

## **Operating instructions MSS-T**

The **MULTI KEY SAFE** with button (MSS-T) serves storage of the main keys and their monitoring. It is not only to be used by the fire department, but may also be used by the operator for handing out keys.

### **The key depot**

The key depot represents the biggest part of the installation and can contain up to 120 key assemblies. Each of the key assemblies has a LED button, which is activated by a fire alarm as well as via an authorized smartcard. By pressing the LED button and keeping it pressed, the key or keys, respectively, can be removed. Furthermore, a micro-switch is installed in each key assembly, which registers the removal and return of the key and indicates this to the electronic system. The area of the key assemblies is provided with a door, which is locked with the operator lock. In the upper door, the card-reader for the smartcard, an operator keypad, an illuminated two-line display, the actuation lock „FIRE DEPARTMENT“ (FEUERWEHR) as well as four light-emitting diodes for status display are mounted. The green light-emitting diode indicates the operating status; the first yellow one signals a malfunction, e.g. a network failure. The second yellow light-emitting diode signals a break-in, whereupon an acoustic signal can also be heard via the buzzer. The acoustic warning of the buzzer also can be heard, when after a fire department operation has taken place, not all keys were properly returned. The third yellow light-emitting diode signals one or several removed keys. The red light-emitting diode signals an unlocked door with activation of one or several key assemblies.

### **The printer**

The printer is located behind the key depot door, likewise the associated printer lock (top left) for triggering the printer. Only the operator or a person authorized by him/her has this key.

## **Functional description in case of a fire department operation**

In case of a fire alarm, the allocated key assembly is activated by a potential-free contact, which is indicated by the associated LED button at the key assembly flashing. The key position number and the time of the alarm occurring are recorded by the second. Upon arrival of the fire department at the MSS-T, they insert the FD key into the marked FD lock and turn it to the right up to the stop.

Therewith, the lower large door is released. Following opening of the door, the LED button at the activated key assembly is flashing. At the non-activated key assemblies they are permanently illuminated. The key can be

removed by pressing and holding the LED button pressed and simultaneously turning the key to the left. The time of key removal is recorded by the second; simultaneously the yellow light-emitting diode „Key removed“ (Schlüssel entnommen) comes on. Once all activated keys were removed, „all activated keys removed“ (alle angesteuerten Schlüssel entnommen) appears on the display. For the return of the keys, too, the fire department key is required, when the key depot door was closed and thus locked following removal. Each occurrence and elimination of alarms as well as each key removal and return are recorded by the second by the electronic system. A voltage failure is likewise stored with the exact time.

## **Functional description upon operator usage**

The key removal of one or several keys, respectively, is undertaken with an authorized smartcard. For that, the smartcard is inserted into the card slot, and the four-digit code allocated to the card must be entered. Thereafter, the door is opened, and pressing and keeping the flashing LED button pressed, simultaneously turning the key to the left, the key can be removed.

Returning the key(s) likewise takes place using the smartcard. For that, the smartcard is inserted into the card slot and the four-digit code is entered. Following opening the door, keys can be reinserted in their position.

In the record storage of the electronic system, the respectively last 500 alarms are stored. These can only be read out by the service technician. With the authorization card it is possible to read out the events since the last printout (see description „User card“). Thus, it is prevented that alarms can be ignored or deleted.

## **Connecting lines between central fire alarm system and multi key safe**

**Line for sum alarm** Type BMLF-YAY 2 x 2 x 0,8

**Line for operation-specific activation** For each key assembly, at least 2 cores of a multi-conductor cable (e.g. BMLF-YAY... x 2 x 0.8) are required.

Both cables must be laid separate from one another, if possible, at least in their own sleeve tubes or in a low-current cable tray separated by a metal web.

For each key assembly, a control group (output) must be provided by the activated central fire alarm system. Monitored control groups must be used. A possible malfunction of the connecting line(s) must be indicated at the central fire alarm system as a malfunction (sum malfunction indication and individual indication).

The operator must provide 1 built-in single-profile cylinder (HZ 32) for each key assembly and main key! These manufacturer instructions must be complied with in any case, otherwise the function is not guaranteed.