- **Turns**: Select the number of turns that are necessary to completely lock the door.
  – 1 – 3
- **Holding time when opening**: Select how long the lock latch should remain retracted when opening.
  – Standard (open only)
  – Long (3 s)
  – Extra long (5 s)
- **Internal device button**: Specify how the button on the device should react to short and long presses.

  Press button and release
  – Locking and unlocking
  – Lock
  – Unlock
  – Open
  – No action

  Press button and hold down
  – Locking and unlocking
  – Lock
  – Unlock
  – Open
  – No action
- **Notification when the door is open**: Activate this function to be notified if your door is open for too long.
- **Position and vibration sensor**: Specify whether you are to be notified in the event of a change in position or a shock. The alarm will be triggered when alarm mode is active.

  Position detection
  – 10–45°

  Vibration detection
  – 1–100%
- **Action when unlocking**: Specify which alarm action should execute.
  – No action
  – Switch to deactivated: When the door is unlocked, the alarm mode is deactivated by the door lock sensor.
  – Trigger alarm: When the door is unlocked and alarm mode is activated, an alarm is triggered by the door lock sensor.

- **Angle range of end position locked**: Configure the angle range of the key's mechanical end position starting from a "locked" neutral position towards the close position for detecting statuses.
- **Angle range of end position unlocked**: Configure the angle range of the key's mechanical end position here starting from an "unlocked" neutral position towards the open position for detecting statuses.
- **Acoustic feedback**: Activate or deactivate acoustic feedback after each unlocking / locking. The acoustic signal for low battery voltage remains activated.

8 Troubleshooting

8.1 Command not confirmed

If at least one receiver does not confirm a command, the LED lights up red at the end of the failed transmission. The reason for the failed transmission may be radio interference *see General information about wireless operation, page 16*. This may be caused by the following:

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

8.2 Duty cycle

The duty cycle is a legally prescribed limitation 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 used by us, 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 expires. Homematic IP devices are developed and produced to ensure 100% conformity with 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 LED, and may manifest itself in the device temporarily not working. The device will start working again after a short period (max. 1 hour).

8.3 Flash codes

Flash code	Meaning	Solution
1× orange and 1× green light (after inserting the batteries)	Test display	You can continue once the test display has stopped.
Short orange flashes (every 10 s)	Pairing mode active	Enter the last four digits of the device number (SGTIN) in your app, or scan the QR code.
Short orange flashes	Transmission of configuration data	Wait until the transmission is completed.
Brief orange flashing (followed by a steady green light)	Transmission confirmed	You can continue operation.
Brief orange flashing (followed by a steady red light)	Transmission failed or duty cycle limit reached	Please try again *see Command not confirmed, page 14*or *see Duty cycle, page 14*.
6× long red flashes	Error detected Possible faults / warnings: • Sabotage detected • Position / vibration sensor triggered	Please see the display on your app or contact your retailer.
Alternating long and short orange flashing	Device software update (OTAU)	Wait until the update is completed.

9 Restoring the factory settings

The factory settings of the device can be restored. If the device is paired with a contro unit, the configurations are automatically restored. If the device is not paired with a control unit, all the settings are lost.

Proceed as follows to restore the factory settings of the device:

- Press and hold the system button for 4 seconds Fig. 19
- The device LED starts flashing orange fast.
- Release the system button .
- Press and hold themenu buttonfor 4 seconds.
- The device LED lights up green.
- Release the system button to finish restoring the factory settings.

The device performs a restart.

If the device LED lights up red to, please try again *Flash codes, page 15*.

10 Maintenance and cleaning

The device is maintenance-free for you. Leave any maintenance or repair to a specialist.

Clean the device using a soft, clean, dry and lint-free cloth. The cloth can be slightly dampened with lukewarm water to remove more stubborn marks. Do not use any detergents containing solvents for cleaning purposes. They could corrode the plastic housing and label.

11 General information about wireless 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 inside buildings can differ greatly from that in open air. 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.

Declaration of conformity

eQ-3 AG, Maiburger Str. 29, 26789 Leer, Germany, hereby declares that the wireless system type Homematic IP HmIP-DLP, HmIP-DLP-A, HmIP-DLP-AS, HmIP-DLP-WS complies with Directive 2014/53/EU. The full text of the EU declaration of conformity can be found at: www.homematic-ip.com

12 Disposal

This symbol means that the device and the single-use or rechargeable batteries must not be disposed of as household waste or general waste, or in a yellow bin or yellow bag. For the protection of health and the environment, you must take the product, 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 batteries 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 waste electrical and electronic equipment before disposing of it.

CE The CE mark is a free trademark that is intended exclusively for the authorities and does not imply any assurance or guarantee of properties.

If you have any technical questions about the appliance, please contact your specialist dealer.

13 Technical specifications

Device short name	HmIP-DLP, HmIP-DLP-A, HmIP-DLP-AS, HmIP-DLP-WS
Supply voltage	4× 1.5 V LR6/Mignon/AA, 4× 1.2 V HR6/Mignon/AA
Battery life	1.5 years (typical)
Construction of the regulation and control device: (RS)	Installed electronic RS
Degree of pollution	2
Method of operation	Type 1
Degree of protection	IP20
Ambient temperature	-10 to +55°C
Dimensions (W × H × D)	43 × 131 × 55 mm
Weight (incl. batteries)	320 g
Software class:	Class A
Radio frequency band	868.0–868.6 MHz / 869.4–869.65 MHz
Duty cycle	< 1% per h /< 10% per h
Receiver category	SRD category 2
Maximum radiated power	10 dBm

Subject to modifications.

Free download of the Homematic IP app!

Download on the App Store

GET IT ON Google Play

Bevollmächtigter des Herstellers:
Manufacturer's authorised representative:

eQ-3

eQ-3 AG
Maiburger Straße 29
26789 Leer / GERMANY
www.eQ-3.de