MS - Boltlock

Part of the Sentric Group

The MS bolt lock is a mechanical lock with a trapped key, suitable for electrical locking (disconnecting switch, circuit breaker, etc.). This model of MS allows the rotation of the power switch gyratory or the movement of the shaft of a disconnector lever to be controlled.

The lock is manufactured from aluminium bronze, making it ideal for use in harsh or corrosive environments and heavy duty use.

The MS bolt lock is typically used in the chemical, pharmaceutical, mining, steel, metallurgy, railway and power generation industries.

Trapped Key Interlocks | INDUSTRY | ENERGY | RAILWAY

USAGE

The MS bolt lock is used to lock the power circuit in the open position.

The MS bolt lock cannot be used as an access lock as key release is possible when the door is open.

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 0,78 kg (for 1 key 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 5 key entries
- Switch 2NC-2NO (standard)
- Adjustable bolt position
- Threaded bolt

APPLICATION

The system includes a MS bolt lock on the machine's power switching device and a MS access lock for entering the hazardous area. Under normal machine operation (motor powered), the power key A is trapped in the MS and the access doors to the hazardous area are closed and locked.

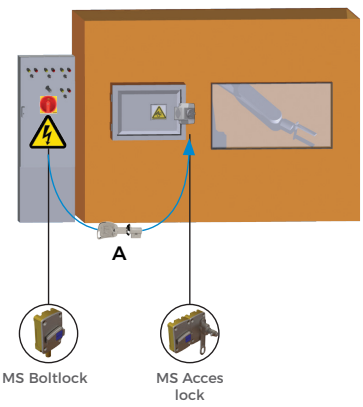
To access the hazardous area:

1. The operator cuts the machine's power allowing the release of the isolation key A.

2. The isolation key A is then trapped in the access lock MS 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.

4. To put the machine back into service, the operator follows the same steps in reverse order.



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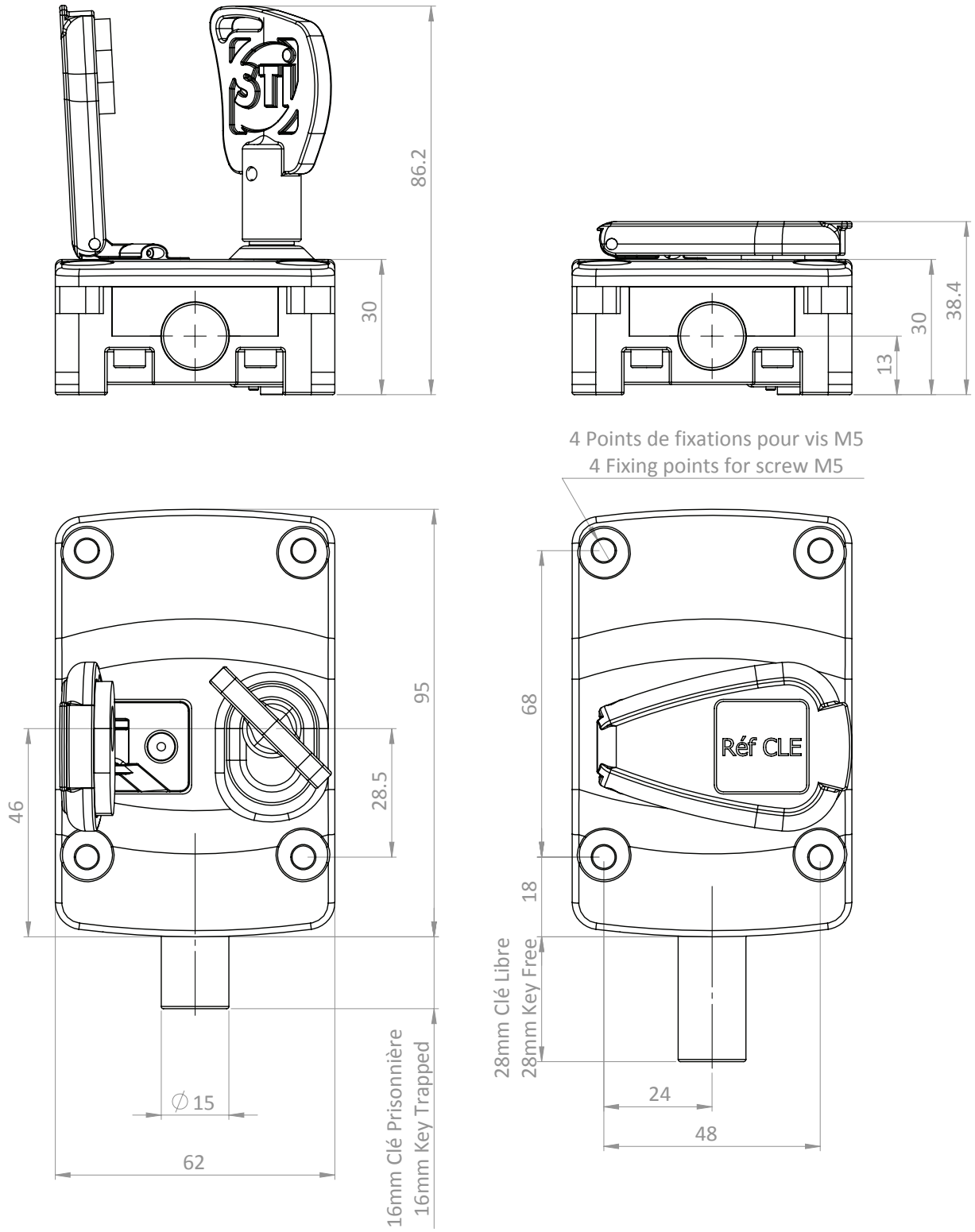
DRAWING

Dimensions: in mm

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

MS with bolt (diameter 15) with one key entry



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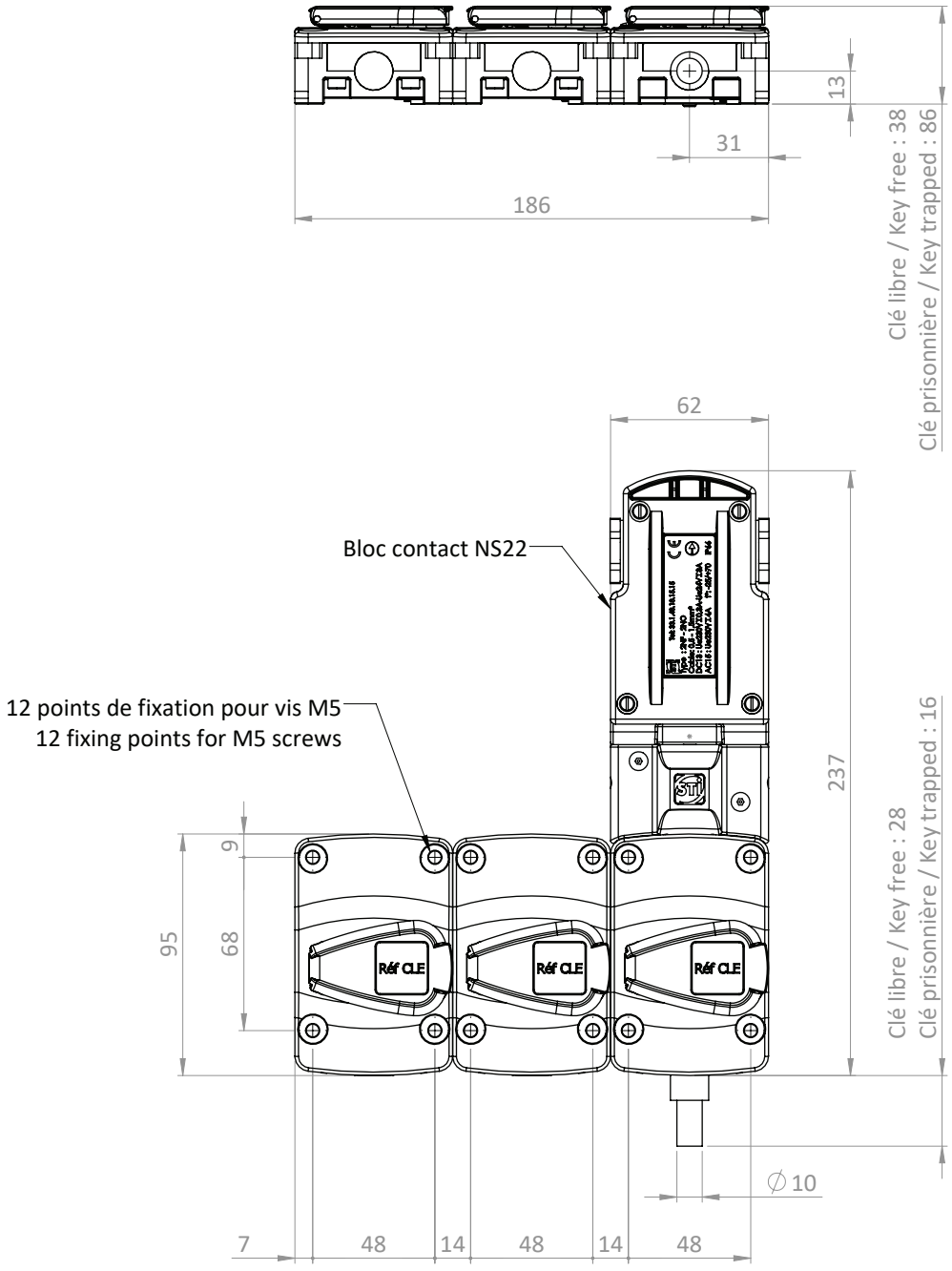
DRAWING

Dimensions: in mm

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

MS with bolt (diameter 10) with 3 switches key entries (in back position)



Carte contact 2NC-2NO

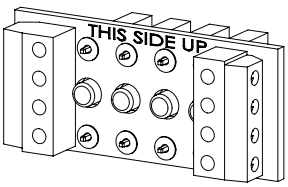
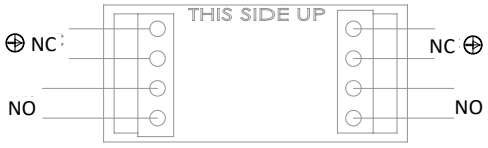


Schéma de câblage / Wiring Diagram



*screw terminal max section 1,5mm²

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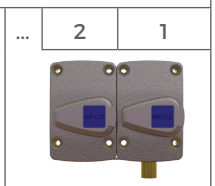
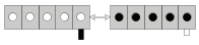
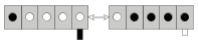
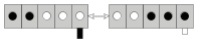
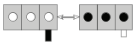
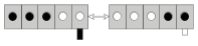
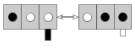
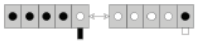
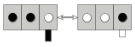
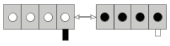
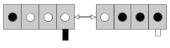
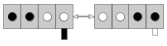
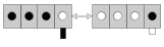
ORDER INFORMATION

	MS	N° of entries	N° of bolts	Diameter	Function	Switch	Position	Order no
Reference	MS							
Example	MS	2	1	P15	AC	NS	0	000

1	N° of entries	From 1 to 5 entries
2	N° of bolts	From 1 to the number of entries
3	Diameter	P15 = Bolt diameter Ø15 P10 = Bolt diameter Ø10 P08 = Bolt diameter Ø08
4	Function	The function determines the key position (in or out). See FUNCTION table
5	Switch	NS = No Switch BS = Back Switch FS = Front Switch
6	Position	From 1 to 5 which shows the contact position on the device starting from the right
7	Order no	For specific applications. This number is assigned by STI for an adapted product



N° of entries	Function	Principle	N° of entries	Function	Principle
1	AA		5	AO	
2	AB		5	AP	
2	AC		5	AQ	
3	AD		5	AR	
3	AE		5	AS	
3	AG				
4	AJ				
4	AK				
4	AL				
4	AM				

Legend	○	free key
	●	trapped key
	▮	bolt out
	▯	bolt in

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ACCESSORIES

- None

CONTACTS

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