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Smart Entrance

BY POLLMEIER

SMART ENTRANCE TOUCH TO OPEN

TECHNOLOGY BY POLLMEIER



Smart Entrance – Touch to open

Technology by Pollmeier

Smart Entrance – Touch to open changes the way you enter a room.

„Touch to open“ means: Simply touching the Smart Entrance contact handle activates the Smart Entrance contact lock and the door opens. Smart Entrance by Pollmeier represents a visually, haptically and functionally impressive solutions for opening doors for architects who prefer a trimmed-down design.

SE contact handles are characterised by their clear geometric shapes. They do not use moving or mechanical parts and are positioned flush with the door leaf. The contact handle and contact lock form one unit: the initial contact. The contact lock is battery operated and is equipped with a magnetic latch. It is activated by touching the contact handle - both for opening and closing.

Smart Entrance – Touch to open is available as a surface-mounted handle for butt-joint and rebated wooden doors, as well as for recessed integration in butt-joint wooden doors.

Components



- | | |
|---|--|
| 01 Planum SE handle (surface-mounted) | 05 Compartment incl. 4 x AAA micro alkaline batteries (1.5 V) |
| 02 Square rod with spring contact | 06 Plug connection |
| 03 Installation plate | 07 SE handle (recessed) |
| 04 Smart Entrance lock in default dimensions | 08 SE strike plate |

Characteristics

Features

Smart Entrance – Touch to open combines high-quality mechanics with modern electronics. „Touch to open“ means: Simply touching the contact handle activates the contact lock and the door opens. The lock requires exactly the same installation space as standard locks – can be used in rebated and butt-joint doors.

- Rotatable magnetic latch backfilling for adjusting the contact pressure
- Battery operated
- Lockable, with emergency release function

Advantages

- No need for the classic rotation movement of a door handle
- No key required
- Contact handle can be replaced with individual, licensed handles
- Minor installation work
- No need at all for a strike plate edge
- The latch cannot strike the frame
- No wear or maintenance and smooth-running, no additional lubrication required

Benefits

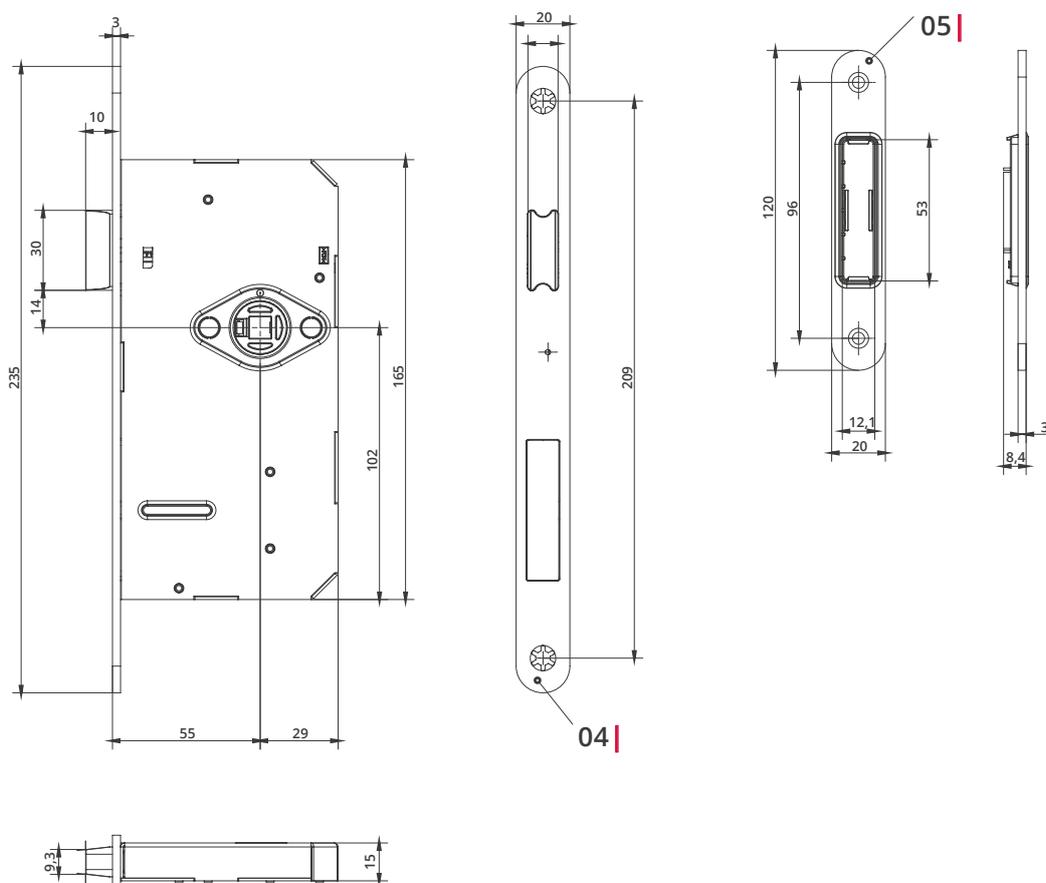
- Improved ease of use and modified haptics thanks to Touch to open
- Facilitates a completely new living space design
- A perfect combination of optics and function in the modern living environment
Thanks to a clear and reserved design

Details



- 01** | Insert the SE contact lock and fix it in place
- 02** | Insert square rod, fix installation plates in place,
place surface-mounted handles onto the installation plates
- 03** | Insert recessed handles and connect using connector

Installation dimensions



- 04** | SE contact lock for butt-joint doors
- 05** | Strike plate with backfilling for butt-joint doors

Smart Entrance – Touch to open

Handle design by Pollmeier

Surface-mounted contact handles



Planum

Vigo

Pallene

Venix

Dione

Recessed contact handles



Pan

Puck

Narvi

Biko

Mimas

Smart Entrance – Touch to open ...

is true innovation. Nothing has changed in the way people open doors since the Middle Ages – until now. Touch to open technology by Pollmeier now provides the option to open doors and pieces of furniture without all the paraphernalia as has been the case to date.

Smart Entrance – Touch to open ...

completes the final „revolution“ in the door industry, the concealed hinge, for the whole door. Everyone is talking about the flush, trimmed look. That's why the concealed hinge has gained ground in the high-end range in recent years. Touch to open technology now provides the option to transfer this idea to the whole door, particularly for the constantly visible area.

Smart Entrance – Touch to open

Handle design by Pollmeier

Smart Entrance – Touch to open ...

gives door maximum value. Investments in hinges and floor-to-ceiling doors, in surfaces and decors, in handles and valuable interiors, are certainly worthwhile. But Touch to open technology with its clean handle design provides the maximum value – for the lowest price. The surface remains flawless for a long time because Smart Entrance contact handles are not grasped, but rather just touched.

Smart Entrance – Touch to open ...

gives doors a completely new look and makes a statement – a statement that stands for spirit of the time and for openness to new ideas and places great importance on optics and haptics in everyday life.

Smart Entrance – Touch to open ...

implements a trimmed design for the door too, as requested by architects and as has been implemented by car, kitchen and furniture manufacturers for some time. Skirting board and light switches have long since been available in a trimmed design and this has now – finally – been accomplished for the door too.

Smart Entrance – Touch to open ...

works in components without any faults for many years. Handles are moved, no longer sit perfectly after a while, start to rattle or, in the worst-case scenario, to dip. Once installed, contact handles form a fixed connection with the door. Things that don't move can't become loose and are therefore maintenance-free.

Smart Entrance – Touch to open ...

is the decision for sustainable technology. We are all getting older. Smart Entrance contact handles are made for the future so that older individuals with limited mobility can go through a door easily too. None of us know what restrictions age may bring. This makes the security of not having to make any modification to such an important component as doors in the future even more relieving.

Smart Entrance FAQs

TOP 10 overview

1 **How does the contact lock detect touch?**

Simply touching the contact handles is enough to open the door. Their surface works similarly to those of touch lamps or smartphones. The technology involved is a capacitive touch sensor. The capacity of the handles is changed by touching the metallic surface, and the electronics register this change.

2 **How exactly does this work when operated?**

When the door is closed, the latch is pulled out of the lock by the magnet in the strike plate and snaps into place in the strike plate. Touching the contact handles makes the contact lock's locking mechanism (latch) electrically retract. The motor overcomes the magnetic force between the strike plate and latch and pulls the latch out of the strike plate. The door can be open by pushing or pulling.

3 **How long do the batteries last for and what happens once the batteries are exhausted?**

The battery have a service life of up to 35,000 cycles, i.e. approx. 1.5 - 2 years. As soon as the batteries have reached a residual capacity of 10%, warning notes sound (double-beep every 5 minutes). The contact lock also pulls in the latch and does not release it until the batteries are changed. The door remains open and cannot be closed.

4 **What is part of the scope of delivery for the surface-mounted initial contact?**

Scope of delivery: SE contact lock, SE contact handle pair, connection, 4 micro alkaline batteries (1.5 V, type AAA), installation plates, short strike plate, screws, operating and installation instructions

What is part of the scope of delivery for the recessed initial contact?

Scope of delivery: SE contact lock, SE contact handle pair, connection, 4 micro alkaline batteries (1.5 V, type AAA), connection for lock/handle, short strike plate, screws, operating and installation instructions.

5 **How many variants are there of the initial contact?**

Is it suitable for both butt-joint and rebated door leaves?

There are currently two variants of the contact lock available.

Design 1 with a central latch is suitable for butt-joint door leaves that do not usually have a visible strike plate and are designed for magnetic locks.

Design 2 with a non-central latch is suitable for butt-joint and rebated door leaves that have a visible strike plate and are designed for mortise locks.

Smart Entrance FAQs

TOP 10 overview

6 For what door thicknesses is the contact lock designed?

Surface-mounted contact handles require a door thickness of 38 to 45 mm by default. The SE square rod with spring pin adapts accordingly. Door thickness up to 62 mm are also possible. A minimum door thickness of only 38 mm is required for recessed contact handles. The connection between the lock and handles is via cable or plug-in connectors.

7 Can contact locks be retrofitted in existing door leaves?

Yes, that's possible. However, the door leaf must not contain a keyhole and it must be possible to retrofit the strike plate with a magnet.

8 Does the contact lock have a closing function/toilet solution?

Yes, it is possible to close the door from inside the room using a closing button. The closing button looks similar to the „Home Button“ on an iPhone and had a red LED border. This border lights up red as soon as the door is closed. A warning note sounds outside if the handle is touched.

9 Is there an emergency release function?

Yes, this is activated by holding the contact handle for approximately 20 seconds. While doing so, warning notes sound. The person inside the room can thus detect that someone is attempting to open the door using the emergency release function. You can also remove the surface-mounted handles without tools and then manually open the door. The latch is also chamfered. This means that with butt-joint doors with recessed handles, you have the option, for example, to open the door using a bank card.

10 How can the contact lock be enabled/disabled?

There is an ON/OFF button between the battery compartment and the latch. You can press it, for example, using the tip of a ballpoint pen. You need to close the door when the warning note sounds. The lock is then prepared for the door leaf, the strike plate and the handles. Do not hold onto the handle during this process. The calibration process last about 20 seconds – a significantly longer warning note sounds once this process is complete.

Smart Entrance FAQs

- 11 How does the contact between the handle and lock come about?**
The contact between the lock and the handle occurs via a square rod with spring pins for surface-mounted handles. The spring pins can compensate various door thicknesses. The contact occurs via a cable for recessed contact handles. A cable lug round plug is provided on the handle. At the other end, the cable leads joins a short square rod that is inserted into the lock.
- 12 Do you need to touch the contact handle using your hand?**
The handle can also work if, for example, you are holding something in your hands and touch the handle using your elbow – even through thin shirts. However, thick gloves and winter coats prevent touch recognition.
- 13 Which handles are used for the contact lock? Can you use your own handles?**
You can only use the contact handles licensed by Baugruppenteknik Pollmeier GmbH in conjunction with the electric mortise lock as it cannot otherwise be guaranteed that everything will properly function. However, special handles are available upon request.
- 14 Is a special strike plate required?**
Yes, it needs to be a magnetic strike plate because this is how the magnet latch is pulled into the strike plate. The magnet in the strike plate can be retrofitted in certain circumstances or you can use the short SE magnetic latch strike plate made of stainless steel.
- 15 Are two-wing doors possible with the initial contact?**
Yes, for this to work the fixed wing must be equipped with a magnetic latch strike plate.

Smart Entrance FAQs

16 Which batteries are required for the contact lock?

4 micro alkaline batteries (1.5 V, type AAA) are required.

17 Do rechargeable batteries work too?

Yes, but their voltage capacity is less than that of the normal alkaline batteries. Rechargeable batteries are therefore exhausted more quickly and need to be replaced more frequently.

18 How can the batteries be replaced?

The lock has a battery compartment under the latch. Lightly pressing the battery compartment makes it spring forward. After replacing the four batteries (AAA), put the battery compartment back in place and switch on the contact lock using the ON/OFF switch.

19 What happens if there aren't any batteries in the lock?

If the contact lock is disabled beforehand, the latch is fixed and the door remains open, i.e. it cannot be closed. If you close the door without the battery compartment without disabling the lock beforehand, the latch is free and the door closes. If the contact lock is not powered, you will not be able to open the door using the normal touch function. You then need to open the door using the emergency release function, which does not require tools.

20 Is it possible to retrofit the recessed contact handles?

Please make an enquiry to us regarding your specific situation.

21 How is the contact lock installed?

The installation of the contact lock is very simple, just like with a conventional mortise lock. You need to insert the lock into the groove and fix it in place using two screws. Then insert the square rod with the spring contacts into the latch socket and tighten the fixing screws to the fixing plate. Now put on the contact handles. Finally, insert the battery compartment and activate the lock.

Smart Entrance FAQs

- 22 Are all the screws and accessories for the installation supplied?**
Yes, all the installation material is provided.
- 23 What prior knowledge is required for installing the initial contact?**
Carefully read through the associated operating instructions before installing or using the contact lock. The installations should be performed by individuals with DIY experience. Do not use force for the installation.
- 24 What tools are required for installing the initial contact?**
You will need a cross-slot screwdriver to install the contact lock and the strike plate.
- 25 What tools are required for installing the surface-mounted contact handles?**
You will need a 3 mm Allen key, and a 10 mm and a 12 mm spanner for the fixing screws for the handles. The contact handles themselves can be pushed onto the fixing screws without using any tools. You will need to fix the parts of the Dione handle in place against each other using a 2.5 Allen key.
- 26 How are the recessed contact handles installed?**
The recessed handles can be pushed into place or glued in place.
- 27 What tools are required for installing the recessed contact handles?**
Depending on the groove, a hard rubber mallet might be helpful.
- 28 Is this tool included in the scope of delivery.**
No, no special tools are required for the installation. Qualified workers will have all the required tools in their „toolbox“.

Smart Entrance FAQs

- 29 Are there any settings for adjusting the contact pressure of the latch?**
Yes, the magnet insert in the default SE strike plate can be rotated. This allows you to adjust the contact pressure.
- 30 How is the contact lock tested?**
The contact lock is tested internally as per DIN EN 14846 Building hardware - Locks and latches - Electromechanically operated locks and striking plates - Requirements and test methods. In doing so, it is tested for at least 50,000 opening cycles.
- 31 What classification (safety requirements) does the contact lock have?**
It is in class 1: for use by people with a high incentive to exercise care and a small chance of misuse, e.g. internal residential doors.
- 32 Is it possible to fit external residential doors with the contact lock?**
No, not currently. The contact lock is designed for internal residential doors and doesn't therefore meet the requirements for other resistance classes.
- 33 Can the contact lock be used for emergency exit doors?**
No. Use of the electric mortise 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. Such use would void any warranty claims.
- 34 Can the contact lock be used for doors in public buildings.**
No. Do not use the touch lock for frequently used doors in public buildings or rooms to which access should be secure. Such use would void any warranty claims.

Smart Entrance FAQs

- 35 Which grooves in the door leaf are required for the contact lock?**
The lock corresponds to the DIN standard (DIN 18251). The face plate is 20 mm wide and 235 mm long. The backset is 55 mm.
- 36 Is the weight of the door important?**
Doors up to 100 kg have been tested and approved.
- 37 What is the installation height of the contact lock?**
The lock is position at the standard height:
Upper edge of finished floor – centre of backset = 1050 mm.
- 38 What bore holes are required for the handles? How are the handles fixed?**
You can install the contact handles on the installation plate provided which is designed for the standard door hole bore hole (38 mm). You need to make an extra bore hole as per the installation instructions for the Vigo and Pallene contact handles.
- 39 What material are the surface-mounted contact handles made of?**
The surface-mounted handles are made of die-cast zinc.
- 40 What material are the recessed contact handles made of?**
The base plate is made of plastic; the cover plate and the handle base are made of stainless steel.
- 41 What surface are available?**
There is currently handles with a surface similar to a matt stainless steel. Special handles are available upon request.
- 42 Are wear or scratches to be expected on the surface of the contact handles?**
Unlike conventional door handles, you do not need to grasp the contact handles. Simply touching them, usually with a fingertip, is enough. This means that the handle surface is rarely exposed to hard materials, e.g. rings, and it comes under less stress.

Smart Entrance FAQs

- 43 Where are the products manufactured?**
The Smart Entrance contact locks and handles are manufactured at Baugruppentechnik Pollmeier GmbH in Germany.
- 44 How is the high level of quality ensured?**
Reliable and good partners ensure the high level of quality. We subject each contact set to a 100% functional inspection.
- 45 Does electricity flow through the body upon touching the contact handle?
Are there electromagnetic stresses?**
The lock corresponds to the EC directives 2004/108/EC. No electricity flows through the human body. The lock only detects the change in capacity (capacitive touch sensor) of the handle, similarly to in touch lamps.
- 46 Is the lock affected by WiFi, mobiles or other rays?**
The lock has also been tested internally as per DIN EN 14846 Building hardware - Locks and latches - Electromechanically operated locks and striking plates - Requirements and test methods for its susceptibility to high-frequency electromagnetic fields. It passed the test.
- 47 Does the contact lock have a connection for Bluetooth control?**
No, this is not currently possible.
- 48 Is it possible to lock a door using a number code or finger print?**
No, this is not currently possible.
- 49 Does the lock respond if the surface is wet/moist (e.g. after showering)?**
Yes. The lock still responds to touch if the surface is moist.
- 50 Can the contact lock also be used with steel frames?**
Not currently as this has not yet been tested. It is possible with aluminium frames.

Smart Entrance FAQs

51 **How exactly does the emergency release function work?**

With the Vigo & Pallene design models, you can push the handle towards the frame. The tool is integrated in the handle itself in order to manually rotate the square spindle. The door opens. You then need to turn the square spindle back to the initial position.

With the Venix & Planum design models, you can push the handle upwards. The tool is integrated in the handle itself in order to manually rotate the square spindle. The door opens. You then need to turn the square spindle back to the initial position.

With the Dione design model, you can rotate half of the handle in an emergency. During the installation, make sure that this half of the handle is on the inside of the room and not on the corridor side. From the corridor side, you can remove the Dione handle by removing a grub screw.

52 **What happens if the electronics in the contact lock stop working?**

In an emergency, you can remove the handles without tools and manually open the door.

53 **Where can you order the contact lock?**

You can get the lock from a specialist shop.

You can find specialist shops near you via www.smart-entrance.de.

54 **Why does the opening process take so long?**

As the rotary movement is no longer necessary, the door opening appears to take longer.



Smart Entrance POS marketing solutions

Professional advice & successful presentation

We want to make our customers' interests into our own.

Focused, professional sales support is at least as important as a wide product range and high product availability in this day and age – and BGT Pollmeier GmbH offer this at all times. The very first look from a customer needs to be convincing – before any explanations and detailed information is provided about the products presented. Our support for the sales success of our new Smart Entrance competence area is particularly substantial. In this area, we provide numerous sales-oriented materials, such as brochures, eye-catching displays, stand-up displays and sample cases.

Smart Entrance presentation folder

The presentation folder is used to provide a convincing first impression. It is perfect for quickly packing all documents collected together with the option of a flexible composition.

Folder, incl. Smart Entrance brochure, sales aid flyers, price lists, order forms, note pads and pens for the customer discussion



Smart Entrance POS marketing solutions

Professional advice & successful presentation

Smart Entrance professional sample case

The innovative sample case provides a high degree of quality and functionality. As sales and presentation packing it represents both a practical and durable advertising medium that provides both optimal protection for the high-quality products and also secure transport to the target destination.

Sample case for the presentation, incl. contents:

SE contact lock, SE strike plate,
SE Pallene, Planum, Vigo, Dione, Venix contact handles,
SE fixing material



Smart Entrance table display

The eye-catcher on the counter isn't only pleasing to the eye, it also guides the hand and makes it possible to perceive values such as innovation and design. If multiple senses are awoken together, this allows us to perceive things more successfully. Furthermore, our ability to recognise things is significantly improved by haptic-visual exploration.

Door in mini format with butt-joint contact lock and contact handle of choice



HÄFELE



Smart Entrance

BY POLLMEIER

Something
you touch every day
should feel good.