record R 62
Interlock security gate as an access control system
The record R62 security portal guarantees secure access control for vulnerable and specially protected areas. Two round sliding doors are connected to each other by design to create an interlock gate system for separating people. Authorisation takes place in front of the portal, e.g. automated authorisation using a card reader or fingerprint, or is done manually by security personnel.

An additional check can also be made inside the portal to check whether several people are inside it without authorisation. This can be done using pressure contact mats or 3D-cameras, depending on the safety level. Further authorisation can also take place inside the portal.

An integrated control system analyses all sensors and opens or closes both doors one after the other as appropriate.

**Designs**

The record R62 is available with three passage widths of 600, 900 or 1100 mm. The two larger versions are wheelchair accessible. A variety of design options are available to you to ensure that the interlock gates can be incorporated harmoniously into the overall architectural setting. They can be visually open and light as a glass construction, or they can be opaque. In addition to an anodised finish, powder coating in any RAL colour is also available as a surface treatment for the metal parts. Stainless steel casing is also optionally available.

All components are fully integrated into the hood and are secured to prevent unauthorised access. No external control cabinets are necessary, simplifying incorporation into existing security concepts. The assembly can be installed on a recessed floor ring or on the finished floor.

**The advantages at a glance**

- Covers various security levels
- Anti-tailgating monitoring
- Anti-piggybacking monitoring
- Fully integrated components. No external control cabinets are necessary.
- Low hood height of 220 mm – the system can therefore also be used in confined spaces
- Only minor preliminary structural work is necessary
- For indoor and outdoor applications
- Wheelchair accessible versions are available
- Anodised aluminium, powder coating or stainless steel configurations possible
- Individual components are easily accessible for maintenance
- Connection to building management systems is possible

**Technical design**

- 5 operating modes can be selected via BDE-S key-operated program selection: doors locked, monitoring in the “outside to inside” direction, monitoring in the “inside to outside” direction, monitoring in both directions and both doors permanently open.
- Access information via traffic light control
- Panic button inside the portal for escaping in an emergency through the door that was opened last
- LED lighting in the ceiling
- Super User function for deactivating monitoring for one cycle via a special privilege (e.g. for people in wheelchairs, material handling, etc.).
- Easy-access service connection socket in the frame profile
- record STA 20 drive from the tried and tested record sliding door family for all passage widths
- PLC control unit from the record FlipFlow, used for many years as an airport interlock gate

**Passage capacity**

Between 4 and 6 persons per minute can pass through the interlock gate, depending on the security setting.

**Design**

Door and drum wall glazing is available in thicknesses and designs such as VSG or P5A. Other glazing options are available on request. Drum walls and / or doors are also available as opaque panel walls.

The anodised finish or powder coating are available in any RAL colour. Stainless steel casing is also optionally available. Other materials are available on request.

**Sizes**

Passage widths are 600 mm, and 900 mm or 1100 mm for the wheelchair versions.

**Available documentation:**

- Instructions
- Brochure
- CAD drawings
- BIM model
- Animated illustration of security levels

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Security Levels

With multiple security levels, various security concepts can be incorporated into the record R 62. A distinction is made here between access by means of a chip, iris recognition and similar, an extended security level with a pressure sensitive floor mat and a high security variant with a 3D scanner for the interior.

In addition to these three automated security concepts, there is also the option of having access controlled purely manually from the outside by security personnel.

Security Level: Low

Without sensor technology for automatically monitoring the number of people. For use as an interlock gate for separating people.

Operation
- First door opens (for example after successful release by the access control system)
- Second door opens as soon as the first door has closed again or
- the user inside the portal is authorised again, e.g. by using a card reader provided by the customer, or
- external signal from security personnel

Security Level: Middle

Anti-tailgating monitoring. To prevent a second person from following an authorised person into the interlock gate unnoticed.

Equipment
- 2-zone pressure contact mat for monitoring the number of persons

Operation
- First door opens (for example after successful release by the access control system)
- As soon as the first door has closed again, a second door opens and the pressure contact mat detects only one person inside the portal.

Security Level: High

Monitoring of anti-tailgating and anti-piggybacking. Prevents a person from passing an additional, unauthorised person through the interlock gate.

Equipment
- 3D-camera for monitoring the number of people

Operation
- First door opens (for example after successful release by the access control system)
- A second door opens as soon as the ceiling-mounted 3D-camera has ensured that only one person is inside the portal.

Technical Information

Passage width A
- Outside diameter Q
- 20mm aluminium profile
- 30mm aluminium profile
- Passage height G
- G with 3D camera
- Hood height
- Overall height
- Wheelchair accessible
- Security Level
  - Low (without sensor; interlock gate function)
  - Middle (pressure contact mats; anti-tailgating)
  - High (3D camera; anti-tailgating & anti-piggybacking)

Electrical connection data

Connection data STA 20
- Rated voltage
- Mains fuse
- Power consumption
- Control voltage
- Mains fuse in the control system
- Protection class
- Protection type
- Temperature range
- Moisture content range

1) min. 2 400 mm for High security level
2) local regulations may vary
**Technical Information**

**Electrical connection data**

**Connection data STA 20**

- **Rated voltage**: 100 – 240 V AC, 50 / 60 Hz (STA 20); 115 V AC 50 / 60 Hz (USA)
- **Mains fuse**: 16 A circuit breaker with tripping characteristic C or K
- **Power consumption**: max. 700 V A
- **Control voltage**: 24 V DC (safety extra-low voltage supply)
- **Mains fuse in the control system**: T4A (per door control)
- **Protection class**: 1
- **Protection type**: IP 20
- **Temperature range**: −15° to +50° C
- **Moisture content range**: up to 85 % rel. humidity, non-condensing

**Passage width A**

- 600 mm
- 900 mm
- 1100 mm

**Outside diameter Q**

- 20 mm aluminium profile
  - 1035 mm
  - 1455 mm
  - 1735 mm
- 30 mm aluminium profile
  - 1090 mm
  - 1510 mm
  - 1790 mm

**Passage height G**

- 2 100 – 3 000 mm
- 2 200 – 3 000 mm
- 2 200 – 1 000 mm
- 2 220 – 3 000 mm
- 2 220 – 1 000 mm
- 2 320 mm³

**Hood height**

- 220 – 1 000 mm
- 220 – 1 000 mm
- 220 – 1 000 mm

**Overall height**

- min. 2 320 mm

**Wheelchair accessible**

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**Security Level**

- Low (without sensor; interlock gate function)
- Middle (pressure contact mats; anti-tailgating)
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IP 20

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**Vertical section**

**Horizontal section**

**General view**
Options & connection options

With the record R 62, we offer you a full range of options for optimum adaptation to structural conditions and security requirements.

Options

- Additional "Cleaning" operating mode
- Additional "Maintenance" operating mode
- Flashing light (display of alarm messages)
- Voice module (instructions for the user via speakers)
- Anodic coating of aluminium parts (except ceiling plates)
- Door and drum wall glazing is available in thicknesses and designs such as VSG, insulating glass (not for 600 mm), P4A or P5A
- Panel walls (fixed, movable or combined) for opaque protection
- Weather protection hood for outdoor applications
- Security package with optical sensors and vertical light sensors for contactless protection of the closing edges
- Traffic light display, secure side, inside/outside
- Traffic light display, public side, inside/outside
- Mechanical manual release with optional motor disconnection to enable manual door opening by pushing or automatic door opening
- Potential-free VdS contacts (monitoring of door position for on-site alarm system)

Connection options

The following connections are available as permanently assigned inputs:

- Lockdown (emergency opening, i.e. the installation enters safe condition — one door is locked, the other door opens)
- Total opening (emergency opening of both doors)
- Access door opening (e.g. using a code, card readers, on-site button, etc.)
- Super User (e.g. using a code, card readers, on-site button, etc.)
- Connection for programming devices (Service Display and FPC)
- 2 connections for service flaps switch (monitoring of the service flaps)

16 status signals are also optionally available – this enables various parameters to be transferred to a building management system.

Connection to building management systems

The record R62 interlock security gate has numerous freely configurable connection options to permit full integration of the gate into new or existing building management systems.

The following can be queried:

- Operating mode
- Error messages
- The general status of the interlock gate

This means that operating times, for instance, can be controlled: various parameters and operating modes are used to configure the flow of people and building protection. This makes it possible to focus on the maximum flow of people during standard working hours, while building protection, with access restrictions, takes priority at off-peak times.

When using an appropriate access control system, individual and personal access rights can also be configured. The way in which identification takes place (card reader, fingerprint, iris scanner, keys etc.) can also be selected at will.
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