Overview

With the SHGV-system, the trapped key determines whether the guard door can be opened or not. In the initial state, the trapped key is in a key-selector-switch which is usually located in a central control console where the stop function of the machine is. The key can only be removed from there when the machine is in the safe operating mode. The operator can then take the key from the console selector switch and insert it into the lock barrel of the guard door to open it. The key can only be removed from this lock barrel once safety door is closed and locked again. The machine or the hazardous movement can be restarted once the key is back in the selector-switch at the central console.

If the transfer time between making a selection with the key-selector-switch (removal of the key) and the unlocking of the protection equipment is insufficient, then a solenoid locking key-selector switch unit (SVE) may be required. The SVE Interlock holds keys until a hazardous machine motion has come to a stop.

Multiple guard doors can be controlled with a SVE key distribution station. The control key remains trapped as long as any secondary keys are removed / guard door are open.

The SHGV series also has a version with a second lock barrel which blocks the actuation of the first lock barrel, if an operator needs to enter a space that needs protection against the machine being started unintentionally by third parties.

Typical System Configurations

Hazardous run-on time < Time for the key transfer

One key selector switch
SHGV/ESS unlocks one guard (SHGV)

Hazardous run-on time > Time for the key transfer

One primary key selector switch
SHGV/ESS, unlocks multiple secondary keys in the SVM, to unlock several guards (SHGV)

Applications

- Food processing machinery
- Pharmaceutical machinery
- Medical applications
- Outdoor equipment
- Chemical processing equipment
- Painting systems
- Semiconductor manufacturing

Available Literature

- Trapped Key Transfer System brochure (PDF only)

Ordering Details

Keyed selector switch
SHGV/ESS21S2/Ø/103

Guard locking device
SHGV/Ø/Ø/Ø/Ø+Ø

Guard locking device direction
- B Back side
- L Left side
- R Right side

Additional locking cylinder
- blank Without
- D from front

Number of actuating heads
- 01 1 actuator head
- 1.1 2 actuator heads

Designate key code, main cylinder

Designate key code, front cylinder (D)

Actuator type
- BO Straight actuator
- BOW Angled mounting
- BOR Curved actuator
- BOWR Curved, angled

Booting
- BOF/HIS.1 Flexible, end mounting
- BOF/HIS.2 Flexible, side mounting

Solenoid locking key-selector unit

SVE/Ø/Ø/Ø/Ø

Key distribution station
SVM1/Ø/Ø/Ø/Ø

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