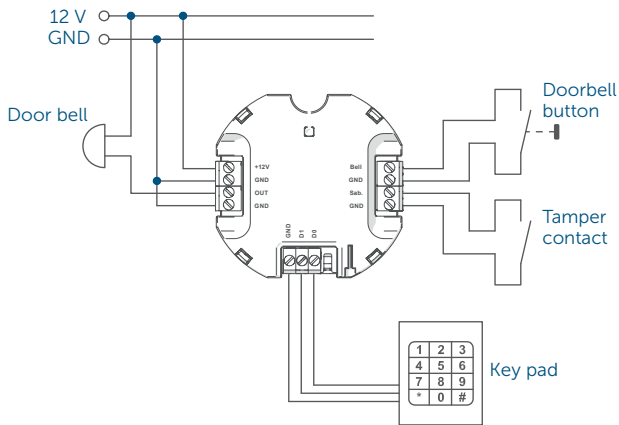# Wiegand interface

HmIP-FWI

The Wiegand interface enables a Wiegand-enabled device, such as a code lock, fingerprint sensor or card/transponder reader, to be integrated into the Homematic IP smart home system. This creates numerous possibilities for controlling Wiegand-compatible devices via the free Homematic IP app and combining them with other Homematic IP devices.

homematic IP

Smart living. Simply exciting.

12 V
GND

Door bell

+12V
GND
OUT
GND

GND
D1
D0

Bell
GND
Sab.
GND

Doorbell
button

Tamper
contact

1	2	3
4	5	6
7	8	9
*	0	#

Key pad

INDIVIDUAL CONTROL

The Wiegand interface has eight virtual input channels that can be individually linked to the Wiegand codes. A Wiegand code can control one or more virtual input channels and thus trigger one or more actions (such as switching a switch actuator, opening a door via a door lock actuator or activating/deactivating alarm functions).

AN ARRAY OF POSSIBILITIES

In addition to the Wiegand inputs, the device has an input for connecting a doorbell button, an input for connecting a tamper contact, and a switching output with versatile applications, such as switching an LED or a bell.

SMART INTERFACE

The Homematic IP Wiegand interface enables many Wiegand-enabled devices, such as a code lock, fingerprint sensor or card/transponder reader, to be integrated into the Homematic IP system.

Using the Homematic IP app, the Wiegand interface can be set up according to individual requirements and Wiegand-enabled devices can be integrated into a smart system. This makes access to a smart home not only secure but also smart and simple.

SIMPLE INSTALLATION

The Wiegand interface's compact design means it fits into all common flush-mounting boxes. For ease of installation, flush-mounting boxes with a depth >50 mm are recommended.

The versatile wiring options offer the choice of use with the following Wiegand-compatible devices:

✔ Code lock
✔ Fingerprint sensor
✔ Card/transponder reader
✔ Doorbell
✔ Tamper contact

Operation requires connection to one of the following solutions:
■ Homematic IP access point with free smartphone app and free cloud service
■ Third-party partner solutions

TECHNICAL SPECIFICATIONS

Supply voltage	5–12 VDC
Power consumption in standby	60 mW
Open-drain output:	
Max. switching voltage	20 V
Max. current	200 mA
Cable type and cross section	0.2 – 1.5 mm
Installation	Only in 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)
Degree of protection	IP20
Ambient temperature	-10 to +55 °C
Dimensions (W x H x D)	52 x 52 x 14 mm
Weight	20 g
Radio frequency band	868.0–868.6 MHz 869.4–869.65 MHz
Typical range in open space	210 m

LOGISTICS DATA

Product reference	155182A0
EAN code	4047976551828
Short description	HmIP-FWI
Packing unit	144
Packing dimensions	122 x 93 x 36 mm
Weight incl. packaging	103.7 g

PACKAGE CONTENTS

Homematic IP Wiegand interface
Operating manual