

Case study

Office center



Requirements

Securing the entry and exit via the barrier, the gate controlled from the reception – communication with the reception about the opening of the gate when the gate is closed (after 6 p.m. or in the winter). Prepaid long-term parking, monitoring of the occupancy of garages, visitors records, card groups for a specific number of parking spaces allocated to individual companies in the office centre, chargeable parking for vehicles with unauthorized entry.

Solution

Entry – a post with the intercom for the communication with the reception is placed on the island in front of the gate as well as a contactless card reader so drivers who have prepaid their parking could control the gate. Behind the passage, there are automatic road barriers of the parking system and the entry terminal equipped with a bar code card printer (for visitors), a contactless card reader (for prepaid parking) and an intercom.

Occupancy monitoring is performed via induction detectors, i.e. induction loops placed at entries and exits of individual storeys where the occupancy is monitored. The occupancy state is displayed at the main entry by the Vacant/Occupied sign and in front of entries to lower storeys where the number of remaining vacant parking spaces is displayed in the following way: the number of vacant parking spaces on the 2nd and 3rd underground storey is displayed on the 1st storey; the number of vacant parking spaces on the 3rd storey is displayed on the 2nd storey.

Card groups – parking spaces with specific numbers will be allocated to individual companies; drivers with prepaid parking or short-term visitors will have to use these spaces. The system allows the drivers who have prepaid their parking to enter the car park with valid cards; the entering must be followed by the vehicle's exit. For the companies whose number of vehicles exceeds the number of allocated parking spaces, the system software produces a group – if there is a vehicle above the allocated space limit trying to enter, the card will not permit the entry and, for the turning and exit, the driver will use a paper visitor card issued remotely by the reception after the communication via the intercom. This card will permit an immediate exit (within a predetermined time limit) without a validation at the reception. If the vehicle does not exit, the driver will be charged for parking. Subsequently, the system changes occupancy display information separately for each group. (The menu allows the users to be divided in up to 30 groups). Parking time limits and numbers of occupied parking spaces of individual companies are recorded by the system. This information is provided to the user in the form of reports.

Exit – the exit terminal is equipped with a contactless card reader (for prepaid parking) and a bar code paper card reader (for short-term visitors); it opens the exit barrier and the gate. The terminal is also equipped with an intercom.

Visitor parking – any visitor will always use the intercom. If the gate is closed, the reception will open it after a brief identification of the visitor. Simultaneously with the gate opening, the reception automatically unblocks the issue of a visitor paper card. The visitor takes the card and, the barrier opens. At the reception, the visitor is provided with the access system visitor card to be able to move around the centre. Upon the visitor's leaving, the relevant company employee confirms the termination of the visit by phone or on the paper card. The visitor will submit the access card at the reception and, subsequently, the reception staff will validate the paper card for the exit. The validation is always done for the company that has been visited. This company can be informed by a report about the number of company parking spaces that were occupied and for how long. The visitor will use the validated paper card for the exit. When this card is scanned by the exit terminal bar code scanner, the barrier and the gate open.

Chargeable parking – in case of unauthorized entry (without visiting any of the companies in the centre), the reception cannot validate the paper card – no company will confirm a visit – there is a charge for parking in the amount of CZK 100 per every started hour.

Server – the operates the system, provides information to the attending staff on the state of individual devices and allows continuous occupancy monitoring and adjustments, if necessary. The system is ready to be connected to the city parking guidance system.