

Instruction manual
Electric glass door lock
Touch-to-open



Smart Entrance

BY POLLMEIER

OPERATING INSTRUCTIONS

Touch to open electric glass door lock

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1 General

Please read through these operating instructions carefully before fitting or using the product. They contain important instructions on safety which help to avoid risks, errors and malfunctions. Keep the instructions in a safe place.

The manufacturer's warranty is voided in any case of change, extension and modification (mechanical or electrical) of the electric glass door lock, opening the casing, or damage caused by use of force.

The scope of supply includes:

- the electric glass door lock
- four AA Mignon alkaline batteries (1.5 V)
- three M5 x 16 countersunk screws with 3 mm hexagon socket
- a design trim panel for the inside of the hinge
- a design trim panel for the outside of the hinge

- two office hinges with hinge pins
- two cover caps with clamping plates
- two frame parts
- four M6 x 20 countersunk screws with 4 mm hexagon socket

1.1 Declaration of Performance

Declaration of Performance as per Annex III of (EU) Ordinance no. 305/2011 (Building Product Ordinance)

1. Type: Electric glass door lock
Touch to open - EGS1
2. Intended use: Motorised actuation of the latch in single-leaf, interior glass doors
3. Manufacturer: Baugruppentechnik Pollmeier GmbH, Hövelriege Str. 26, D-33161 Hövelhof
4. Authorised representative: . / .
5. System for evaluation and verification of performance: 4
6. Harmonised standard: EN 14846:2008
7. Declared performance:

Feature	Performance
Use category:	N/A*
Continuous operability and load on latch	S
Door mass and closing force	N/A*
Suitability for use in fire protection/smoke protection doors	0
Security	None
Corrosion resistance, temperature, humidity	0
Protection and drill open resistance	0
Protection of electrical function	0
Protection against electrical manipulation	1

* Deviates from the standard as a glass door lock

8. Legally binding declaration

The performance of the above mentioned product as per no. 1 complies with the declared performance as per no. 7. The manufacturer stated above is exclusively responsible for creating this declaration in compliance with (EU) Ordinance no. 305/2011.

Hövelhof, 1 June 2017



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1.2 EC Declaration of Conformity

EC Declaration of Conformity BGP 09-2017 pursuant to the EC Machinery Directive 2006/42/EC

Baugruppentechnik Pollmeier GmbH, Hövelrieger Str. 26, 33161 Hövelhof, Germany, hereby declares in sole responsibility that the following machine

Designation:	Touch to open electric
Type:	glass door lock - EGS1
Serial number:	See product label

to which this Declaration relates, complies with all applicable provisions of EC Directive 2006/42/EC – Machinery Directive.

The machine also complies with the provisions of EU Directive 2004/108/EC - Electromagnetic Compatibility - and adheres to the protection objectives of the Low Voltage Directive 2006/95/EC as per Annex I, no. 1.5.1 of Machinery Directive 2006/42/EC.

The technical documentation exists in full; the operating instructions which belong to the machine exist in the original version.

The authorised representative for compiling the technical documentation is:
Development Department, Baugruppentechnik Pollmeier GmbH, Hövelrieger Strasse 26, 33161 Hövelhof, Germany

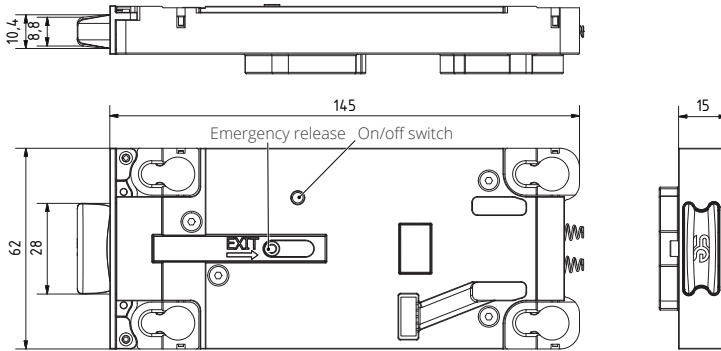
Hövelhof, 1 June 2017



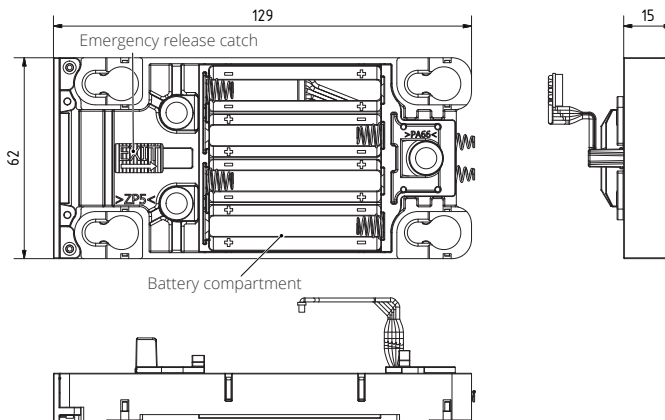
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2.1 Technical Data

Electric glass door lock
Outside of the hinge



Electric glass door lock
Inside of the hinge



Outside of the hinge door lock dimensions: Width: 145mm / depth: 15mm / height: 62mm
 Inside of the hinge door lock dimensions: Width: 129mm / depth: 15mm / height: 62mm
 Weight: 500g incl. batteries / 600g without batteries
 Protection class: IP 20
 Power supply: 4 x AA Mignon alkaline batteries (1.5V)

2.3 Function

When the glass door is closed, the latch is pulled out of the lock by the magnetic strike plate and snaps into place in the strike plate.

When the contact surfaces are actuated, the locking part (latch) on the lock is electrically retracted. The motor overcomes the magnetic attraction force and pulls the latch out of the strike plate. The door can be open by pushing or pulling.

3 Security

The A-rated emitted sound pressure level is less than or equal to 70 dB(A). There is no risk from noise.

The maximum effective value of the weighted acceleration to which the entire body is exposed is less than 0.5 m/s². The overall vibration value to which the upper body limbs are exposed is less than 2.5 m/s². Thus, there is no risk due to vibration.

3.1 Intended Use

- The lock is designed for occasional use in private interior rooms by persons who handle the technology carefully.
- The lock is exclusively designed for installation in single-leaf glass room doors in conjunction with a wooden or aluminium frame.
- The door weight must not exceed 60 kg.
- Only use design trim panels licensed by Baugruppenteknik Pollmeier GmbH in conjunction with the electric glass door lock as the function cannot otherwise be guaranteed (see section 7).
- The glass door lock may only be used with 8mm ESG panels.
- Only use the lock in undamaged condition without defects. Exclusively use the supplied batteries, or equivalent (type AA 1.5 V Mignon alkaline batteries).

3.2 Unintended Use

Any use of the electric glass door lock other than the intended use will void your warranty. Baugruppenteknik Pollmeier GmbH accepts no liability for any damage caused in this way. For this reason, you must comply with the following directions:



Caution! Use of the electric glass door lock in doors that are located on an identified escape and emergency route or in smoke or fire protection doors is not intended and not permitted!



Caution! Do not use the electric glass door lock for frequently used doors in public buildings or rooms to which access needs to be secure.



Caution! Do not insert objects into the lock's openings! Do not force open the lock case!



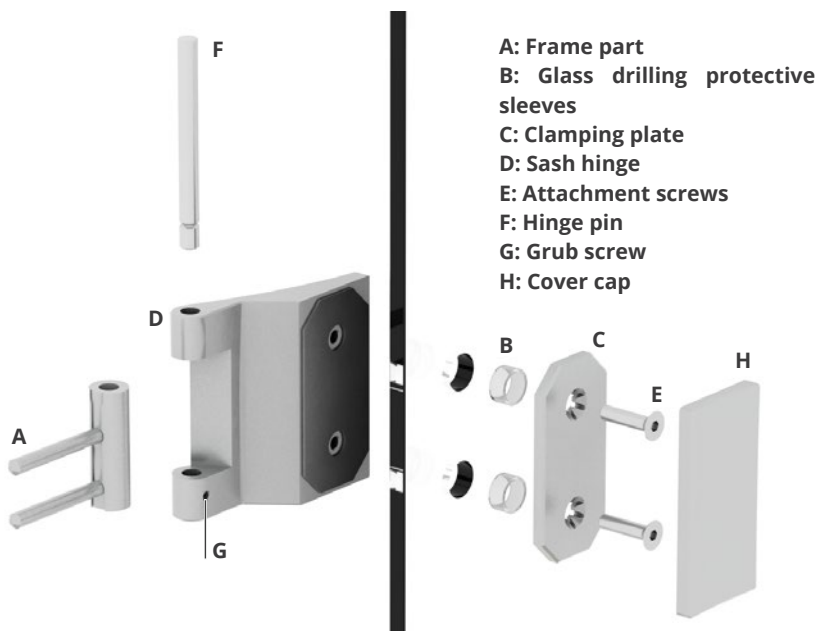
Caution! Do not use the lock in saunas or steam rooms!



Caution! One-sided handle installation is forbidden. Always fit a handle on each side of the door!

4.1 Installation of the Door Hinges

Before fitting, check all parts for completeness and signs of damage. If you see any damage that could impair the lock's functionality, do not fit the lock under any circumstances! Fitting must be performed by a skilled person.



1. Insert the frame parts "A" into the intended bore holes in the frame. A uniform distance of 4 mm should be set between the hinge and frame part. Fix the frame parts in the door frame hinge using the screws.

2. Insert the glass drilling protective sleeves "B" into the glass drilling holes of the door leaf. Position clamping plate "C" and sash hinge "D" on each side above the glass drilling protective sleeves on the door leaf. The counterbores on the clamping plate must face outwardly. Consider whether the door is mounted DIN R or DIN L. Insert the attachment screws "E" through the clamping plate and door leaf and screw to the sash hinge. Tighten the screws with a torque of 14 Nm once you have aligned the sash hinge at a right angle to the glass edge.

3. Lift the door leaf with sash hinges onto the frame parts mounted on the frame and fix in place using the hinge pins "F". The groove on the hinge pin must be completely inserted at

the height of the grub screw in the sash hinge. Use the grub screws to secure the hinge pins against sliding out.

4. Remove the protective films from the adhesive strips on the inside of the cover caps "H" and stick the cover caps to the middle of the clamping plates.

4.2 Installation and Commissioning of the Glass Lock

Before fitting, check all parts for completeness and signs of damage. If you see any damage that could impair the lock's functionality, do not fit the lock under any circumstances!

Fitting must be performed by a skilled person. If a component does not fit in its specified position, you will need to modify the door or frame receptacle. No not apply force when fitting the lock!

Before installing the electric lock, check the door to make sure that it is correctly hung and not warped.



Caution! The lock must be in as-delivered condition in order to install it (latch blocked). If in doubt, detain the latch with an adhesive strip to avoid locking yourself in!



Caution! If the lock is no longer in as-delivered condition, switch it off. Do not restart until the handle is fitted on the lock to avoid inadvertent locking in.

1. Insert the glass lock on the inside of the hinge with the two circular, rubber-coated moulds into the two lock bore holes of the whole glass door. The latch must point in the direction of the glass edge (see Fig. 1).

2. Now guide the cable harness of the battery compartment from the inside of the hinge through the lock. To do so, use the rectangular opening of the lock on the rear lock bore hole with the adjoining cable channel. The blend side must point in the direction of the glass edge (see Fig. 2).

3. The battery compartment and lock can now be loosely screwed with the M5x16 countersunk screws included in the scope of supply as shown in Figure 3. Tighten the screws with a torque of 0.5-1.0 Nm once you have aligned the lock with the glass edge..



Fig. 1



Fig. 2

4. Take the battery compartment connector and insert it upright into the socket on the electronic glass lock. The connector and socket are coded, allowing only one opportunity to insert it (see Fig. 4). If the connector is not easy to insert, do not use force but rotate it once on its axis and try again.

5. Make sure that the cable harness pass completely through the cable channel and opening and fix it in place using an adhesive strip.

6. Insert four new 1.5 V AA Mignon alkaline batteries into the compartment. Pay attention to correct polarity (see Fig. 5).

7. Push the emergency release catch next to the battery compartment in the direction of the glass edge up to the limit stop, as shown in Fig. 5.

8. Release the latch, which you may have secured with adhesive tape, and then press the on/off switch (see Fig. 6). You will hear a long acoustic signal.

9. Put the design trim panel of the lock case in place on the front of the lock. If the screw heads on the back of the housing in the keyhole-shaped openings in the lock, push the housing in the direction of the glass edge. It will noticeably engage!

Do exactly the same thing on the inside of the hinge for the design trim panel of the battery compartment.

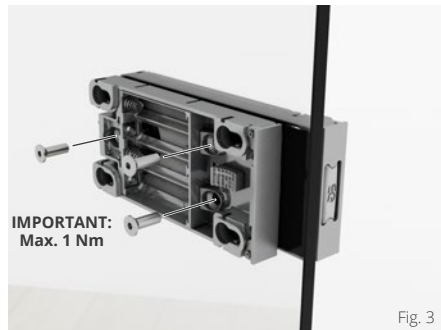


Fig. 3



Fig. 4

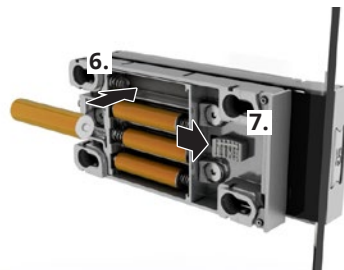


Fig. 5

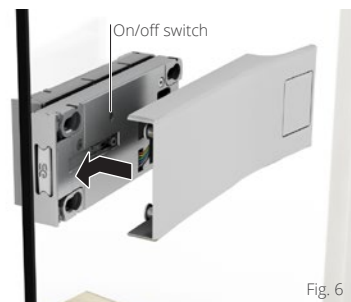


Fig. 6

5 Operation and Maintenance

An acoustic signal will indicate any need to intervene during operation or installation. The following overviews show the various audible signals and their meanings.

All audible signals during installation

Type of audible signal	Operating state	Request
One long beep	Device switching on	–
Beep sequence: short, short, long	Device switching off	–

All audible signals during operation

Type of audible signal	Operating state	Request
Double beep/5 min.	Batteries exhausted	Replace batteries

Except for the batteries, all the components of the electric mortise lock are manufactured to be wear and maintenance free for the lock's service life. However, this assumes careful use. Avoid the use of force which could cause damage to the lock!

Do not attempt to open the casing; there are no user-serviceable parts on the inside!

5.1 Troubleshooting

If the lock unexpectedly fails to work, first check the following points:

Malfunction	Possible cause	Possible solution
Lock beeps twice periodically approx. every 5 min. and the latch remains in the lock	Batteries exhausted	Replace batteries (see 5.4)
Noise on opening/closing	Foreign body on latch or in strike plate	Clean, carefully remove objects (see 5.3)
	Lock not correctly seated on the door leaf	Reposition & fasten lock
Lock fails to open or close correctly	Latch bent or broken due to use of force	Replace lock
Lock fails to close	Batteries exhausted	Replace batteries (see 5.4)
	Batteries inserted incorrectly (wrong polarity)	Insert batteries as specified
	Lock not switched on	Press on/off switch to activate the lock. (see 4.2)
	Emergency release catch in wrong position	Push emergency release up to the limit stop in the direction of the glass edge und unlock again
	Lock not designed for glass thickness	Only use panels with 8 mm glass thickness
	Electronics problem in lock/overload/motor defective	Replace lock
Lock slow to open	The latch is not centred with respect to the backlining.	Press in the door seals
		Adjust the door hinges
Lock not opening	Internal, transient malfunction	Remove design trim panel, unlock the latch mechanically using the emergency release catch, press the on/off switch (this reboots the lock), install the design trim panel
The design trim panels cannot be connected!	The round head screws have been screwed in too far	Loosen the four round head screws by a quarter rotation on the inside of the design trim panels in order to reduce the contact pressure!

If it proves impossible to resolve the problem, please remove the lock and contact Baugruppenteknik Pollmeier GmbH. Expert staff is available to help you.

5.2 Emergency Release

Emergency door release is not necessary in normal operation and with proper use. Safety mechanisms have been installed in the lock that provide for automatic unlocking if normal operation is compromised. You always have the following options to unlock the door to guarantee that the door can always be opened.



Fig. 7



Fig. 8

Emergency release on the outside of the hinge

Push the design trim panel (lock cover) in the direction of the door leaf and full them forwards over the lock case. The extended latch can now be pushed into the lock using the catch (see Fig. 7). Only release the latch once you have opened the door. Now start the lock again and fit the design trim panel as described under section 4.1, step 9.

Emergency release on the inside of the hinge

Push the design trim panel (battery compartment cover) in the direction of the door leaf and full them forwards over the battery compartment. The extended latch can now be pushed into the lock for the emergency release using the catch (see Fig. 8). Only release the catch once you have opened the door. Now start the lock again and push the emergency release catch back completely in the direction of the glass edge. Fit the design trim panel as described under section 4.1, step 9.

5.3 Cleaning

Due to protected installation and the wear-free design, cleaning is only rarely required. To clean, wipe the lock and the strike plate with a dry cloth. Do not use chemicals, cleaning agents, solvents or objects for mechanical cleaning!

Carefully remove any metal chips on the latch or strike plate with a soft cloth or a brush.

5.4 Replacing the Batteries

When the batteries are exhausted, the lock outputs an audible signal, retracts the latch and changes to lock mode to avoid blocking the door. This state is indicated by a double peep, which the lock emits periodically at an interval of 5 min. Follow these steps to replace the batteries:



Caution! To replace the batteries, the lock must be switched off or in lock mode (latch retracted) in case of weak batteries. If in doubt, detain the latch with an adhesive strip to avoid locking yourself in!



Caution! Never insert an empty battery compartment into the lock. On closing the door, the lock would immediately engage; in this case, opening is only possible via emergency release.

1. Start by opening the door. Push both design trim panels in the direction of the door leaf and full them forwards over the battery compartment and the lock case (see Fig. 9).

2. Dispose of the old batteries responsibly and insert four new 1.5 V AA Mignon alkaline batteries into the compartment. Pay attention to correct polarity (see Fig. 10)

3. Press the on/off switch (see Fig. 11). A single acoustic signal indicates that the lock is switched on again.

4. Then put the design trim panel in place on

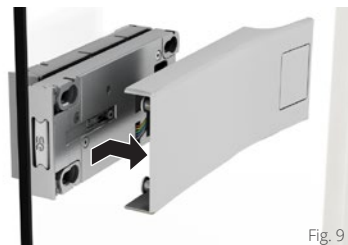


Fig. 9



Fig. 10

OPERATING INSTRUCTIONS

Touch to open electric glass door lock

the front of the lock. If the screw heads on the back of the trim panel engage in the keyhole-shaped openings in the lock, push the design trim panel in the direction of the glass edge and it will noticeably engage (see Fig. 12).

Do exactly the same thing on the inside of the hinge for the design trim panel of the battery compartment.



Fig. 11



Fig. 12

6 Removal and Disposal

To remove the door, remove covers, pull the battery compartment connector out of the lock and remove the screws from the battery compartment. You can now remove the parts from the door. Then remove the batteries as described in section 4.2.



Caution! Never store the lock for an extended period of time with the batteries fitted. Leaking batteries could damage the electronics!



Do not dispose of the batteries or lock as domestic waste. Instead hand them in at an appropriate collection point (retailer, recycling depot or mobile recycling vehicle).

7 Approved Handles

To keep the electric mortise lock in perfect working condition at all times, only SE-certified handles are approved for the lock. When purchasing your handle, please watch out for the SE mark, which ensures compatibility with the Smart Entrance technology.



Smart Entrance

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