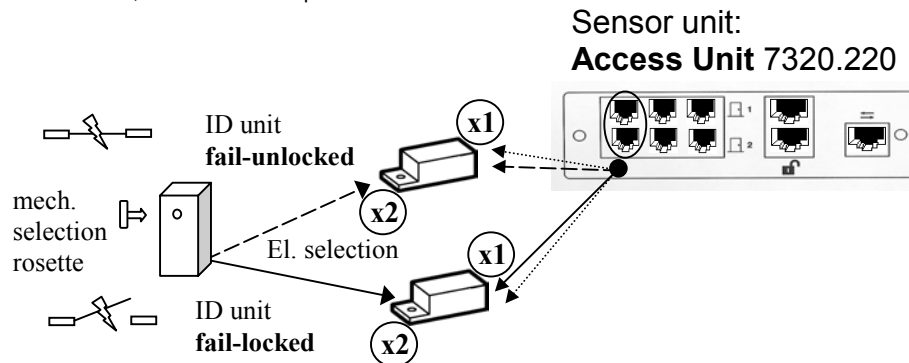# Universal lock

DK 7320.730

Note:

For reasons of clarity of the presentation, these operating instructions do not contain all information details and also cannot cover every possible case of installation, operation or repair. Technical specifications are subject to change without notice. In case of doubt, the German text prevails.

Sensor unit:
Access Unit 7320.220

Basic description:

The universal locks can be connected to the Access Unit 7320.220 (max. 2). The lock functions as a door interlock and latch monitor. An access sensor for each lock must be mounted on the controlled door. If the access sensor and the latch are closed, the interlock coil integrated in the universal lock locks automatically. The universal lock can be released through the CMC-TC system in the network or through optional extra systems, e.g., a chip card reader (7320.750), magnetic card reader (7320.760), number code lock (7320.770) or an individually settable floating switching contact (7320.580).

The sales pack contains two ID units. One ID unit is for the "closed circuit current" mode, the other ID unit is for the „open circuit current" mode. The rosette must be mounted for the respective mode. The difference between the open circuit and the closed circuit current modes is that the closed circuit current controls the locking and the open circuit current controls the opening of the lock. The active ID unit is assigned a code to ensure that it is identified and set up automatically by the CMC-TC system. The following components are required for operating the locking system:

- Processing Unit (7320.100) with mains adapter (e.g., 7320.425), connecting cable complying with local specifications, programming cable.
- Sensor unit (7320.220), connecting lead (RJ45, Cat5).
- Mounting bracket, for the specific cabinet (see Rittal accessory range)
- Access sensor (7320.530)

General conditions of use:

- The lock unit must only be used together with the Rittal CMC-TC system.
- The operating instructions / safety instructions of the Processing Unit and of the above sensor unit apply
- The maximum cable length between the sensor unit and the handle is 2.1m. The connection must be made with the integrated connecting cable, one of the ID units and the connecting cable in the sales pack. Extension cables 7200.450 for special applications are available after consultation with our central office.
- It is absolutely necessary that these cables are installed separately from mains power cables.
- The use of the universal lock are exclusively limited to the specified ambient conditions.
- It is forbidden to open the enclosure of the lock. It does not contain parts requiring maintenance.
- Before making the connection, check to be sure that the lock can be used with the device / module.
- It is forbidden to render safety equipment ineffective.
- Direct contact of the lock with water (e.g., dew), oil sludge or any aggressive substances is forbidden.
- Use in locations with flammable gas or vapour is forbidden. Protection from water, dust, etc. must be ensured by installation in an enclosure or rack.
- The CMC-TC system must not be live with voltage when the lock is being connected to the sensor unit.
- The lock must be installed properly as described in the separate installation instructions.

Technical data:

Coil voltage 24 V DC
Coil current consumption 140mA
Connection: RJ12 socket 6-pole
Lock connecting cable: length 0.1m, RJ12 plug
ID connecting cable: length 2m, RJ12/RJ12 plug
1st connection x1: RJ12 socket 6-pole (for connection to the sensor unit)
2nd connection x2: RJ12 socket 6-pole (for connection to the universal lock)

Tensile strength 1000 N
Enclosure temperature with continuous current c. 60°C
Temperature range: +10°C to +40°C
Protection category: IP20

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Description:
Functional characteristics:
The universal lock DK 7320.730 comprises two parts. The first part is the locking element, which is mounted on the frame of the enclosure, for example. The second part is the rosette, which is mounted on the door.
When the door is closed, the lock bolt of the rosette engages in the locking element and the enclosure is locked. If the enclosure is to be opened, it is first necessary to unlock the locking element electrically.
The universal lock can be installed for the rosette to engage in the locking element either from the front end or from the top side, depending on the individual application (see Figure 1).
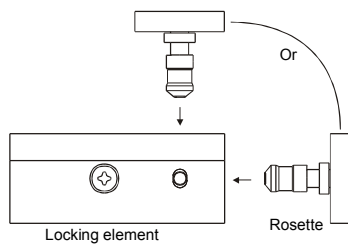
Figure 1: Locking principle

Setting of operating mode fail-unlocked or fail-locked
The two pictograms for fail-unlocked and fail-locked operation are marked on the rosette (see Figure 2). To select fail-unlocked mode operation, the marking on the locking element must point to the fail-unlocked pictogram on the rosette. If fail-locked mode operation is required, then the marking must point to the fail-locked pictogram.
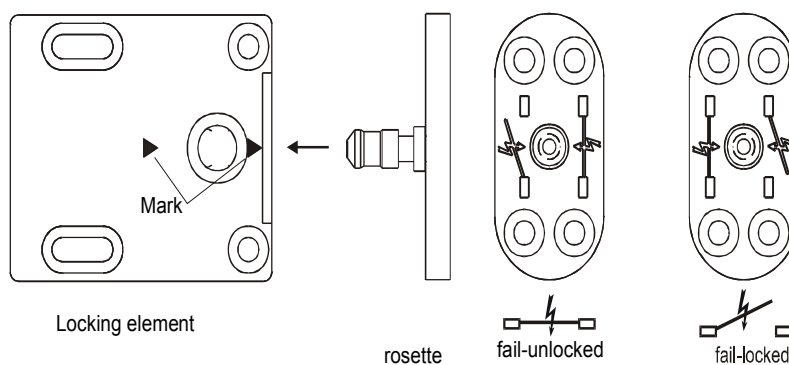
Figure 2: Rosette alignment

Mounting

Mounting and adjustment work may only be carried out in the rosette position <u>fail-unlocked</u>, should it not yet be possible to release the compact lock electrically. It would otherwise not be possible to re-open the door after closing.

The locking element and the rosette each possess four cylindrically countersunk mounting holes. The spacing of the holes corresponds to a 32 mm grid. Mounting adapters can be supplied ex works for mounting in the most varied Rittal enclosures.
The two stainless steel washers must always be inserted into long holes of the locking elements before fixing of the screws.

Important note:
In case of power supply failure during fail-locked mode operation, it is not possible to unlock and thus open the door.

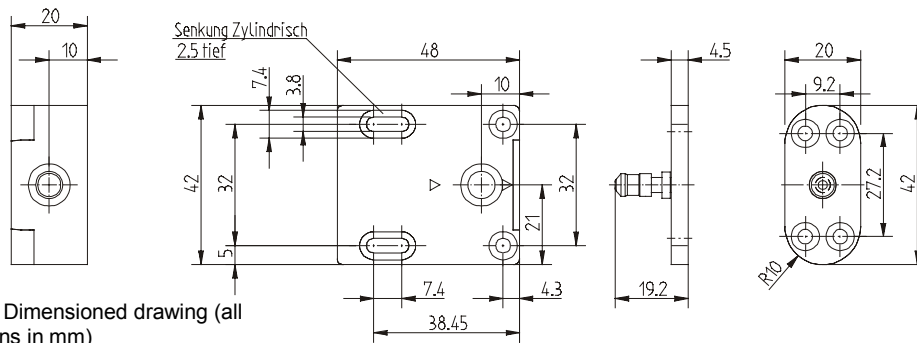Umschalten auf Perfektion **RITTAL**

Dimensioned drawing:

Figure 3: Dimensioned drawing (all dimensions in mm)

Mounting instructions: (without Rittal mounting adapters)

When mounting, the locking element and the rosette must be aligned flush to each other, as shown in Figure 4. The lock bolt of the rosette must be able to engage with the locking element fully and without hindrance when the door is closed. The door itself, furthermore, must not exert any pulling forces on the locking element. The alignment of the locking element and the rosette is achieved through the long holes of the locking element. A double-sided adhesive film is supplied to aid the positioning of the rosette. This film is affixed to the reverse side of the rosette. When the adhesive film is in place, the rosette can be inserted into the mounted locking element – in its fail-unlocked position – and the door closed. When the door is now re-opened, the rosette will be sticking to the door in its correct position and can be mounted directly for use in fail-unlocked mode. If the fail-locked mode is required, then the rosette must be rotated by 180° after marking the positions of the fixing holes.

The rosette must never be mounted when rotated by only 90°, as shown in Figure 5. If the lock bolt of the rosette were to engage in the locking element in this position, it would no longer be possible to re-open the door.
Correct positioning: The lock bolt of the rosette can engage fully and without hindrance into the locking element.
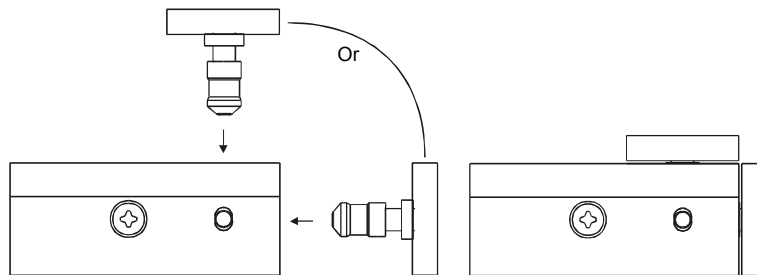

Figure 4: Mounting instruction

Incorrect positioning: The rosette engages into the locking element when rotated by 90°.
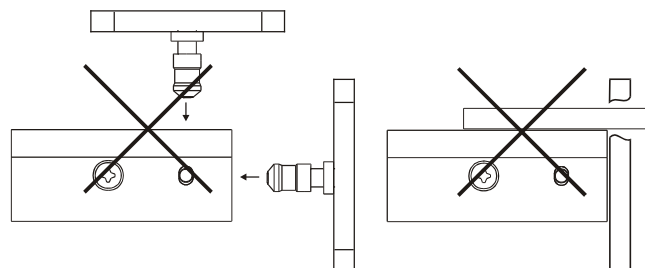

Figure 5: Mounting Instructions

Mounting examples:

An accessory pack with fixing material is enclosed with the universal lock. For installation in Rittal enclosures, it is possible to obtain adapter brackets to further simplify mounting.

Order no.	Designation
7200.611	Mounting kit for PS sheet steel door
7200.612	Mounting kit for PS aluminium viewing door
7200.613	Mounting kit for FR sheet steel door
7200.614	Mounting kit for FR sight door
7200.615	Mounting kit for TS sheet steel door
7200.616	Mounting kit for TS sight door
7200.617	Mounting kit for VR door

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