OXGARD
ЗАЩИЩАЯ БУДУЩЕЕ

Installation guidelines and operational manual

K-13 electromagnetic swing gate

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ВОЗРОЖДЕНИЕ
ЗАВОД МЕТАЛЛОИЗДЕЛИЙ

Contents

1. Product purpose

Swing gate with electromagnetic release is used as a barrier and designed for the rapid release of the passageway in case of emergency.

2. Delivery set

Table 1. Delivery set

Item	Qty, pcs.
K-13 electromagnetic swing gate	1
Installation guidelines and manual	1
Datasheet	1
Magnetic key	
SORMAT PFGES10 (M10/60) anchor *	3
M10x50 DIN7991 hexagon screw *	3

*- optional

3. Basic specifications

Table 2. Basic specifications

Specification	Value
Dimensions (WxHxL), mm depending of passage width 600 800 1000	 724x145x1000 924x145x1000 1124x145x1000
Weight, kg *	from 13,2 to 15,0
Temperature range, ºC: - Operation - transportation and storage	 +1…+40 +1…+40
Atmosphere relative humidity, no more than %	80
Lifetime, years	8

* - depends on arm length

Table 3 Electrical specifications

Description	Swing gate
Supply voltage, V: - nominal - working	 12,0 10,8...13,2
Average current in standby mode * A	0,05
Average current operational mode * A	Up to 3,0

*- values mentioned at a nominal supply voltage

The manufacturer reserves the right to change the packaging, specifications and appearance without notice

4. Product design

All components of the gate (Fig. 1) are made of brushed stainless steel. The arm is attached to the stand with the use of mounting screws. Stand rotates in relation to the stationary base mounted to the floor. Floor fixation is concealed by base cover.

It is possible to install arms of different lengths to form the passage of 600, 800, 1000 and 1200 mm width. Fig. 2 shows the dimensions of the gate with 600 mm passage width.

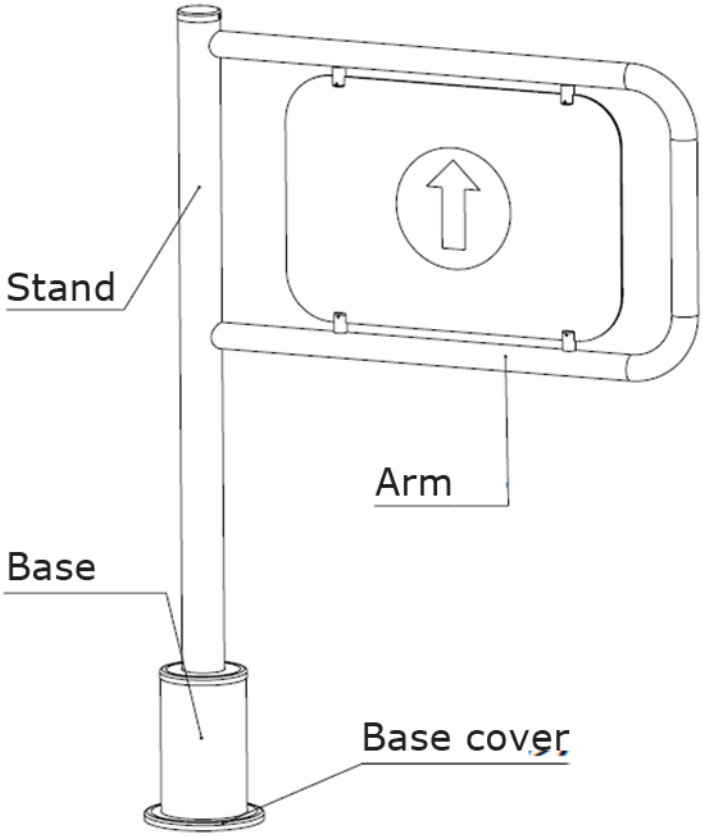

Fig. 1 General view

A control button is used as a gate control device (for example, a doorbell button).

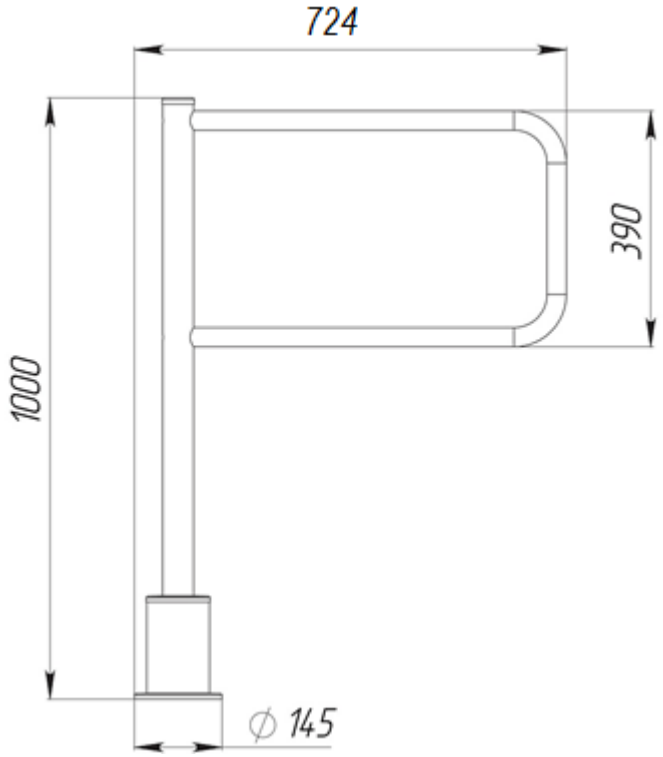

Fig. 2 Dimensions of the gate

The gate can be executed in 2 variants: right direction and left direction. Fig. 3 shows the direction in which the gate opens.

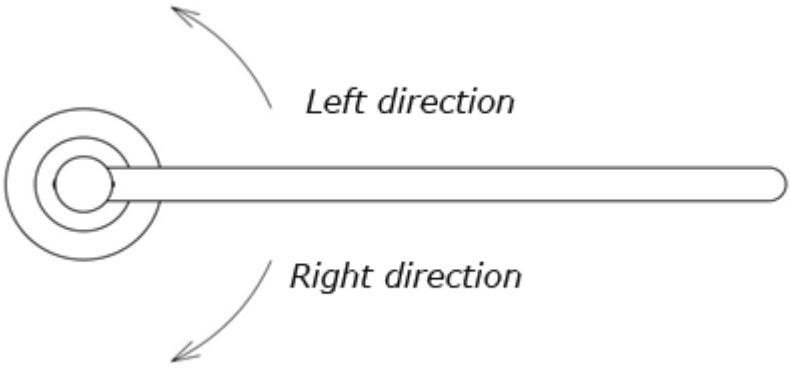

Fig. 3 Variants of the gate

5. Transportation and storage

Gate in its original packaging can be transported by air, covered by road and rail with protection from direct exposure to rain and dust without limitation range. Allow to stack boxes in 4 rows during transportation and storage if Euro pallets are used. Keep the gate in dry (no moisture condensation) heated places at temperatures within +1 to + 40 °C temperature range. Avoid vapors of acids, alkalis, and corrosive gases at the storage place. Storage of turnstile in the original package in a dry unheated premises or closed transport containers is permitted for short periods, no more than 3 days.

Before startup, the turnstile must be kept in a room with normal climate conditions for 12 hours after storage in unheated rooms.

6. Safety requirements

CAUTION! Failure to comply with the safety requirements specified in this section may result in damage to human life and health, total or partial loss of workability of products and (or) auxiliary equipment.

CAUTION! The producer disclaims any liability for damage to human life and health, total or partial loss of workability of products and (or) auxiliary equipment for non-compliance of the safety requirements specified in this section, as well as terminate the product warranty.

IT IS NOT ALLOWED TO:

- Set the gate other than in dry and heated places;
- Apply chemically aggressive cleaning detergents (as pastes and liquids) to the materials of the housing.

7. Installation of swing gate

CAUTION: The gate should be installed securely to avoid swinging and (or) overthrow during operation. In case of installation on the low strength floors - take action to strengthen the floor at the installation site.

Before checking operability of the gate carefully read this section of the Guidelines.

7.1. Required equipment

Tools used for gate mounting:

- electric perforator
- 16mm diameter carbide drill for drilling holes in the floor for anchors (recommended anchor - SORMATPFGES10 (M10/60))
- S6 hexagon wrench
- crosshead screwdriver
- plumb line or level
- steel liner to align the gate

7.2. Installation of swing gate

CAUTION! We recommend that you mark the mounting holes corresponding to flange holes when the arm is already installed.

7.2.1. Prepare a horizontal surface at the installation site of gate.

7.2.2. Open the box, unpack the product and check for completeness.

7.2.3. Install the arm of the gate with a set of screws. Make sure that the arm is securely attached to the stand.

7.2.4. Follow the layout and drill 3 holes of 16 mm diameter in the floor for anchors. Depth of the hole should exceed the length of the anchor for more than 5mm. Put the anchors into the holes.

7.2.5. Cable routing is carried out through a hole (Fig. 4) in the lower plate of swing gate. Cutting groove should be prepared.

7.2.6. Set the stand on prepared area (Fig. 4).

7.2.7. Align together the holes in the gate's base and anchors in the floor. Check the vertical installation in 2 planes, if necessary, use appropriate steel underlayers for proper installation of the gate. Fix the stand with three M10 screws, tightening them to corresponding anchors by using S6 hexagon wrench.

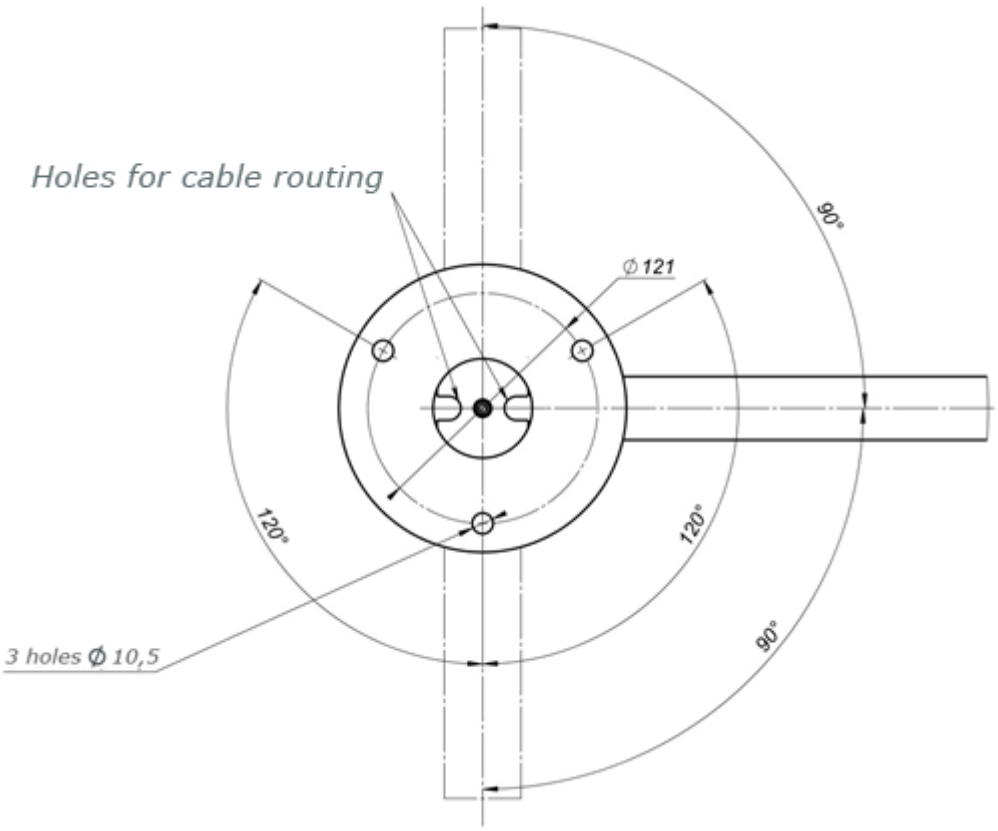

Fig. 4 *Linkage dimension*

7.2.8. Check the free rotation of the gate arm. To do this, unlock the gate with the magnetic key as shown in Fig. 6. The arm should be rotated in both directions.

8. Connecting swing gate

Connection scheme of power supply unit, control button and fire alarm system to the motherboard of the gate is shown in Fig. 5. The motherboard is located in the base of the swing gate.

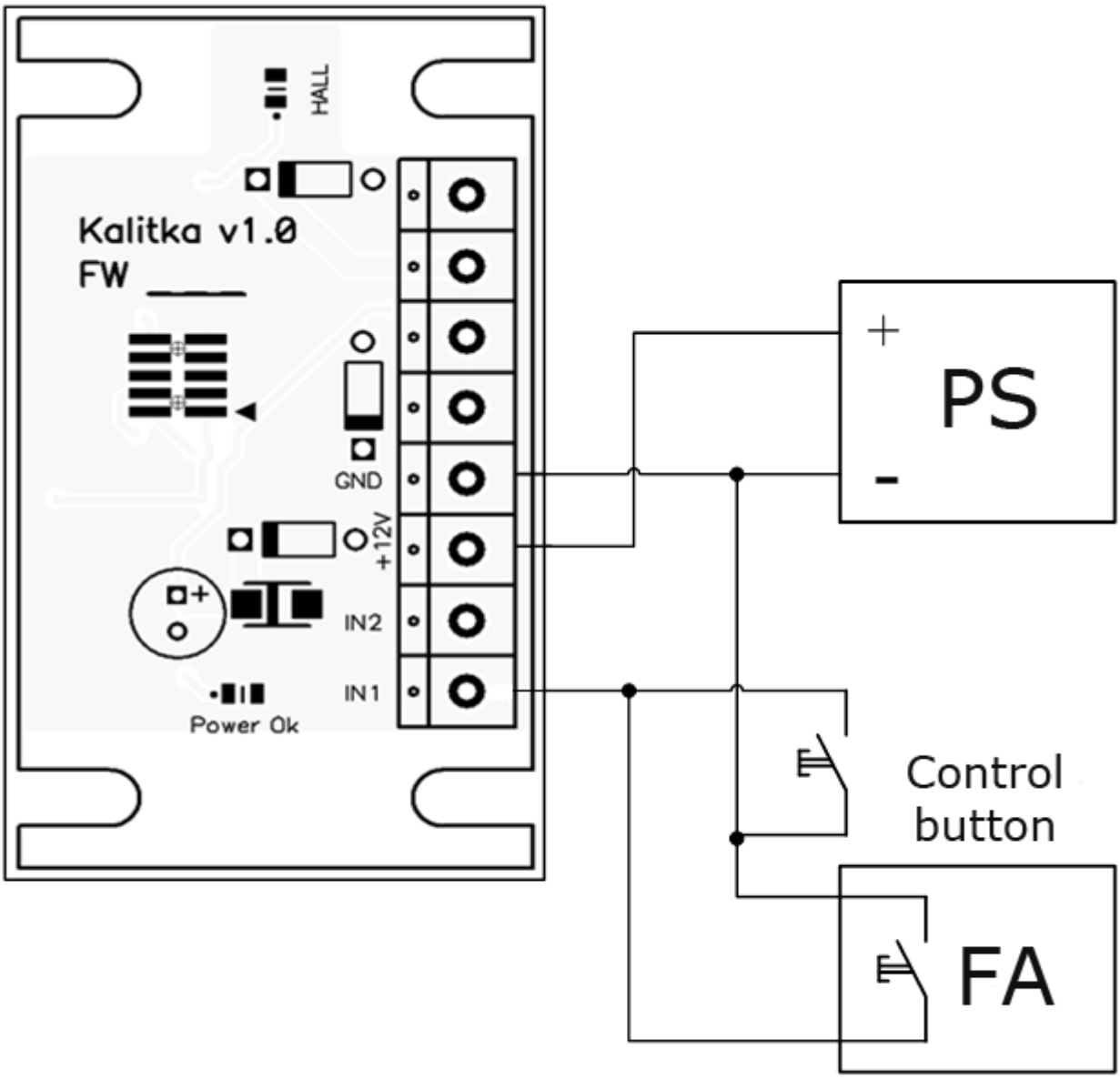

Fig. 5 General view of motherboard and connection scheme

8.1. Power connection

CAUTION! We do not recommend the use of pulse power supply units.

Swing gate is powered with 12V DC power supply unit. Power supply unit should be selected on the basis that the increase in the length of the supplied cable results in increase of the voltage drop. (The operating voltage range is shown in Table 3).

Install the power supply unit and the control button in a place with easy access for operator. Connect the cables according to scheme (Fig. 5). Make sure the cables are securely connected. (Control button is not included in the delivery set. For example, a doorbell button can be used).

9. Operation of the swing gate

Connect the power supply unit of the swing gate to electric network ~220V. Swing gate is ready for operation.

9.1 Operational modes

The gate is a normally closed (fail-secure) device. In case of power loss the closed gate remains closed.

The gate is opened with control button. When the button is pressed the arm of the gate opens passage in the set direction (depending on the variant). In order to unlock the arm put the magnetic key (1, fig. 6) on the top of the stand (2, Fig. 6) as shown on the picture and manually rotate the arm to the initial central position (“closed”).

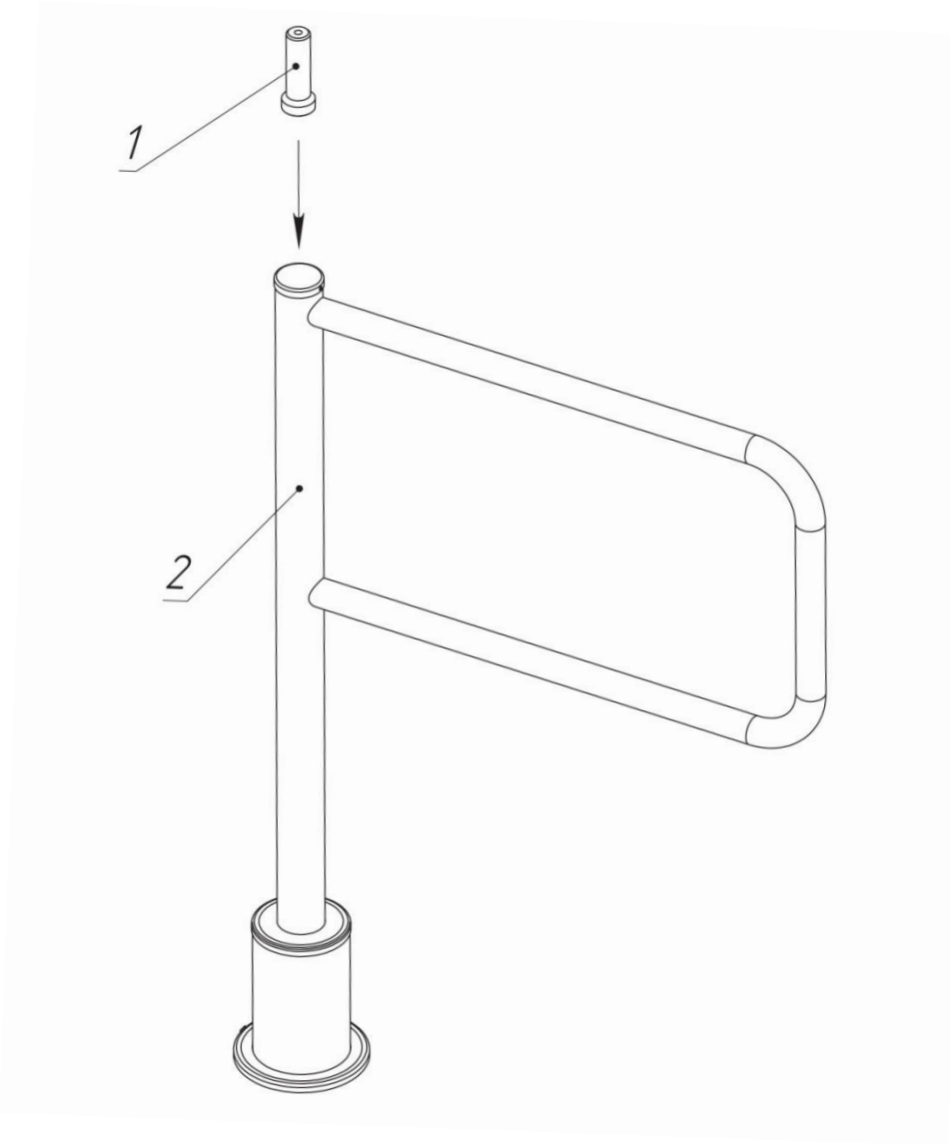

Fig. 6 Unlocking the gate

10. **Troubleshooting**

Table 4. Troubleshooting

Probable cause:	**Remedy:**
Power supply unit is connected, but the swing gate does not work	Check the connection cable
Control button does not work	Check the connection cable and its integrity

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