

DESCRIPTION

Applications:

- Emergency exits
- Intensive passage (access control)
- Recommended for:
 - ✓ Standard doors that does not require security mode
 - ✓ No encroachment
 - ✓ Push doors, pull doors, back and forth doors.



Functional features:

- Electromagnetic lock and bolt retractable, 2 states, with positive safety top of door
- Reset by electromagnet with plunger
- External visualisation of the various states of the lock by leds
- Status signalisation : safety, standby, position of the leaves, auto-protection of the cabinet

Main features:

- Dual voltage lock 24 V and 48 V nominal (depending on the voltage, the lock adjusts its operation)
- Overall lock size (W x H x D)
 - 1 leaf lock: 230 x 65 x 75 mm
 - 2 leafs lock: 500 x 65 x 75 mm
 - Strike : 230 x 40 x 75 mm
- Lock weight (lock + strike): 3,5 kg (1 leaf) / 7 kg (2 leaf)
- Standard color: RAL 9010
- Protection index: IP 42
- The lock is protected by anti-vandalism screws (screwcap opening and associated key provided in the package).

ELECTRICAL FEATURES

	TENSION NOMINALE	INTENSITE NOMINALE	TOLERANCES
Operating supply	24 / 48 V	500 mA / 250 mA ⁽¹⁾	20,4 V < U _n (24V) < 28,8 V 40,8 V < U _n (48V) < 57,6 V
Command supply	24 / 48 V	10 mA / 5 mA ⁽¹⁾	20,4 V < U _n (24V) < 28,8 V 40,8 V < U _n (48V) < 57,6 V
Position contact	Free of potentiel (Com.No.Nc.)	1 A / 24 V 0,5 A / 48 V	
Rebate contact	Free of potentiel NO = no striker NF = with striker	250 mA / 24 V 125 mA / 48 V	

The DS3000 lock is a safety equipment. The 24 or 48V power supplies associated with the lock must be adjusted and regulated like.

The range of application of the lock is of -15% / + 20% from the nominal voltage (24V or 48V continuous).

(1) Values to be multiplied by 2 for 2 leafs model

REGULATIONS

This lock for emergency exit is conform with the standard NF S 61-937 and is associated to the article CO46 of the establishment open to the public regulation:

- a) Each door must be equipped with electromagnetic lock conform with the current standards for this application.
- b) The equipped doors can only be triggered according to one of the two following principles:
 - By a manual command device (example manual call point) with the function of switch inserted on the line of command placed near the equipped exit.
 - By an exit monitoring device complying with the standards applying to it with the delay times of $T1 = 8s$ and $T2 \text{ max} = 3mn$.

The lock must be powered on a very low security voltage according to the standards and the norm NF-C-15-100 (France).

LOCK INSTALLATION

The DS3000 must be installed as far as possible from the hinge of the door.

The lock is placed:

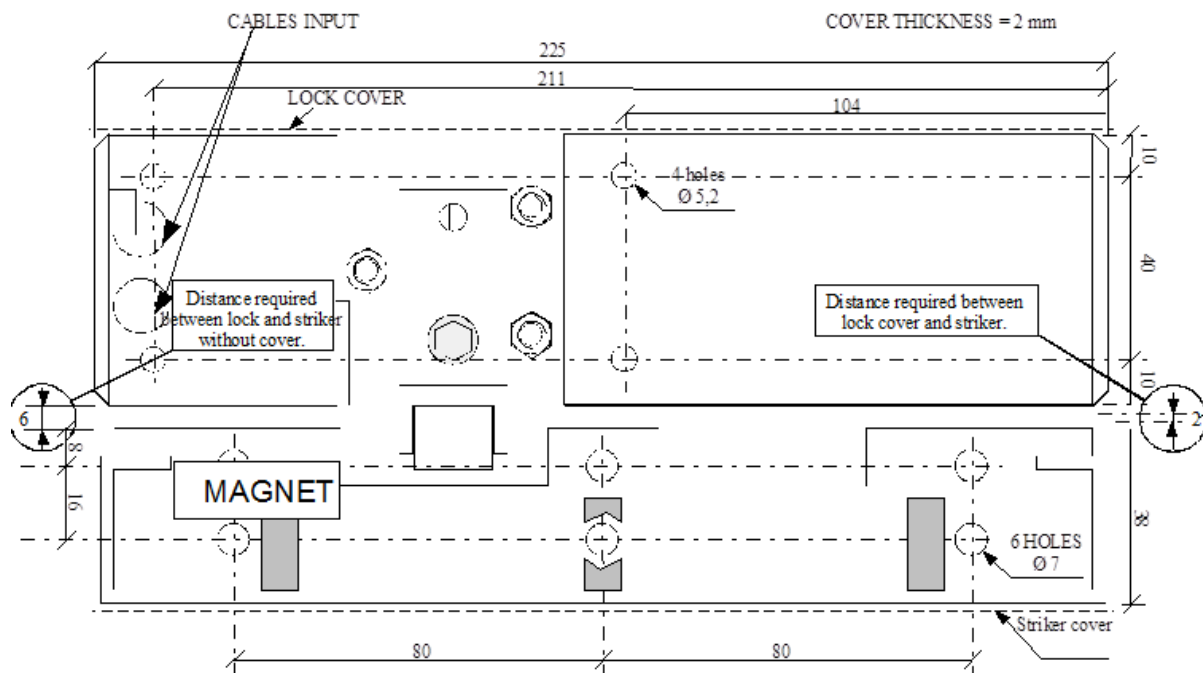
- Either applied to the wall and must be very close to the door frame
- Either applied under the wall with the fixing square accessory. Option, see below.

The strike is placed on the door and must be very close to its higher part. In order to have an optimum locking:

- the axis of the lock bolts must correspond with the axis of the “V” of the strike,
- a distance of 2 to 3 mm is necessary between the top of the strike and the lock cover’s bottom.

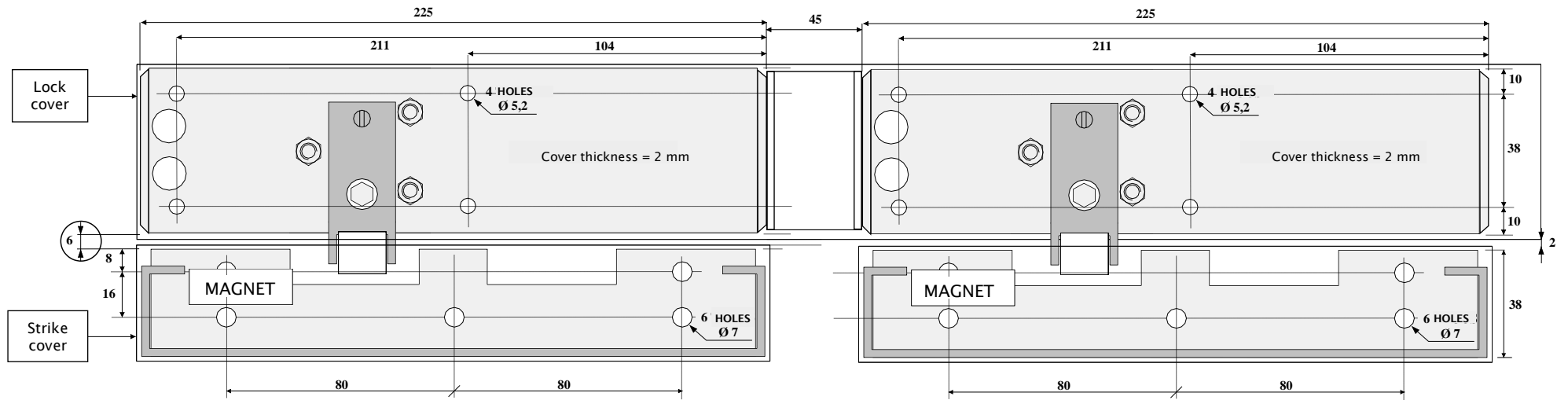
PLAN FOR FIXING THE BASE PLATE AND BRACKET LATCH STRIKE (IN MM) FOR 1 LEAF LOCK

The screws are not provided. It must be adapted to the supports to which the locks, strikes and installation accessories will be attached.

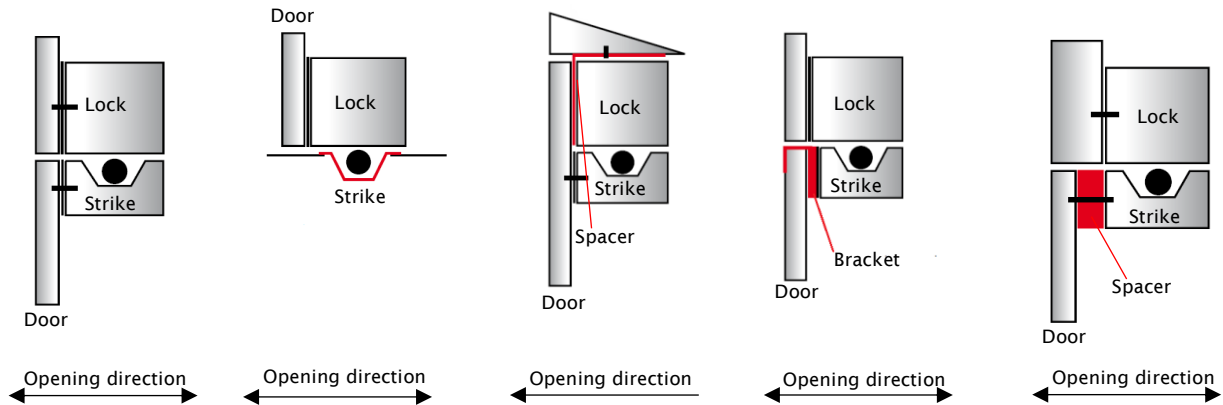


PLAN FOR FIXING THE BASE PLATE AND BRACKET LATCH STRIKER (IN MM) FOR 2 LEAFS LOCK

The screws are not provided. It must be adapted to the supports to which the locks, strikes and installation accessories will be attached.



FIXATION MODE ACCORDING TO SUPPORT



STANDARD LAYOUT
The 2 mm separation between the strike and the lock allows an optimum locking

LOW POINT LAYOUT
In addition to the high point, the low point optimizes the door resistance

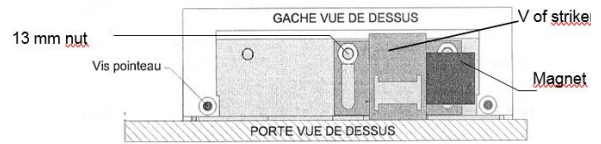
UNDER HEADER LAYOUT
The lock must be placed 2,04 m minimum above the ground

GLASS DOOR LAYOUT
In this case the bracket is fixed with glue type « Araldite ». on a glass door of 10 mm thickness max.

LAYOUT WITH HOLD
In the case where the setting of the strike (30 mm) is not enough. It is possible to add a spacer to get a max. setting of 55 mm

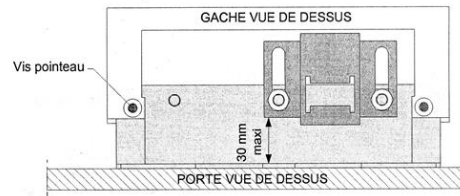
COMPENSATION OF THE GAP BETWEEN THE DOOR AND THE DOOR FRAME

WITH NO SETTINGS



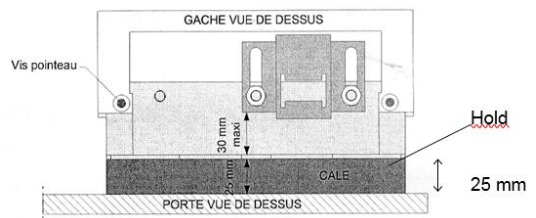
WITH ADJUSTMENT + 30 mm

The V of strike must be in the axis of the descent of the lock bolt. To do this the 2 elements constitutive of the strike allows to adjust it in a depth of 30 mm. Unscrew the 2 screws of the cover, take off the cover and unscrew the two nuts of 13 mm allowing slide the set « V + magnet ».



**WITH ADJUSTMENT + 30 mm + HOLD 25 mm
TOTAL = 55 mm**

The adjustment can go until 55 mm by inserting a hold of 25 mm thickness under the strike.



Note : When the distance between the lock and the strike is too high (>4 mm) one or several hold of 1mm thickness can be inserted under the set « V + magnet »

CONNECTION OF THE BOARD DS3000

The lock must be powered by a very low safety voltage 24 Vdc or 48 Vdc.

Its power up is separated by an operating power supply and a command voltage.

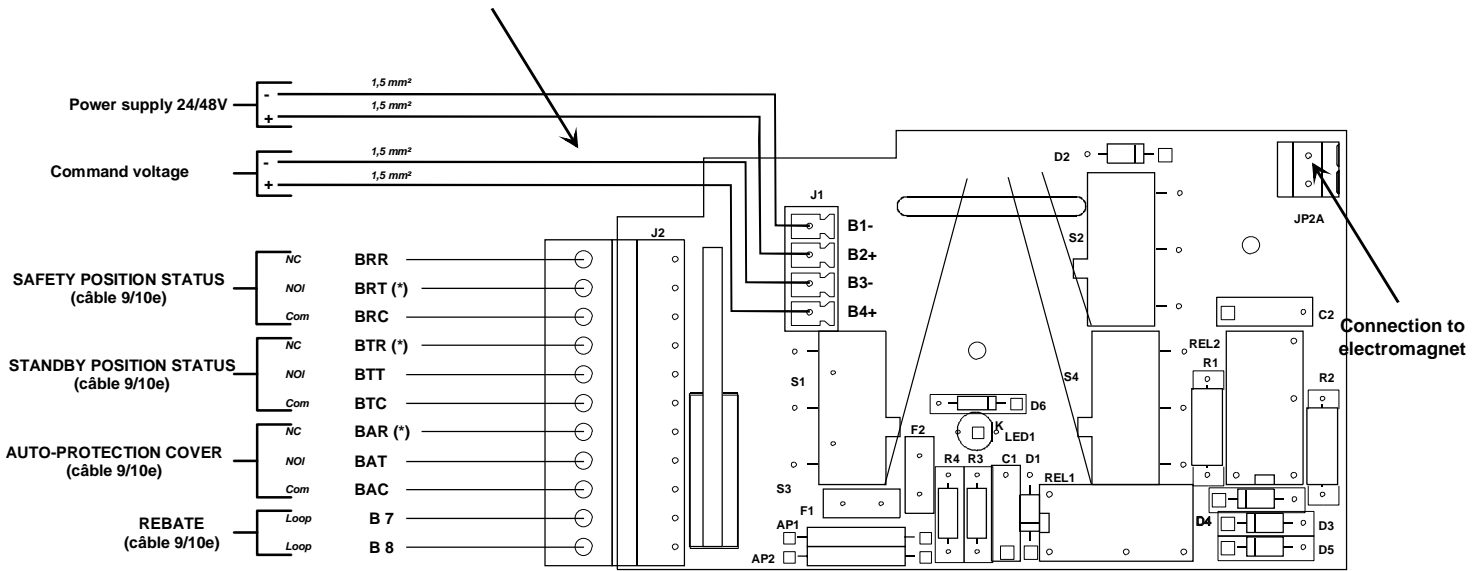
The power supply must be permanent and the command voltage ensures the locking and unlocking of the lock.

In return the lock can make available the following information:

- bolt in (safety position)
- bolt out (standby position)
- strike position (door open)
- cover auto-protection.

For the power supply and command cables, a section of 1.5 mm² minimum (rigid end) or 1 mm² (flexible wire) is recommended. The real section depending on the distance between the power source and the lock.

The other cables linked to the signaling are of the type SYT1 x pair, section 8/10th



(*) :Active contacts "unlocked lock" and "Closed cover"

Board connection (1 leaf model)

Note : for the 2-leaf model, connect 2 boards

FIXING CABLES

