

OPERATING MANUAL

Technical Description. Installation Manual. Certificate.

PATENT FOR INVENTION

No. 0000000

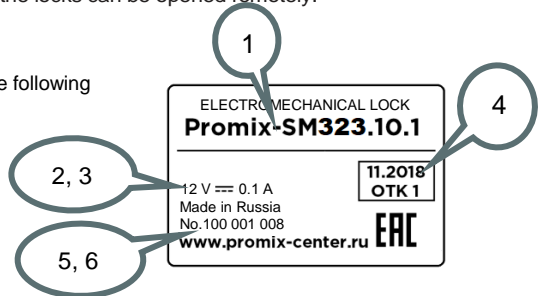
1. PURPOSE

Promix-SM323 series electromechanical locks with a hook-shaped locking mechanism (hereinafter referred to as locks) are intended to limit access to cells of luggage lockers (pickpoints), drawers for documentation storage, lockers and cabins in locker rooms of fitness clubs, swimming pools, schools, enterprises; the locks can be opened remotely.

2. LABELLING

The label attached to the lock body contains the following information:

1. Lock model
2. Nominal supply voltage
3. Nominal consumed current
4. Date of manufacture and QCD mark
5. Identification number
6. Manufacturer's website



An example of information layout on the label

Promix-SM323.1 X.1

Availability of built-in sensors:

1 – lock state sensor 3 - lock state sensor and door position sensor

Supply voltage:

0–12 V, 1–24 V

Design:

1 – normally closed

The color of the product is shown on the label attached to the box, after the product name. Series colors: **Silver, White, Brown, Black**. Other colors are provided optionally.

3. SCOPE OF DELIVERY

- | | |
|--|--------|
| 1 – Promix-SM323 lock | 1 pc. |
| 2 – Promix-AD.DB.21 latch | 1 pc. |
| 3 – Self-tapping screw 3.5x30 (with pressing disk) | 4 pcs. |
| 4 – Washer M4 (enlarged) | 2 pcs. |
| 5 – Self-tapping screw 4.2x14 (cup head) | 2 pcs. |
| 6 – Operation Manual | 1 pc. |

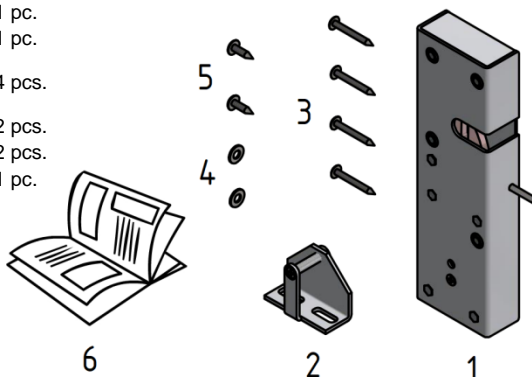


Fig. 1. Promix-SM323 scope of delivery

Check scope of delivery of the product when buying! After buying, the manufacturer will not accept claims related to incomplete scope of delivery.

4. DESIGN AND PRINCIPLE OF OPERATION

Promix-SM323 lock is produced in a normally closed design, i.e., it is in the closed state when de-energized and opens when supply voltage is applied.

The lock is mounted on inner surfaces of the locker transversely to the door and is operable in both vertical and horizontal positions. The counterpart (latch) is mounted on the door.

As the door is closed, the latch is inserted in the lock and becomes blocked therein. As supply voltage is applied, the lock deblocks the latch and pushes it with a built-in pusher, which allows to eliminate mounting of a handle on the door.

The spring-loaded pusher of the lock is connected to the lock state sensor.

Depending on modification, the lock is equipped with a door position sensor. The sensor is made in the form of a movable stem connected to dry contact.

5. TECHNICAL DATA

5.1 OPERATING CONDITIONS

The lock operation environment must be explosion-safe, free of current-conducting dust or gases that cause metal corrosion and destroying insulation of current conductors and electric elements, free of current-carrying dust or water vapor, and preventing ingress of water, steam, fuel and lubricants.

Climatic conditions of operation – Y3.1 as per GOST 15150-69 with extended temperature range:

- Ambient temperature: -30 to +50 °C;
- Relative air humidity: not higher than 98 % at 25 °C or lower temperatures without moisture condensation and hoar-frost formation;
- Installation indoors or outdoors excluding ingress of moisture, dust, dirt, etc. inside the lock.

5.2 TECHNICAL DATA

Modification	Promix-SM323.10.1	Promix-SM323.10.3	Promix-SM323.10.1-01	Promix-1323.10.3-01
Design	Right (installed on the right) Hinges on the left		Left (installed on the left) Hinges on the right	
DC supply voltage U, V	12±2			
Current consumed, A	0.4 (at 12 V)			
Supply pulse width (max.), s	0.5–3			
Minimum pause between pulses, s	5			
Built-in sensors	lock state sensor	lock state sensor door position sensor	lock state sensor	lock state sensor door position sensor
Maximum switching current of the sensor (DC), A:	0.2			
Maximum switching voltage of the sensor (DC), V:	24			
Sensor output signal type	“dry contact”			
Lock weight (max), kg	0.4			
Holding force (min), kg	500			
Initial latch pushing out force (min), kg	1			

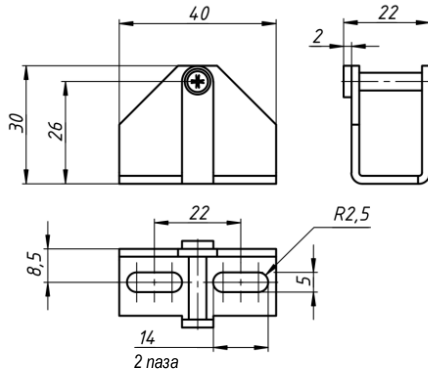


Fig. 2. Promix-AD.DB.21 latch overall and mounting dimensions

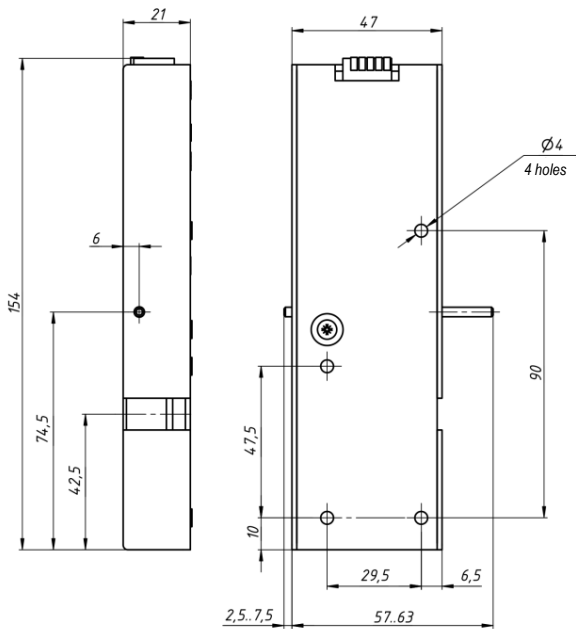


Fig. 3. Promix-SM.323 lock overall and mounting dimensions

6. INSTALLATION AND CONNECTION

6.1 LOCK AND LATCH MOUNTING

1. Mount the lock on a wall, at a distance of 10mm from the locker wall edge.
2. Connect the lock to the power supply
3. Insert the latch into the lock.
4. Test operability of the lock – as voltage is applied, the lock must push out the latch.
5. Fix the latch on the door.
6. Test operability in door closing.

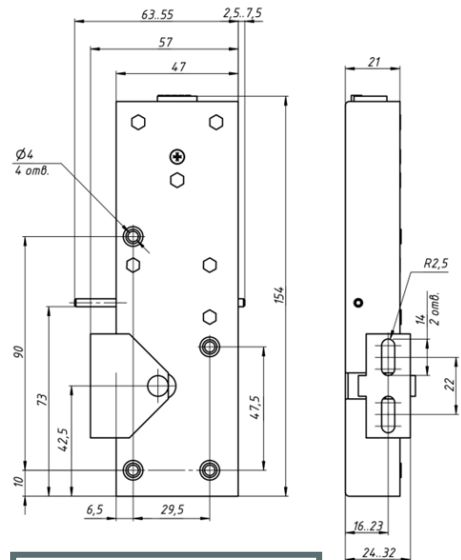
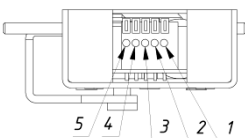


Fig. 4. Lock and latch mounting

6.2 CONNECTING PROCEDURE

The lock operation is controlled by supplying and blocking power. For this purpose a controller (control board) or a switch (button) is generally used. The controller is mounted in accordance with its certificate.



Purpose of terminals:

- 1–2 – lock power supply;
- 3 – normally open contact of the lock state sensor;
- 4 – common contact of the sensor;
- 5 – normally open contact of the door sensor;

Polarity of power supply wire connection does not matter.

See operating voltage range in cl. 5.2. Avoid supply of increased voltage.

Ensure a reliable electric contact. To prevent short-circuit, insulate places of connection.

7. FEATURES OF INSTALLATION AND OPERATION

- 1) The possibility of using the lock and the place of installation (outdoors or indoors) are determined by **the installation organization** on the basis of the design features and the lock operating principle, method of installation, room criticality level, the purpose of the access restriction regime and other factors (the presence of security providers, video surveillance, etc.).
- 2) To prevent deformations of the door due to attempts to open the door with the lock closed, it is recommended to mount the lock in the area of the door handle.

8. POTENTIAL MALFUNCTIONS

Malfunctions and problems	Remedies
The lock does not fix the latch (the door is not fixed in the closed state).	Check the absence of supply voltage. Adjust the latch position so that the latch, with the door closed, enters the lock slot until the catch hook operates.
The latch does not enter the lock slot, or enters with friction.	Restore position of the door that changed in the course of operation. If restoration is impossible, adjust the latch.

9. MAINTENANCE

Maintenance of the lock is performed at least once every two months and includes:

- Visual inspection of the lock to check the reliability of the fastening. If necessary, tighten the fasteners of the lock and the latch.
- Checking the proper position of the latch.

The lock does not need lubrication!

10. STORAGE AND TRANSPORTATION

Prior to putting into operation, the locks must be stored in the manufacturer's packing, in rooms with an ambient temperature of -30 to +50 °C and a relative humidity not higher than 98 % at 25 °C in compliance with storage conditions as per GOST 15150-69.

Locks transportation conditions must comply with group C as per GOST 23216-78 in terms of exposure to mechanical factors, and Ж2 as per GOST 15150-69 in terms of exposure to climatic factors.

11. SAFETY REQUIREMENTS

The design of the locks ensures safety of personnel involved in mounting and maintenance.

Due to low DC supply voltage, the products correspond to class III as per GOST 12.2.007.0-75 and are electrically safe.

Fire safety of the locks is ensured by use of non-combustible or hardly combustible materials, and low supply voltage.

12. DISPOSAL

The product is not hazardous for human life and health or for the environment; disposal after its service life is performed without taking any special measures for environment protection.

13. WARRANTY LIABILITIES

The manufacturer, ETC PROMIX LLC, warrants conformity of Promix-SM323 locks to requirements of current Technical Specifications provided that transportation, storage, installation and operation rules established in this Manual are followed.

The operation warranty period is 12 months from the date of sale but not longer than 18 months from the day of acceptance by the manufacturer's QCD.

Within the warranty period ETC PROMIX LLC undertakes to repair defective products free of charge. Expenses for transporting the product to the place of repair and back will be borne by the Buyer.

Warranty liabilities do not cover any defects and damages caused by:

- Improper maintenance by the Buyer;
- Use of the product under conditions that do not comply with the operation requirements;
- Mechanical damages or disassembly of the products by the Buyer;
- Non-observance of the transportation and storage rules.

Faulty products are accepted for repair only together with the latch, on the obligatory condition that factory labels are retained on the product body.

On expiration of the warranty service period, the manufacturer provides after-warranty service on a contractual basis.

To improve product quality the manufacturing plant reserves the right to make modifications to the product design without prior notice.

14. ACCEPTANCE AND PACKING CERTIFICATE

Promix-SM323 electromechanical lock in quantity of ____ pieces (1 pc. by default) with the manufacturing date and QCD mark on the body, was manufactured and accepted in compliance with Specifications, obligatory requirements of state standards and valid technical documentation, recognized as fit for operation and packed by ETC PROMIX LLC.

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