MS - Access lock

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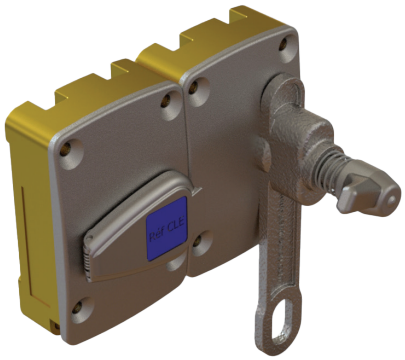

The MS access lock is a designed locking system for swinging and sliding door accesses.

This lock is made of aluminium bronze, which makes it ideal for use in harsh or corrosive environments and intensive use. It is modular and available with up to 4 key entries and a latch.

Typical industries that use the MS access lock are the chemical, pharmaceutical, mining, steel, metallurgical, railway and power generation industries.

Trapped Key Interlocks

INDUSTRY

ENERGY

RAILWAY

USAGE

The MS Access lock should be used to provide safe access to hazardous areas.

The MS Access lock can be used with a single key for access hatches or with a minimum of two keys for access doors where the use of a lockout key is essential (to prevent accidental lockout).

The MS Access lock is not designed to secure access to a safe, external access to a building, for doors or access gates.

INSTALLATION

A safety lock must be fitted with appropriate fixings.

Important:

To prevent unauthorised removal, the lock must be fitted using rivets or M5 stainless steel security screws (washers, nuts and screws).

Installation must be carried out by a competent and qualified person.

MAINTENANCE

Periodic visual inspections should be carried out by the Facility Manager or Safety Manager to ensure that there is no distortion or corrosion/erosion/acid build-up and that the lock marking plate is clearly legible.

Do not lubricate the lock cylinder with oil or grease.

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TECHNICAL DATA

Weight	Starting at 1,54 kg (for 1 key entry and 1 latch entry)
Material	- Mechanical: Aluminium bronze - Cover: 304 stainless steel - Flip cap gasket: Cellular Silicon - Marking plate: Aluminium - Riveted plate (Brass rivets) or glued (Acrylic - Loctite AA330)
Temperature rating	Currently being evaluated
Salt spray tolerance	Currently being evaluated
Watertightness	Currently being evaluated
IK rating	Currently being evaluated
Vibrations	Currently being evaluated
Retentive strength	Currently being evaluated
Lifespan	Currently being evaluated
B10d	Currently being evaluated
DC	90%
Compliance	- CE Marking Directive 2001/95/EC - Machinery Directive 2006/42/EC - Low Voltage Directive 2014/35/EU (with a switch)
ROHS	Certificate available on our website, Resource Centre section
REACH	Certificate available on our website, Resource Centre section
Conflict Minerals Declaration	Certificate available on our website, Resource Centre section

OPTIONS

- 1 to 4 key entries
- Switch 2NC-2NO (standard)

APPLICATION

The system includes a RTK key swith to control machine control circuit and a MS access lock for entering the hazardous area. Under normal machine operation (motor powered), the power key A is trapped in the RTK and the access doors to the hazardous area are closed and locked.

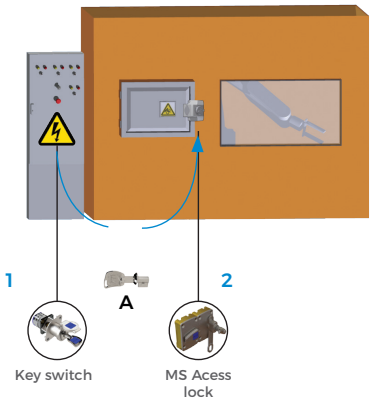
To access the hazardous area:

1. The operator releases the isolation key A from the RTK, thus cutting off the power to the machine.

2. The isolation key A is then trapped in the MS access lock releasing the latch allowing access to the area.

As long as the access to the area is open, the isolation key A is trapped in the access lock. The machine cannot be restarted with the door open.

3. To put the machine back into services, the operator follows the same steps in reverse order.



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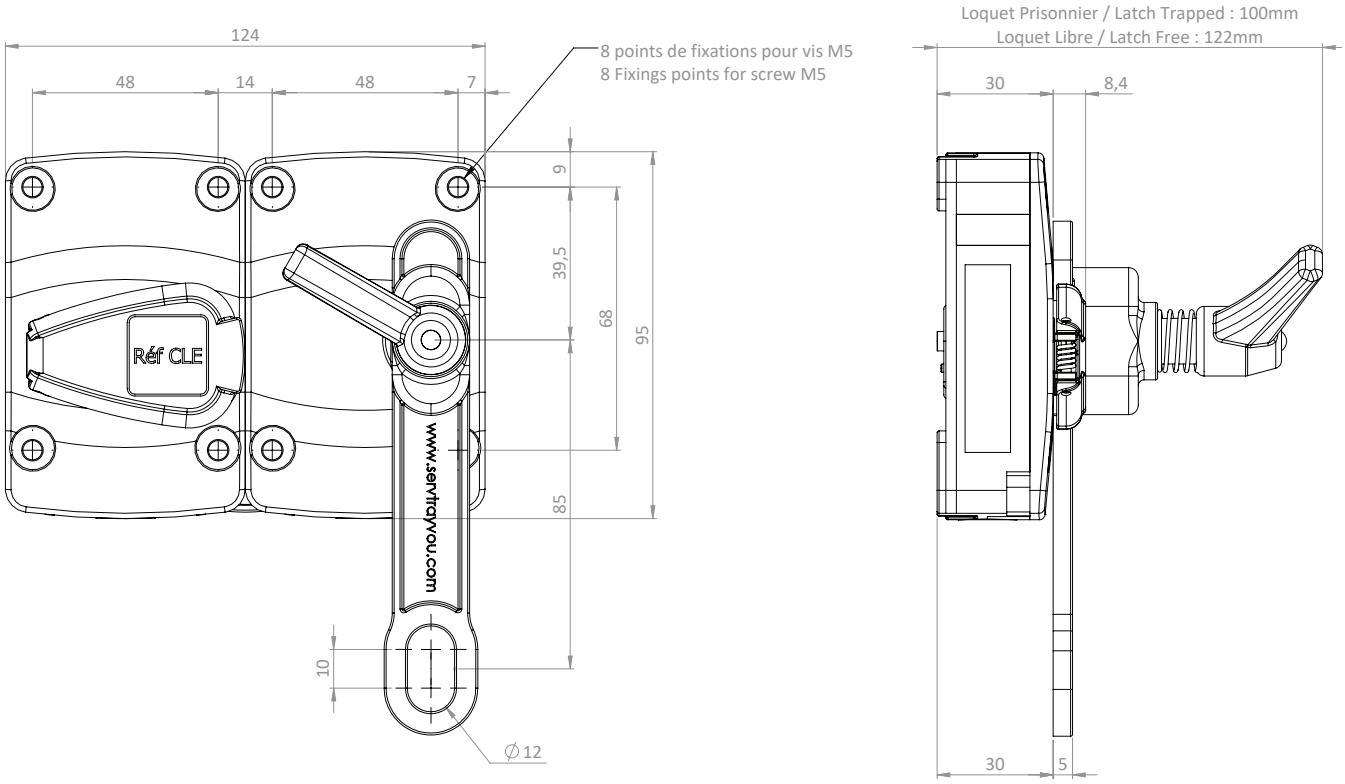
DRAWING

Dimensions: in mm

Note: For a safe mounting, use rivets or self-tapping screws.

MS access lock with one key entry



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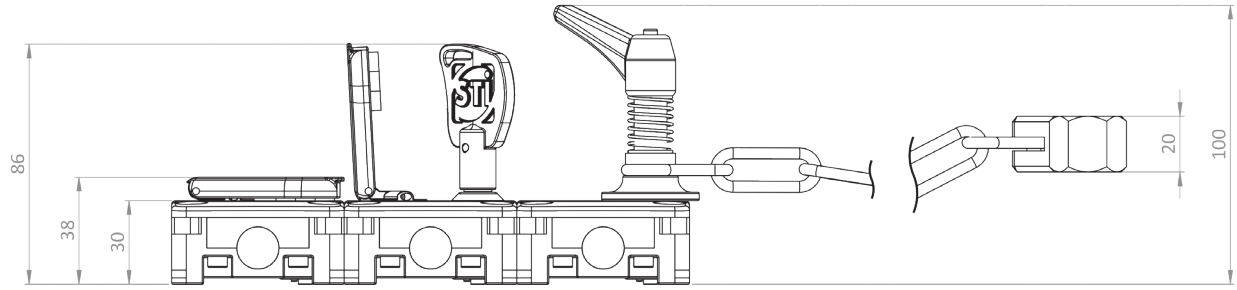
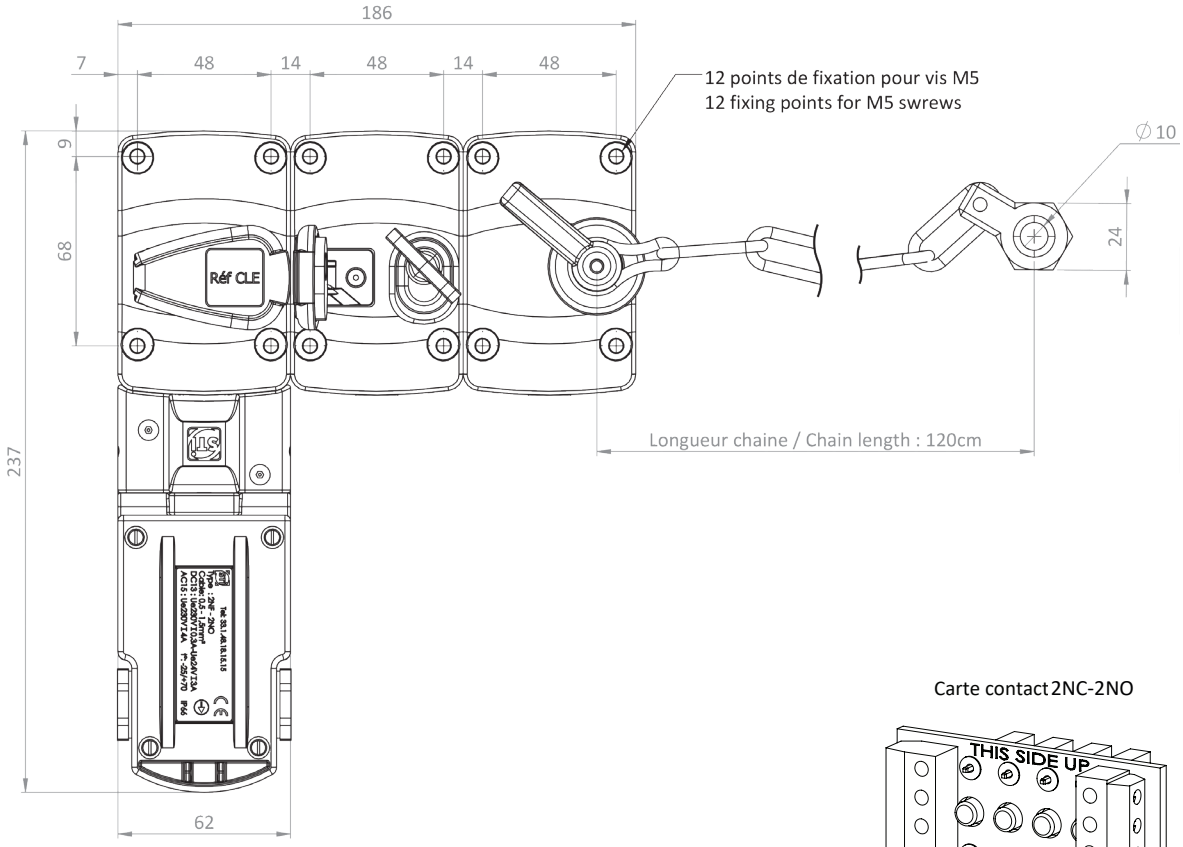
DRAWING

Dimensions: in mm

Note: For a safe mounting, use rivets or self-tapping screws.

MS access lock with two switches key entries (in front position)





Carte contact 2NC-2NO

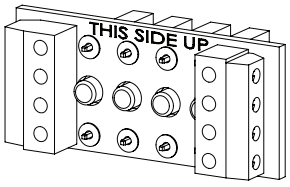
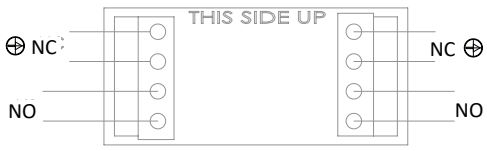


Schéma de câblage / Wiring Diagram



*bornier à vis section max 1,5mm²

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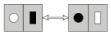
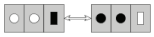
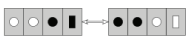
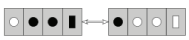
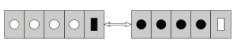
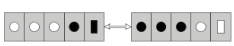
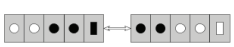
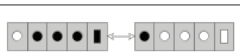
ORDER INFORMATION

	MS	N° of entries	0	Latch	Function	Switch	Position	Order no
Reference	MS							
Example	MS	4	0	L85	AK	BS	2	0

1	N° of entries	From 2 to 5 entries (including 1 latch entry)
2	Latch	L85 = Standard latch 85mm C20 = Chain latch 20cm C60 = Chain latch 60cm LTS = Standard T-latch LTC = Lockout T-latch (for exchange function) LSP = Special latch (see Order no) CSP = Key catch with special chain (see Order no)
3	Function	The function determines the key position (in or out). See FUNCTION table
4	Switch	NS = No Switch BS = Back Switch FS = Front Switch
5	Position	From 1 to 5 which shows the contact position on the device starting from the right 
6	Order no	For specific applications. This number is assigned by STI for an adapted product

N° of entries	Function	Principle
2	BT	
3	BV	
3	BW	
4	BY	
4	BZ	
4	CA	
5	CC	
5	CD	
5	CE	
5	CF	

Legend	○	free key
	●	trapped key
	▮	trapped latch
	▯	free latch

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ACCESSORIES

- Latch support kit (ref. 201561)

CONTACTS

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