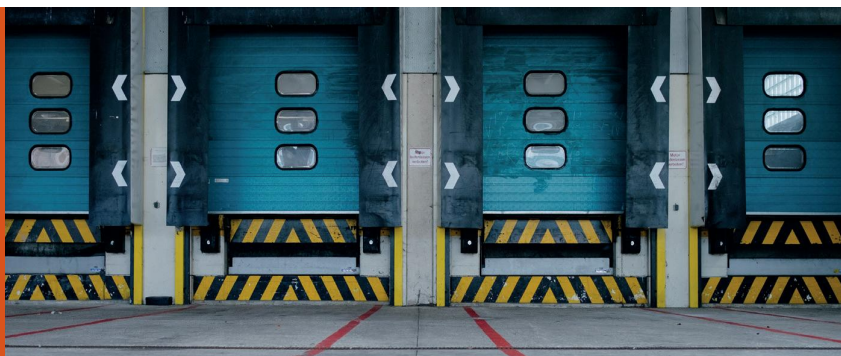


Application Case Study

Customer: Leading Consumer Goods Company
Location: West Thurrock, UK
Application: Loading Bay



Overview

The particular leading consumer goods company was one of Castell's first Salvo customers using a special version of our 'through the wall' key transfer system for manual doors. The KSUPS units used were modified to complement the company's Lockout/Tagout (LOTO) requirements as operated at 240vac. This included padlock control for the storage and Salvo Control Panel (SCP) enclosure.



After 10 years, the company is undergoing a refurbishment process which includes upgrading the loading bay doors from manual to electric operation. This gave Castell the opportunity to design a bespoke SCP to meet the company's requirements.



The New Process

- Loading bay is in the closed position, external traffic light is green, internal is red.
- Driver or shunter reverses the trailer onto the correct loading bay.
- The company operator then inserts and turns their FK4 key into the SCP unit, which traps the key and opens the panel door (all tug drivers have an FK4 key, only 1 per driver). This replaces the current padlock system.
- The company operator then collects from the box either the Salvo Susie or SGL lock and install it to the emergency airline of the trailer. This releases the trapped key of the Susie/SGL key on the airline. The Susie/SGL key and the vehicle keys are then taken to the SCP unit.
- The Susie/SGL key is inserted and turned into the lock inside the box. The vehicle key is placed inside and the door is closed. This enables the FK4 key to be turned and removed locking the box (preventing unauthorised access to the SCP and vehicle keys).
- The internal traffic light turns from red to green to indicate that the bay is safe and ready to use.
- The loading bay door is opened from the inside by depressing the open button. Once the door is open, the external traffic light changes from green to red to signal loading in progress.
- Loading and unloading commences.
- When finished, the loading bay door is closed.
- The external traffic light changes from red to green.
- The company operator returns to the SCP unit, and again uses their FK4 key to open the door. When the door is opened, the key is trapped.
- The key release button is pressed and held which enables the Susie/SGL key to be turned and released from the lock. The internal traffic light changes from green to red.



- The key is taken to the Susie or SGL and is inserted and turned. The Susie/ SGL is then removed and the airline is fitted.
- The Susie/SGL is taken back to the SCP, and the vehicle keys are removed.
- The door is closed and the FK4 key is removed locking the door.
- The vehicle keys are handed to the driver so that they can leave the site.

Benefits of the New Design

- Fully Stainless Steel design
- Single Castell Key to open all enclosures
- SCP and Storage in single unit
- 24vdc low voltage
- No key transfer from outside to inside - the door can be opened when the Susie or SGL key is inserted into the SCP
- Lower replacement costs if damaged
- Easier to use in line with the company's requirements - so it saves time