

TMEC - Key Exchange Box



Part of the
Sentric Group



The TMEC key exchange box is designed to allow the release of secondary keys by trapping one or more primary keys.

The need for this type of product usually arises where there is multiple access to a hazardous area. It is available with 4 or more secondary keys.

The key exchange box will be the link between the isolation locks and the access locks to the hazardous area.



Trapped Key Interlocks



INDUSTRY



ENERGY



RAILWAY

USAGE

The TMEC key exchange box should be used to provide safe access to potentially hazardous areas where there are two or more access points to that area.



The TMEC key exchange box 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.

TECHNICAL DATA

Weight	Starting at 5,2 kg for TMEC 1/5
Material	- 304 stainless steel - Flip cap gasket: Silicium cellulaire - Marking plate: Aluminium - Riveted plate (Brass rivets) or glued (Acrylic - Loctite AA330)
Product finishing	Cover plate : Red polyester paint (RAL 3000)
Temperature rating	-35°C / +120°C
Salt spray tolerance	240h
Watertightness	IP4X
IK rating	IK08
Vibrations	0.7mm @10-55HZ 1 oct/min in 3 axes
Retentive strength	250N-key
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) - EMC Directive 2014/30/EU
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

- 5 to 40 key entries
- Type S: linear key release. Trapping the primary key allows the secondary keys to be released line by line (vertically).
- Type L: random key release. Trapping the primary key allows any secondary key to be released.

APPLICATION

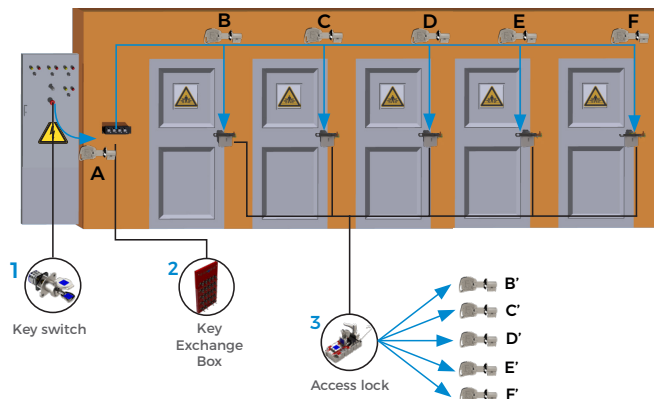
The system includes an RTK key switch to control the machine's power supply, a TMEC, and at least 5 NX access locks for entering the hazardous area. Under normal machine operation (motor powered), the power key A is trapped in the RTK and the access doors to the hazardous area are closed and locked.

To access the hazardous area:

1. The operator releases the RTK's power key A, thus cutting off the machine's power.
2. The power key A is then trapped in TMEC the key exchange box, releasing the access keys B, C, D, E and F.
3. Access keys B, C, D, E and F can then be trapped in the NX access locks, each releasing a lockout key and a latch allowing access to the area.

Lockout keys B', C', D', E' and F' are kept by the operator during operation to protect against accidental locking and switching on.

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



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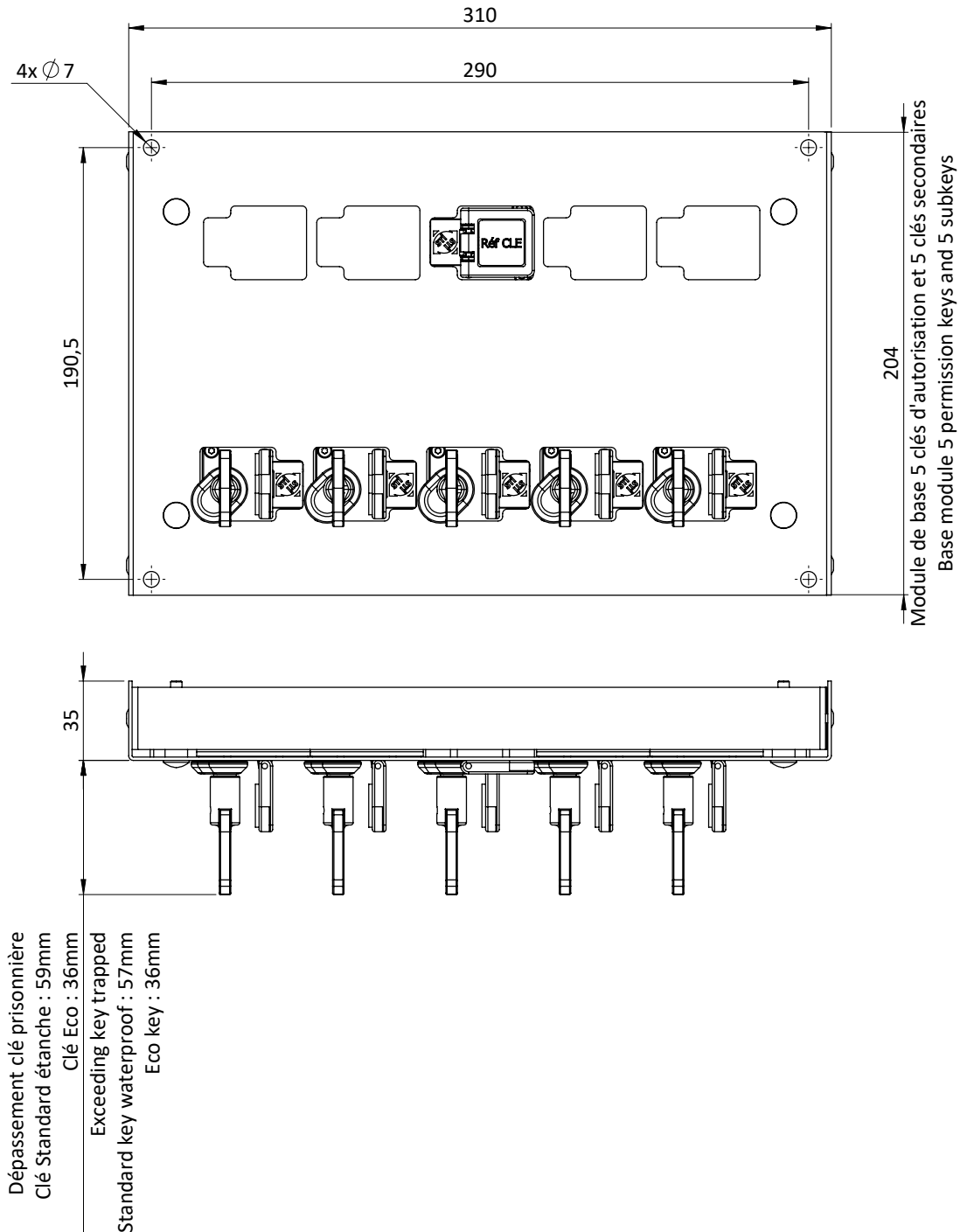
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DRAWING

Dimensions: in mm

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

TMEC Key Exchange Box 1/5



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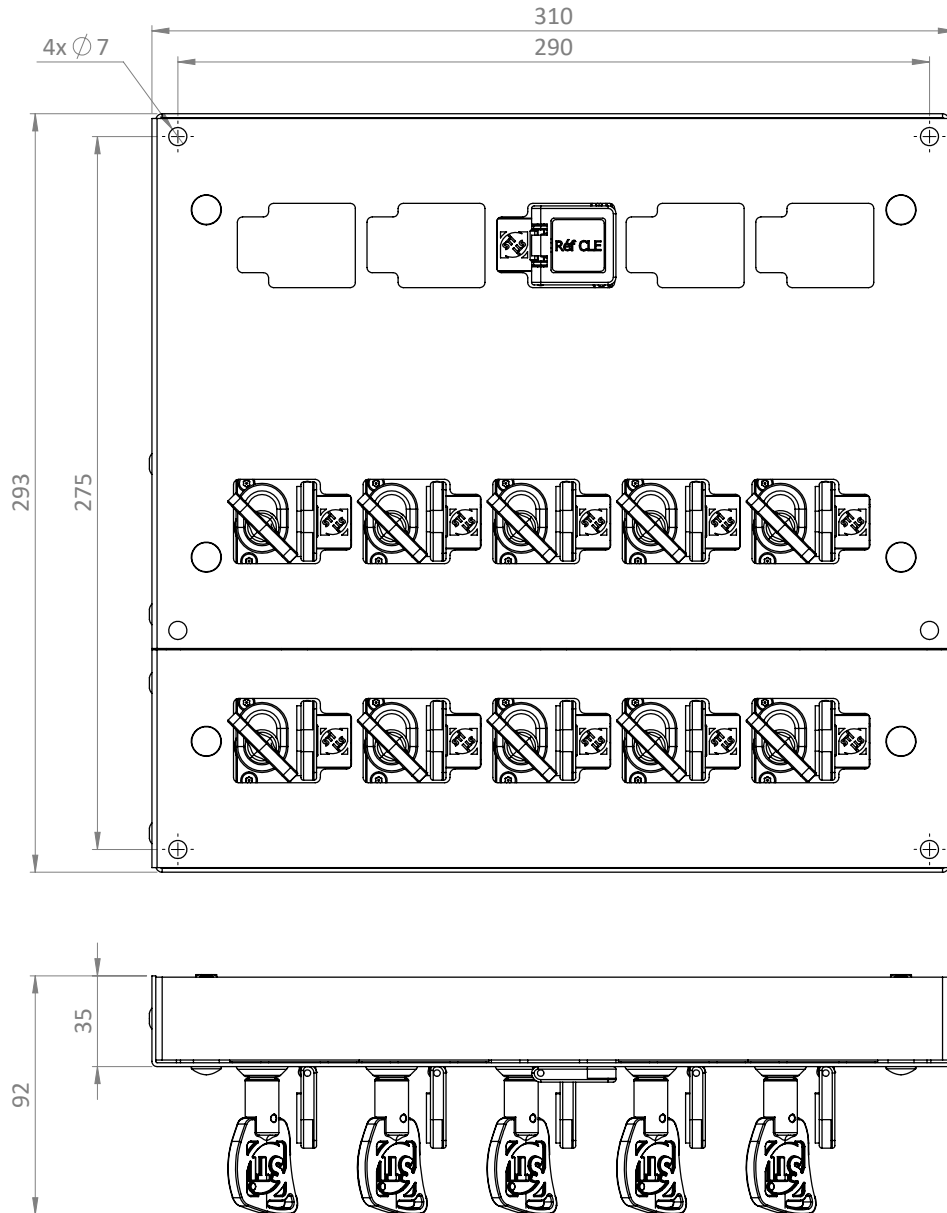
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DRAWING

Dimensions: in mm

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

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ORDER INFORMATION

	TMEC	Type	N° of primary keys	N° of secondary keys	Order no.
Reference	TMEC				
Example	TMEC	S	1E	10S	000

1	Type	S = Standard (linear release of secondary keys) L = LCSS (random release of secondary keys)
2	Primary keys	Minimum 1 and up to 35 incoming keys*. 'E' stands for incoming
3	Secondary keys	Minimum 4 and up to 39 outgoing keys*. 'S' stands for outgoing
4	Order no.	For specific applications. This number is assigned by STI for an appropriate product

*The total number of keys (in and out) combined must not exceed 40 keys

ACCESSORIES

• None

CONTACTS

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