



RFID



WiFi



PoE



Wiegand



Tamper Sensor

## A1121 RETROFIT

### IP ACCESS CONTROL DEVICE

For retrofit installations with existing front panel

Keypad • 125 KHz and 13.56 MHz RFID Reader • Bluetooth Transceiver



# SMART ACCESS CONTROL

## ADVANTAGES

The DoorBird A1121 is a compact, IP-based multi-technology access control system that can also be installed as a stand-alone solution. It enables secure access control in areas where the installation of an IP video door station is not possible or desired, e.g. at back and side doors, garages and underground garages, storage and packing rooms or bicycle and machine rooms. It can also control elevators. The keypad is illuminated, so you can install the device even in an unlit environment.

Thanks to its compact shape, the device can be easily installed on a door frame. The access control device is also ideal if you wish to create one-time or temporary access codes for visitors.

The DoorBird A1121 combines the functions of three separate access control devices:



125 KHz  
RFID Reader



13.56 MHz  
RFID Reader



Keypad



The device is designed for indoor and outdoor installation. The retrofit version is available for existing front panels. Our front panel is made of solid 3 mm (0.12 in) brushed stainless steel. All buttons are backlit.

The DoorBird A1121 can be connected to the network via WLAN or LAN cable. If connected using a network cable, the device can be powered via Power over Ethernet (PoE). Should the Internet temporarily fail, all functions continue to operate within the local network.



Apart from the network connection and power supply (PoE or 15 VDC), no further hardware is required. The software for the IP access control solution runs within the device.

The DoorBird A1121 is equipped with two relays and has a configurable Wiegand output interface for integration into an existing access control or alarm system.

Using HTTP(S) calls, you can also integrate the device with third-party home and building automation systems.

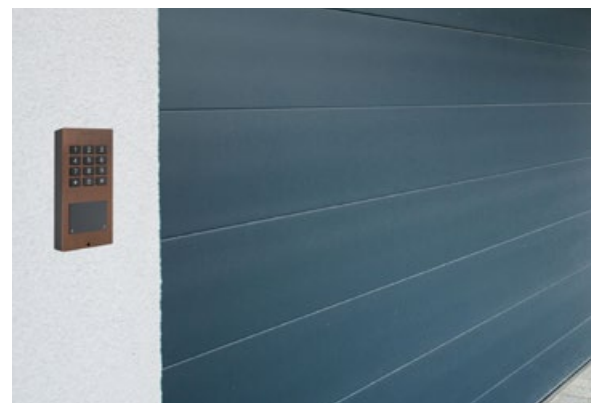
All settings can be configured remotely using the free DoorBird app or our web-based administration tool: <https://webadmin.doorbird.com>

You can define individual schedules, validities and actions for each PIN code, RFID transponder, etc. By pairing the DoorBird IP access control device with our DoorBird IP I/O Door Controller A1081, up to three additional gates, doors or elevators can be controlled in a tamperproof way, even if they are not located near the device.

The integrated tamper sensor can detect that the device is being removed and, for example, send a push message as an alarm in real time.

## QUALITY MADE IN GERMANY

All DoorBird products are designed, developed and produced by Bird Home Automation Group in Berlin, Germany. We manufacture all products with the greatest care and precision, and deliver them to our customers all over the world.



| GENERAL              |  |
|----------------------|--|
| Front panel          | 3 mm (0.12 in)<br>Available in brushed stainless steel V2A / V4A   |
| Mounting type        | Retrofit Version.<br>Surface-mounted and flush-mounted version sold separately   |
| Stromversorgung      | 15 - 48 V DC (max. 15 W) oder Power over Ethernet (PoE 802.3af Mode-A)   |
| Keypad Modul         | 12 Tasten, beleuchtet, konfigurierbar per App, z.B.<br><ul style="list-style-type: none"> <li>• Individuelle PIN Codes</li> <li>• Individuelle Events (z.B. Relais schalten, HTTP(s) Aufruf)</li> <li>• Individuelle Zeitpläne</li> <li>• Es können bis zu 500 PIN Codes verwaltet werden</li> </ul> |
| Manipulationsensor   | Integrated   |
| Weight               | 515 g  |
| Connectors           | <ul style="list-style-type: none"> <li>• LAN/PoE (T+, T-, R+, R-)</li> <li>• 2 x Bistable latching relay (potential-free), max. 1-24 V DC/AC, 1 A, e.g. for electric door opener</li> <li>• 15 - 48 V DC input (+, -), max. 15 W</li> <li>• Wiegand</li> </ul>                                       |
| Weatherproof         | Yes, IP65  |
| Approvals            | IP65, CE, FCC, IC, RoHS, REACH, IEC/EN 62368   |
| Dimensions           | 168 x 102 x 28 mm (H x W x D)<br>6.61 x 4.01 x 1.10 in (H x W x D)   |
| Operating conditions | -25 to +55°C / -13 to 131 °F<br>Humidity 10 to 85 % RH (non-condensing)  |
| Scope of delivery    | 1x Main Electrical Unit<br>1x Front panel<br>1x Power supply unit (mains adaptor) with 4 country-specific outlet adaptors (110 - 240 V AC to 15 V DC)<br>1x RJ45 adapter<br>1x Screwdriver<br>1x Quickstart guide with Digital Passport<br>1x Installation manual<br>1x Small parts                  |
| Warranty             | Siehe <a href="http://www.doorbird.com/warranty">www.doorbird.com/warranty</a>   |

| CURRENT SYSTEM REQUIREMENTS |  |
|-----------------------------|--|
| System requirements         | <p>Mobile device: Newest iOS on iPhone/iPad, newest Android on Smartphone/Tablet</p> <p>Internet: High-Speed Landline Broadband Internet connection, DSL, cable or fiber optic, no socks or proxy server</p> <p>Network: Ethernet Network, with DHCP</p> |

| AUDIO            |                             |
|------------------|-----------------------------|
| Audio components | Piezzo, for system messages |

| NETWORK             |   |
|---------------------|---|
| Ethernet            | RJ45 jack, PoE 802.3af Mode-A, 10/100 Base-T                  |
| WiFi                | 2.4 GHz b/g/n   |
| Supported protocols | HTTP, HTTPS, SSL/TLS, Bonjour, DNS, TCP, UDP, ICMP, DHCP, ARP |

| 125 KHZ RFID READER    |   |
|------------------------|---|
| Type                   | Active Reader Passive Tag (ARPT) system   |
| Standard               | ISO/IEC 18000-2:2009 Part 2, EM4100, EM4102   |
| Frequency              | 125 KHz   |
| Range                  | 0 - 3 cm, depends on environment  |
| Compatible Transponder | RFID key fobs, sold separately, see <a href="http://www.doorbird.com/buy">www.doorbird.com/buy</a><br>Up to 500 transponders manageable   |
| Configuration          | Via App, e.g.<br><ul style="list-style-type: none"> <li>• Tag (add, delete)</li> <li>• Individual events (e.g. switch a relay, HTTP(s) notification)</li> <li>• Individual schedules</li> </ul> |

| 13.56 MHZ RFID READER  |  |
|------------------------|--|
| Type                   | Active Reader Passive Tag (ARPT) system  |
| Standard               | UID (CSN) of: MIFARE Classic®, MIFARE DESFire® EV1 and EV2, ISO14443A, ISO14443B, ISO15693, NFC® (HCE support required)  |
| Frequency              | 13.56 MHz  |
| Range                  | 0 - 3 cm, depends on environment   |
| Compatible Transponder | RFID key fobs, sold separately, see <a href="http://www.doorbird.com/buy">www.doorbird.com/buy</a><br>Up to 500 transponders manageable  |
| Configuration          | Via App, e.g.<br><ul style="list-style-type: none"> <li>• Transponder (add, delete)</li> <li>• Individual events (e.g. switch a relay, HTTP(s) notification)</li> <li>• Individual schedule</li> </ul> |

| WIEGAND INTERFACE                             |  |
|---|--|
| Direction                                     | Output   |
| Supported protocols                           | 26, 30, 31, 34, and 44 bit   |
| Supported data output                         | 125 MHz RFID transponder, 13.56 MHz RFID transponder, Keypad PIN codes   |
| Maximum distance to controller (cable length) | 18 AWG: Max. 500 ft. (150m)<br>20 AWG: Max. 300 ft. (90m)<br>22 AWG: Max. 200 ft. (60m)  |
| Voltage                                       | When no data is being sent, both DATA0 and DATA1 are pulled up to the "high" voltage level, +5 V DC. The interface is galvanically isolated. |

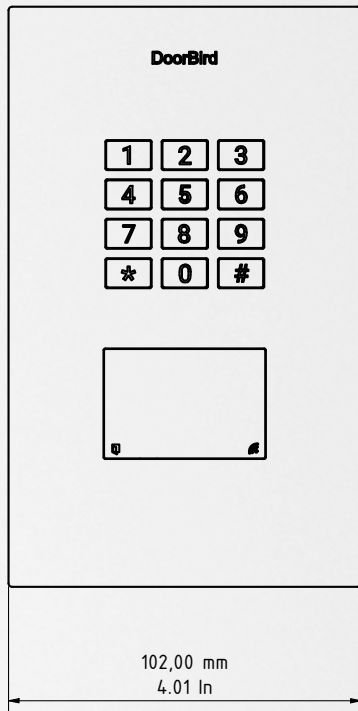
| INTEGRATED WIRELESS MODULES |   |
|-----------------------------|---|
| WiFi                        | 2.4 GHz   |
| RFID                        | 125 KHz<br>13.56 MHz<br>(Configuration: either-or)                      |
| Bluetooth                   | Bluetooth Low Energy (BLE), enabled with future firmware and App update |

| THIRD-PARTY INTEGRATION (DOORBIRD CONNECT) |  |
|--|--|
| Partner integrations                       | see <a href="http://www.doorbird.com/connect">www.doorbird.com/connect</a> |
| API  | see <a href="http://www.doorbird.com/api">www.doorbird.com/api</a>         |

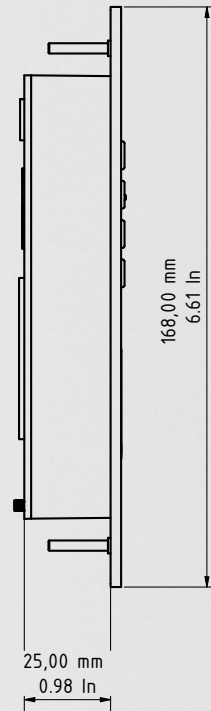
| OPTIONAL ACCESSORIES |  |
|----------------------|--|
| Sold separately      | see <a href="http://www.doorbird.com/buy">www.doorbird.com/buy</a> |

Special remarks:  
Assembly requires professional skills or a technician.

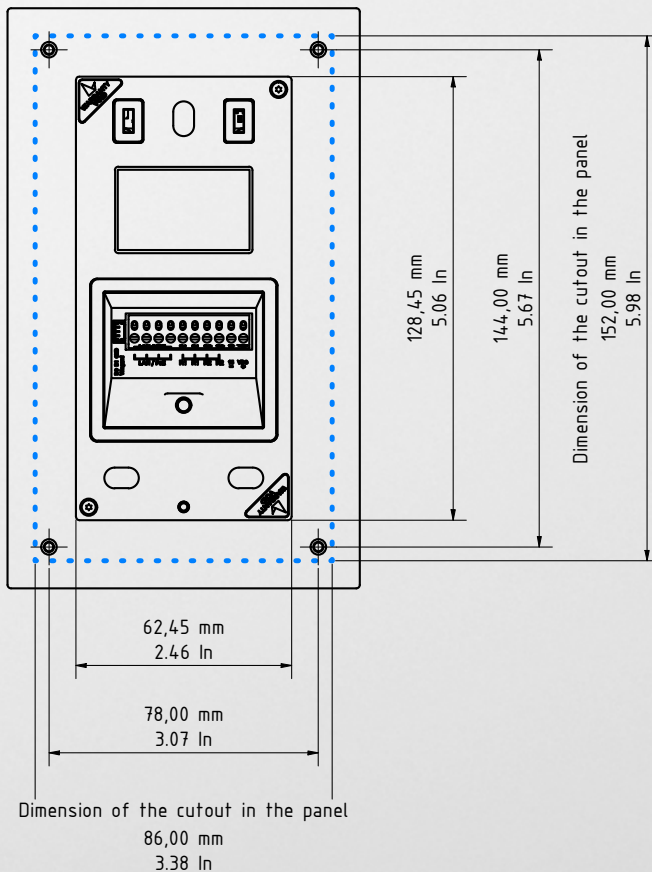
Front panel material thickness: 3.0 mm (0.12 in)



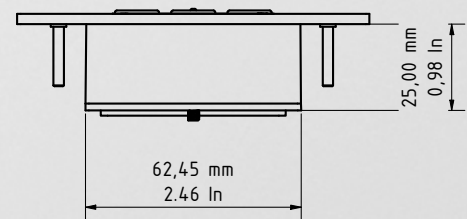
Front



Side



Back side



Top side