SHERIFF-4

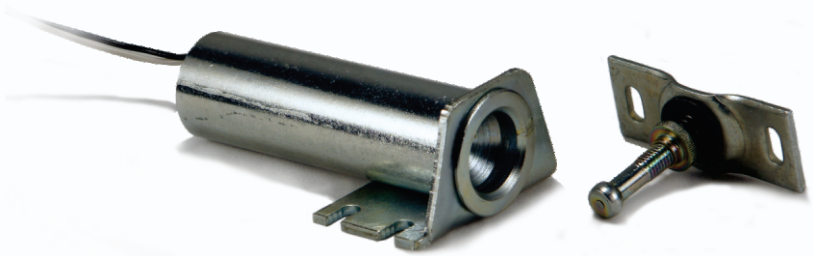
ELECTROMECHANICAL LOCK WITH PUSHER

Is unique

12V 24V* | 300 kg | NO NC | door sensor *

* - by order

INVENTION PATENT №2474661



Purpose

It is designed for access limitation in trade or office furniture, cells of cloak-room, locker room wardrobes, fire cabinets, etc., and can be opened by voltage supply or voltage removal (it depends on design), with a controller of access control system (ACS), audio or video door entry system, code-displays, common button or switcher. The lock provides an opportunity not to install doorknob because in case of opening the lock it opens door a crack.
It is possible to use the lock for holding the door opened/closed.

Model	Design	Color
Sheriff-4 (NO)	Normally opened	Chromized zinc
Sheriff-4 (NC)	Normally closed	Chromized zinc

It is possible to produce NO-lock with integrated door positional sensor, which shows door status (opened or closed) by a special order.

Mounting and operating principle

The lock is installed on immovable surface. Counterpart (locking point) is installed on the door. Closing of locking point happens when it has entered in lock hole. A distance between inside surface of the closed door and the lock has to be 10-11 mm, which guarantees door free movement within the range 3-4 mm when the lock
is closed. NO lock is opened, when control voltage isn't supplied, and NO lock is closed, when control voltage is supplied.
NC lock is closed when control voltage isn't supplied and NC lock opens when voltage impulse is supplied.
When lock opens, it throws out ("ejects") locking point which leads to opening the door a crack. The lock operates even in case of "preload" of the door, i.e. there is external opening force goes into the door (e.g. somebody is pulling the door with doorknob)

Features

- It throws out the locking point while opening, which leads to opening the door a crack
- The lock operates even when an external opening force goes into the door
- There is perfect balance of size, retention force and current consumption;
- With a view to ensure normal lock operating in case of non-axiality between the lock and a locking point (e.g. because of improper assembling and door whipping in operation), the locking point is made movable and self-adjusting.

- All lock's components have anti-corrosive coating (C6, C6Hr).
- It doesn't need preventive maintenance and using grease during lifecycle;

Usage environment

resistance to climatic factors influence UHL2, according GOST 15150
(during use of lock under roof or indoors where variances in temperature and wetness incidentally differ from variances outdoor; absence of direct impact of sun radiation and atmospheric precipitation)
- free air temperature: -40…+50°C
- atmosphere relative humidity: less than 95% at a temperature of +35°C and less, without damp condensation and snow formation;
- installing indoors or outdoors for providing defense against ingress of moisture, dust, dirt, etc.

Contents of delivery

Electromechanical lock	1 piece;
Adjusting plate	1 piece;
Alignment	1 piece;
Tap screw M3x8	2 piece;
Screw 3,5x15	2 piece;
Self-locking nut M3	2 piece;
Washer	2 piece;
Maintenance manual	1 piece;

Specification

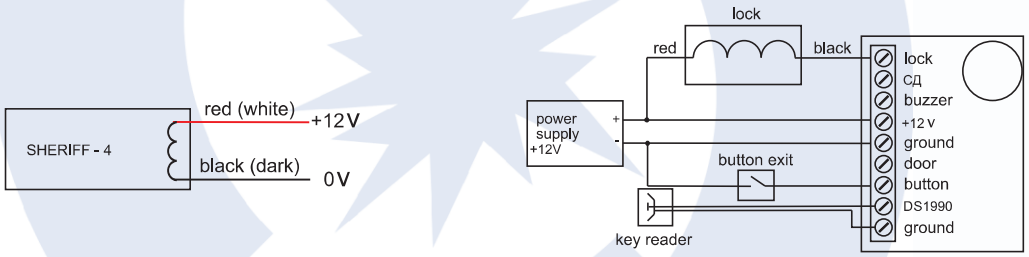
	NC lock	NO lock
Locking point force retention, kg	300	300
Initial locking point rejection force, kg	0,7	1,5
Maximal external opening force (door “preload”), before opening, kg	1,5	2,5
DC source voltage, V	9-15	12-14
Source voltage impulse duration, s	0,5-3	Not defined
Duration between source voltage impulses, s	15	Not defined
Current consumption (with 12V), A	0,35	0,11
Lock weight, kg	0,15	0,15
Wire length, m	0,13	0,13
Possible adjustment	Locking point rod lengths (from 29,5 to 33 mm); Automatic locking point alignment in latch hole;	

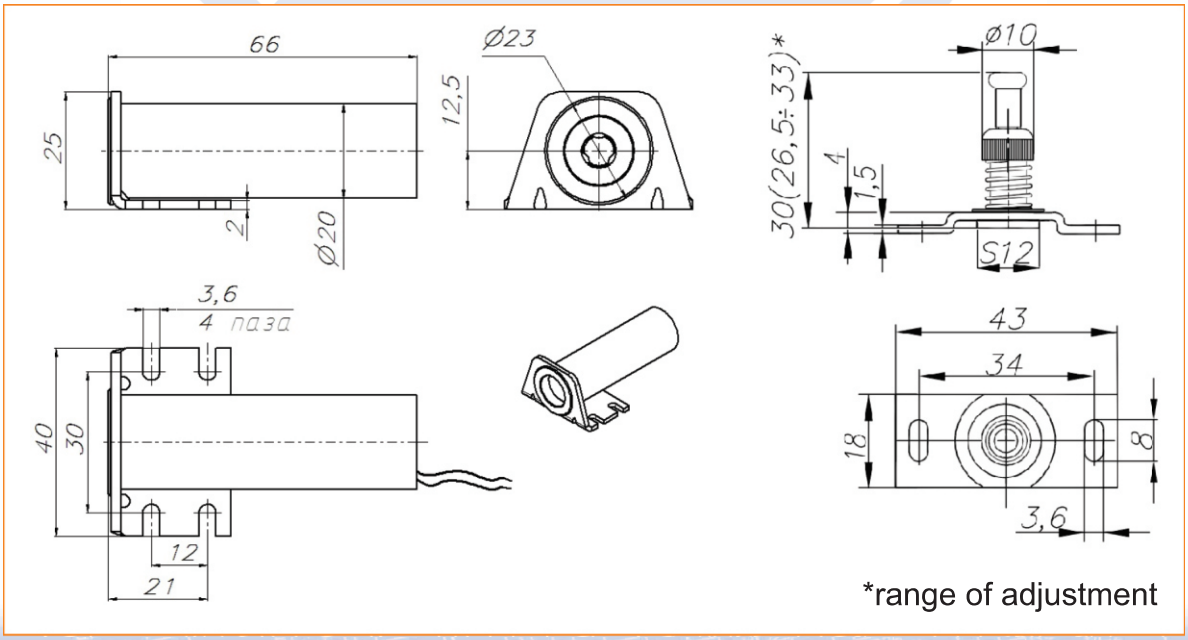
Locks “SHERIFF-4” are serialized and have code certificate GOST

Wiring

Unblocking of NC locks will take place when impulse of control voltage is supplied; for NO locks – after voltage removal.
It is necessary to have power supply and ACS controller for operating .

Connection diagram of “Sheriff-4” lock to controller (By the example of controller JSB-CL002)





*range of adjustment