



Interlocking system for access and energy.

The solution developed by STI, 80 years ago, serves to secure dangerous zone and to control access into the zone. The principle is simple, it's a system ensuring employees that they would not take any risk when they will enter inside a zone. The fundament of this principle is fully mechanical, it is named "Key Transfer system".

An employee switch off the electrical power of the zone that would, at the same time, stop all or part of the electrical installations or machinery of the zone, and free a key. This key was trapped into the lock before employee switched off the light, by the way the bolt of the lock gets out and secures the electrical switch on "off position" until people reinsert the key.

Then the key would allow the employee to access into the zone in unlocking the access lock, because the code of both (bolt & access) locks are the same, and are a unique one. In opening the door, the employee will free another key and go inside the zone with this second key. This key is a consignment key, in order to be sure that nobody could close the door & switch on the energy during employees are working inside the zone.

After having done it work, the employee would have to lock the "second" key, so that he might both close the access and free the first key. The first key will allow him to switch on the electrical system, and the first key would be again trapped on the lock.

Thus the mechanical interlocking system developed by STI offer the possibility to define safety process access that cannot be faked by anybody thanks to "Key Transfer technology".

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