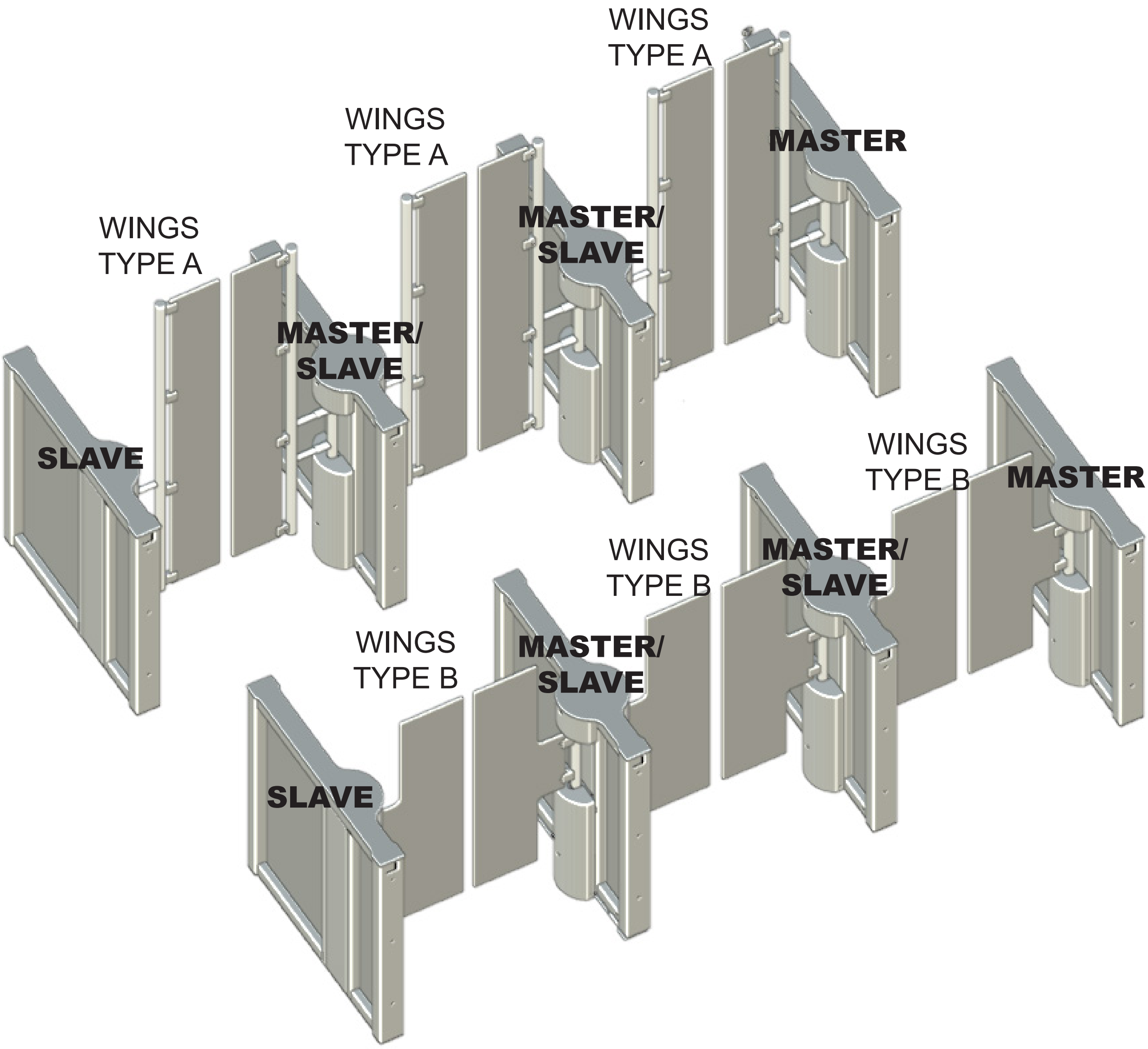
DEVICES - GATES

EN ENGLISH

Spis treści

DEVICES DESCRIPTION



PARAMETERS

PARAMETER	GATE MASTER /GATE SLAVE	GATE MASTER/SLAVE
Power supply voltage:	24 V DC	24 V DC
Maximum power consumption:	90 W	180 W
Minimum power consumption:	30 W	60 W
Current consumption at start-up:	3 A	6 A
Operation temperature:	0° to +50° C	0° to +50° C
Storage temperature:	-30° to +60° C	-30° to +60° C
IP protection rate:	IP 40	IP 40
Maximum operation humidity:	85 %	85 %
Wing opening/closing time:	~ 1 sec	~ 1 sec

RULE OF OPERATION

Two devices with MASTER and SLAVE modules create a passage section to assist pedestrian traffic control. The passage section is closed (locked for pedestrian traffic) or opened (unlocked for pedestrian traffic) by an electronic control mechanism based on signals received from external devices and a system of sensors. The device with a MASTER module starts sound signalling in case of an unauthorised personal passage attempt (movement detection). The device can operate in the following operation modes:

- NC mode (so called 'Normal Closed') – wings of devices remain closed until a signal from an external device is received (e.g. from a card reader, a coin acceptor); after receiving the signal from the external device, the wings perform a cycle of opening and closing when a personal passage is detected, or after a chosen time period, if there is no pedestrian traffic detection (no movement detection).
- NO mode (so called 'Normal Opened') - wings of devices remain open until an unauthorised personal passage attempt is detected (movement detection).

If a movement near the device wings is detected, the device starts sound signalling for safety reasons without the wings movement (closing).

A manual control for a device operator can be connected to the device to enable a passage of the disabled, people with luggage, children or people below 120 cm of height and people under the influence of intoxicants, among others, through the section.

A visual signalling (diode pictograms) informs about traffic directions being turned on and off within the passage section.

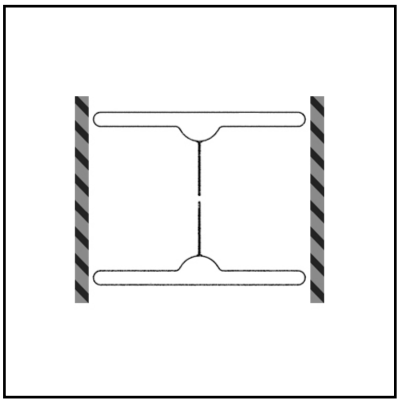
An operation algorithm of the control includes in an order in accordance with priorties:

1. Safety of use.
2. Durability and proper operation of the mechanical system.
3. Assisting pedestrian traffic control.

Detection of pedestrian traffic within the passage section is done based on signals from sensor optical.

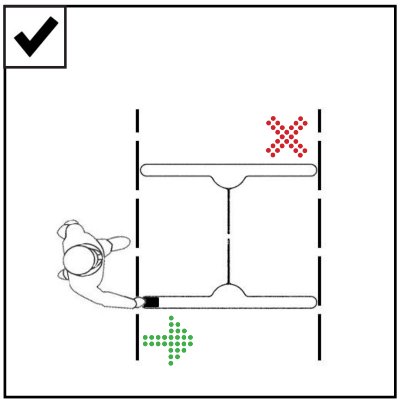
THE RULES OF PROPER AND SAFE USE OF DEVICES

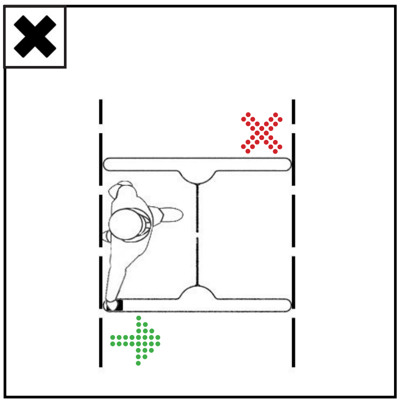
MARKING THE BOUNDARY BETWEEN THE AUTHORIZATION ZONE AND THE PASSAGE SECTION / ZONE



In order to properly and effectively use the device, the boundary between the authorization zone and the passage section / zone has to be marked, e.g. by sticking the warning tape to the ground, so that the person subject to authorization can independently determine that he / she is outside the passage zone (the detection zone of the sensor system).

AUTHORIZATION OF PASSAGE

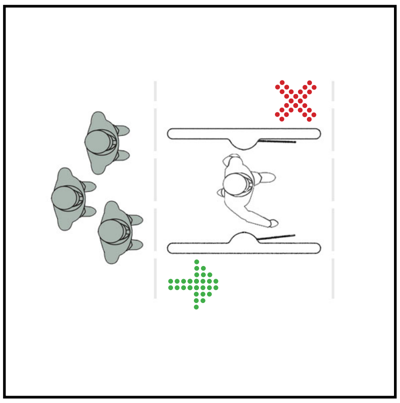


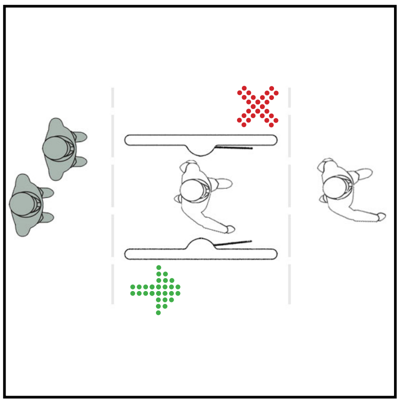


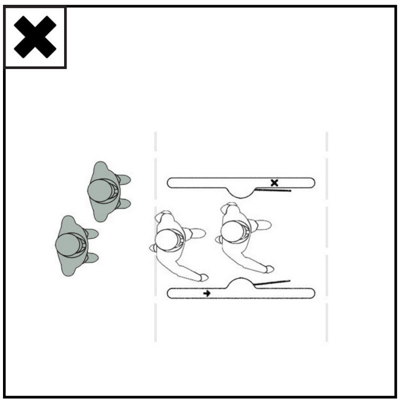
A person heading for the passage section / zone should, while authorizing his / her passage (e.g. by means of a card and an access control reader) should be located outside the zone / passage section (i.e. outside the scope of detecting the sensor system). The boundary between the authorization zone and the passage section / zone should be marked, e.g. on the ground with a warning line.

PASSAGE OF A GROUP OF PEOPLE

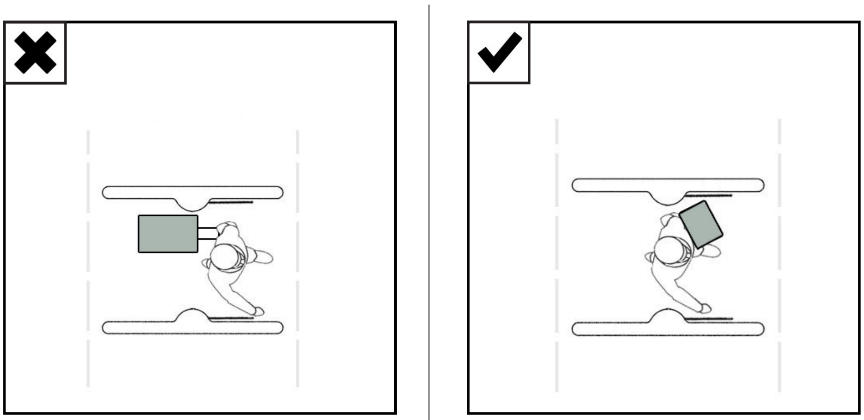
The passage of a group of people through the passage section / zone should take place individually. Only 1 person can be in the passage section / zone at the same time.





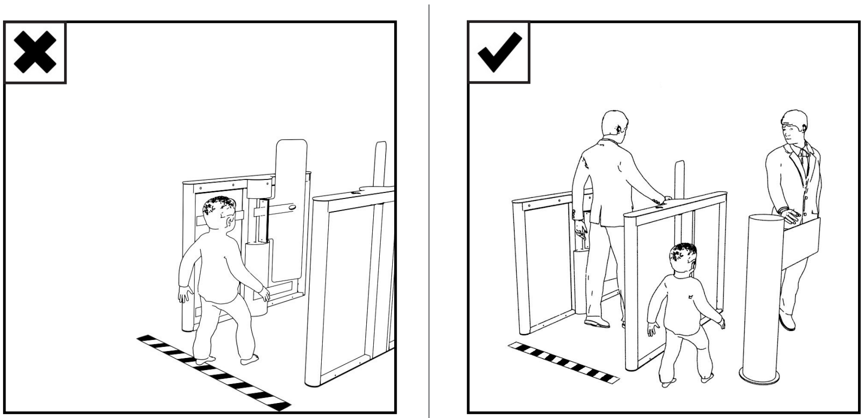


PASSAGE WITH LUGGAGE



The luggage moved or carried through the passage section should be kept close to the person. In the event that the luggage is not kept close to the person, the sensor system can interpret the transition as an attempt to pass without authorization and can initiate the blocking process of the passage section. Please note that in the case of the need to carry or move delicate items, e.g. unprotected glass, images, foodstuffs that can be damaged or deteriorted, the device, for the moment of moving or carrying such item, should be turned off or switched to the mode with disabled blocking of passage, i.e. free entry / exit

USE OF THE DEVICE BY CHILDREN



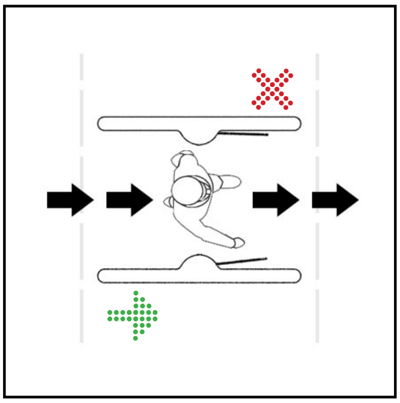
In order to have the device used by children, persons with a height below 100 cm, people with disabilities or carrying luggage, it is recommended:

1. Switch the device the the "emergency" mode during the passage

Warning: Children under 12 years of age should not use the device unaccompanied.

2. Use of non-automatic gates, e.g. the HR1 series

SAFE WAY OF PASSING THROUGH THE PASSAGE SECTION / ZONE



The passage of a person through the passage zone should take place continuously.
Do not stop, run, bend, crouch, jump, rotate or do things other than moving in the direction of the passage. You can only
pass when a green signal is displayed on the pictogram and the gate arms are tilted / opened. Do not enter or pass through the passage zone if a red signal is displayed on the pictogram and the gate arms / wings are closed or are in the process of closing or when the sound / warning signal has turned on. If you notice any abnormalities in the operation of the device, please stop using the device and notify persons responsible for the proper functioning of the device.

CONFIGURATION

The configuration of modes and operating parameters of the device takes place by means of a control module located in the MASTER gates (see section "Control module").

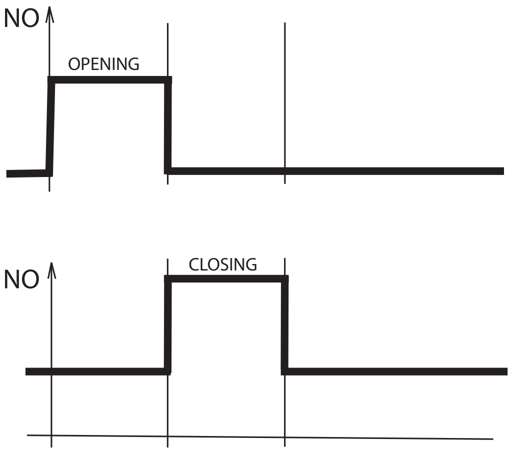
SENSOR SYSTEM

Please note: the sensors are designed to work in lighting up to 7,000 Lux and homogeneous lighting conditions (without sudden changes, e.g. sharp flashlight falling on the sensor).

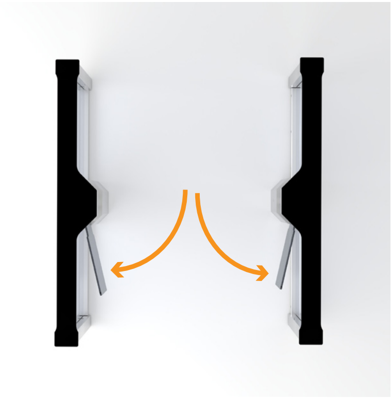
RETURN SIGNAL

The device provides a return signal informing about the opening and closing of the gate wings.
In order to configure the return signals, go to the electronics / controller configuration section.

Below you will find a default configuration

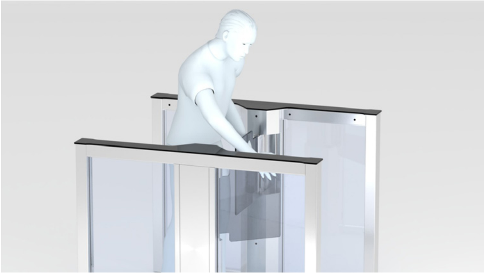


OPENING



CLOSING

EMERGENCY EXIT



In the event of a power failure, the device remains in an unblocked state. To open the passasge section, you have to manually open the gate wings. After the power supply is restored, the device will set the gate arms in the closed position. Please note that when when applying voltage to the device, you should remove any objects from the passage section that may disturb or damage the gate wing.
Please note: After launching the gate, the gate wings will move to close the gate wings. Stay out of the reach of the gate wings.

OVERLOAD PROTECTION

The mechanism of the gate wings is equipped with an additional overload protection, which slows down and stops the movement of the wings if an obstacle is detected on the wing or wings in the closing cycle and in case of attempts to immobilize the gate wing or wings during the opening cycle.

SOUND SIGNALLING

The sound signal is used to signal abnormal situations and some emergency gates. Switching on the sound signal is based on the analysis of signals from the sensor system and signals from external devices (e.g. card or ticket reader).

Below you will find a collection of the main examples of situations in which the device activates sound signal. In most cases, the sound signaling is switched off after the abnormal situation has ceased. With unusual or improper use of the devices, the sound signal may be activated and will be turned off after the abnormal situation or improper use ceases.

ATTEMPT OF PASSAGE WITHOUT AUTHORIZATION

ATTEMPT OF PASSAGE IN THE DIRECTION OPPOSTIE TO THE AUTHORIZED ONE

ATTEMPT OF PASSAGE WITH LARGE LUGGAGE

ATTEMPT OF PASSAGE WITH ANOTHER PERSON WITH A SINGLE AUTHORIZATION

ATTEMPT OF PASSAGE UNDER GLASS ARMS WITHOUT AUTHORIZATION

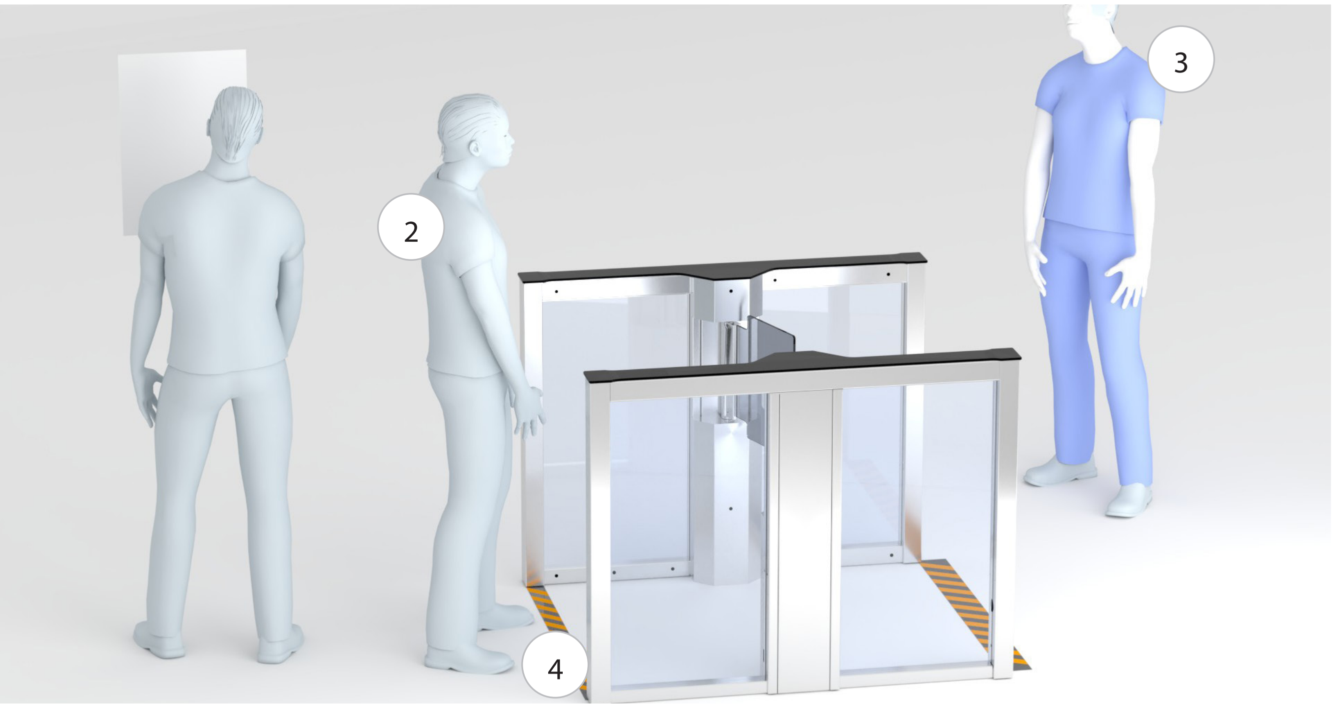
ATTEMPT OF PASSAGE ABOVE GLASS ARMS WITHOUT AUTHORIZATION

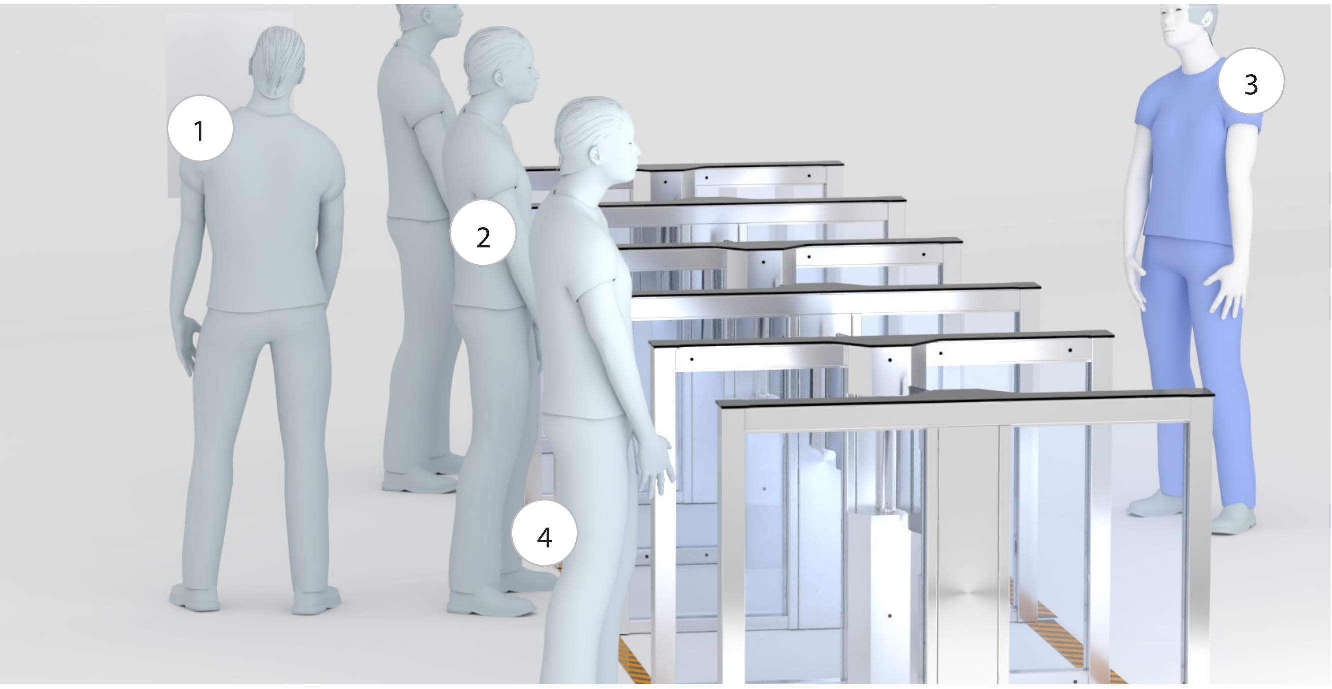
CORRECT PASSAGE INFRASTRUCTURE

The stand for personal passage equipped with a device or devices should, for reasons security, be equipped with instructions / regulations for the use of devices (1) (a brief example is included in this chapter), instruction manual for an external access control system that controls the devices, delineating the passage zone (yellow line defining the zone of the sensor system and movement of the device wings) to stop unauthorized persons from passing through (4).

The stand for personal passage should be supervised by a designated operator or operators of the station and devices. This operator trained in the field of operation (3) and use of devices should:

1. Supervise the correct use of devices by other people (2) and immediately respond in case of any irregularities on the part of the users or improper operation of the access control system or devices.
2. Provide help and train people who have problems with correct authorization by the access control system,
3. Assist in using the station to let pass through persons without a disposition for passage (e.g. the passage of children or people with a height below 100 cm, people with disabilities, people carrying large luggage or weights are treated as attempts to violate or pass through the passge section / zone by an unauthorized person, therefore the designated operator of the station / device should also have appropriate training in the relevant fields of property protection and security).





TERMS AND CONDITIONS FOR THE USE OF DEVICES

for people using devices to go through the passage section / zone of the device

These terms and conditions apply to the use of devices (gates). The devices are designed to support the control of passenger traffic by ensuring the fluidity in passage section / zone (tilting the gate wings) on the basis of external signals (e.g. from the access control system) and blocking the passage through the passage section / zone (closing the gate wings) after the passage of the person or in the absence of authorization (receipt of signals from external devices, e.g. an access control system).

In order to use the device properly and safely, please:

1. Follow the direction of personal traffic according to the specific pictograms,
2. Do not exceed the designated (e.g. with warning tape) sensor zones and arm movement before authorizing the passage,
3. Enter the device passage section only after receiving the authorization for the passage (the authorization method is specified by another document or training),
4. Pass through the passage section / zone in a continuous manner without stopping,
5. Pass through the passage section / zone without haste and do not perform activities other than moving towards the exit from the passage section / zone,
6. Observe the principle that only one person may be in the passage section / zone at the same time,
7. Contact the appropriate services for assistance if you do not know how to use the devices.

In order to have the device used by children, persons with a height below 100 cm, people with disabilities or carrying luggage, it is recommended:

1. Switch the device the "emergency" mode during the passage
   Warning: Children under 12 years of age should not use the device unaccompanied.

2. Use of non-automatic gates, e.g. the HR1 series

In order to use the device safely and correctly, it is forbidden to:

1. Stop, run, bend, squat, sit, jump, rotate, run, move in a way other than natural, carry another person or lead another person, for example, by the hand, when passing through the passage section / zone,
2. Use the device by more than one person at the same time,
3. Use the device under the influence of alcohol or other intoxicants,
4. Use the device by a child or a disabled person without the assistance of a designated device operator,
5. Use the device to move animals, bicycles, vehicles, prams, valuable or fragile items through the passage section,