

NX - Boltlock



Part of the
Sentric Group



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

The NX bolt lock is made of stainless steel, which makes it ideal for use in outdoor and corrosive environments or heavy industry.



Trapped Key
Interlocks



INDUSTRY



ENERGY



RAILWAY

USAGE

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

 The NX 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.

TECHNICAL DATA

Weight	Starting at 0,43 kg (for 1 key entry)
Material	- 304 stainless steel - Flip cap gasket: Cellular Silicon - Marking plate: Aluminium - Riveted plate (Brass rivets) or glued (Acrylic - Loctite AA330)
Product finishing	- Passivated stainless steel - Cover: Red polyester paint (RAL 3000)
Temperature rating	-35°C / +120°C for both lock & switch
Salt spray tolerance	240h
Watertightness	IP4X-lock IP66-switch
IK rating	IK08 lock IK08 switch
Vibrations	0.7mm @10-55HZ 1 oct/min in 3 axes
Retentive strength	250N-key 600N-bolt
Lifespan	1000000 cycles
B10d	200000 cycles
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 keys entries
- Switch 2NC-1NO (standard) - switches status when the key is trapped
- Without flip cap
- Not painted
- Lock with padlock guard: (lockout by padlock, if several technicians are involved)

APPLICATION

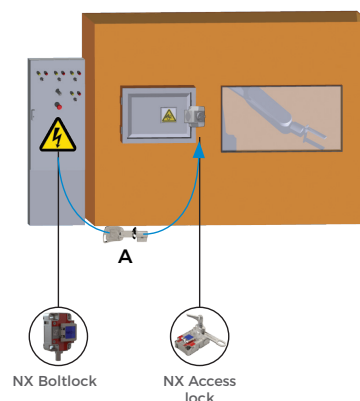
The system includes a NX bolt lock on the machine's power switching device and a NX access lock for entering the hazardous area. Under normal machine operation (motor powered), the power key A is trapped in the NX and the access doors to the hazardous area are closed and locked.

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 NX 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.

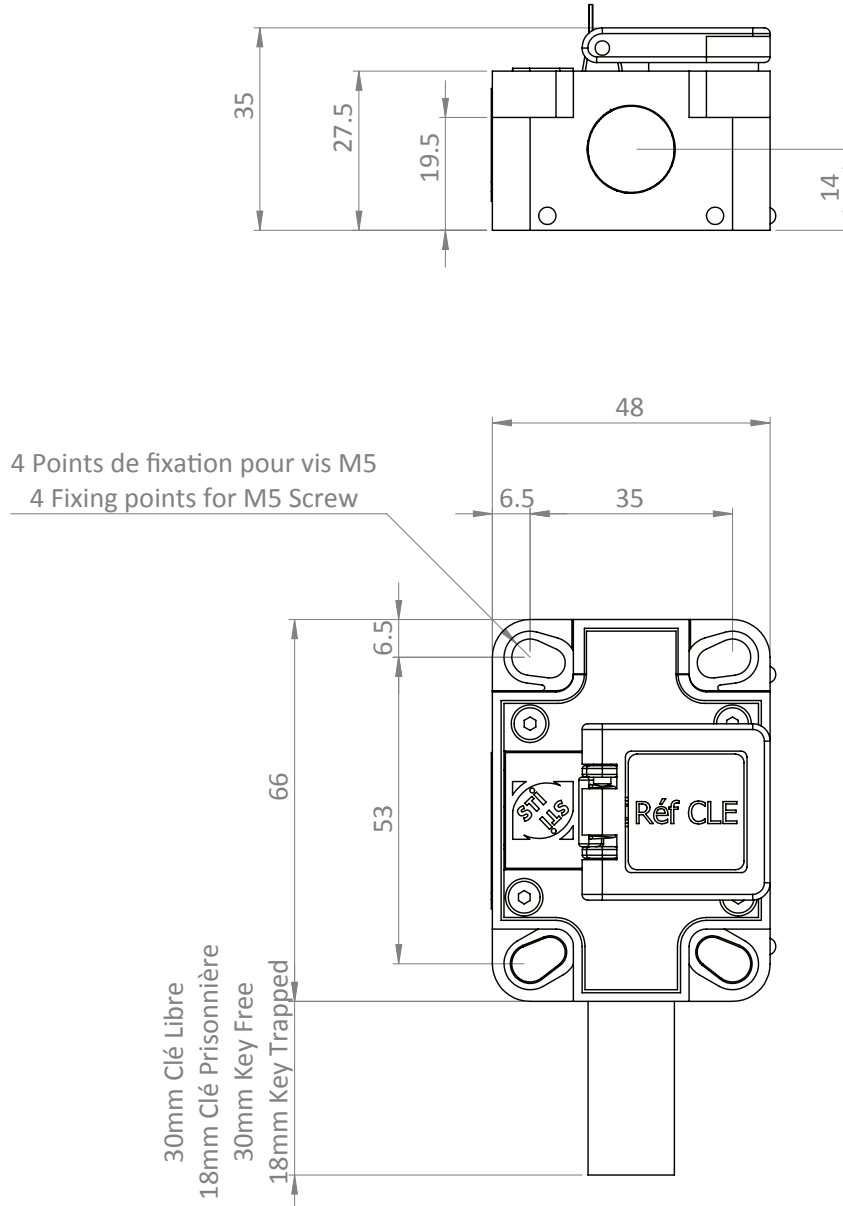


DRAWING

Dimensions: in mm

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

NX with bolt (diameter 15) with one key entry

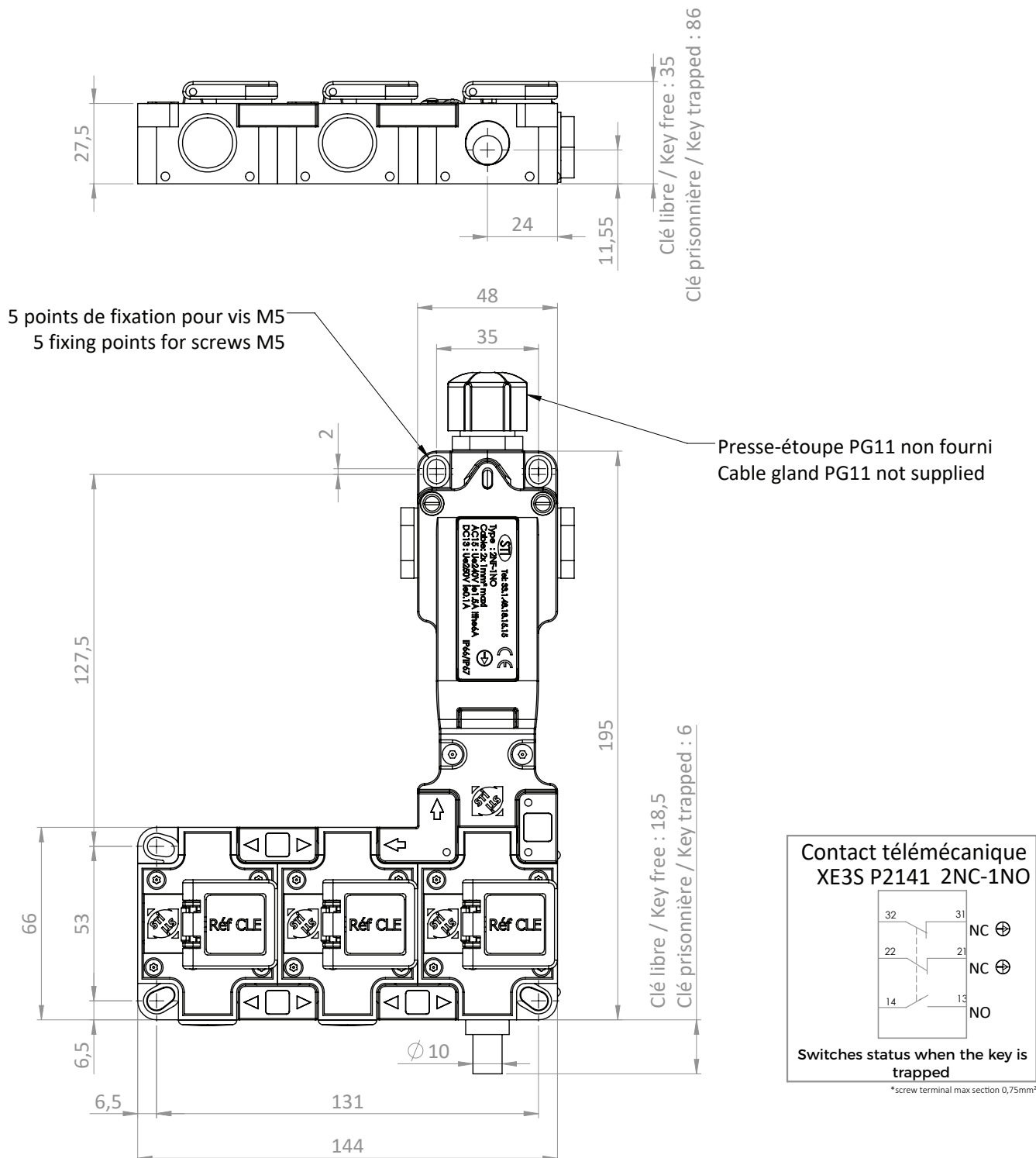


DRAWING

Dimensions: in mm

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

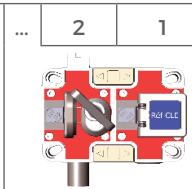
NX with bolt (diameter 10) with 3 switches key entries (in back position)


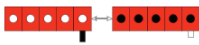

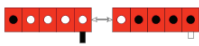

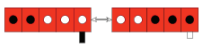
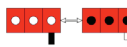
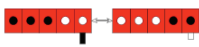
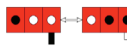
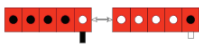
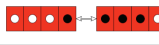
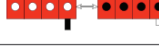
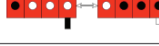
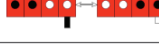





ORDER INFORMATION

	NX	N° of entries	N° of bolts	Diameter	Function	Switch	Position	Order no
Reference	NX							
Example	NX	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



ACCESSORIES

- None

CONTACTS

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