

SERIES SHGV

Cable-less Keyed Mechanical Safety Guard Interlock with Key Transfer System

New!



Description

The SHGV Series consist of a guard-mounted mechanical locking device and a 2-position key operated selector switch for control panel mounting. This unique key transfer system assures the removal of power before allowing the access control guard to be open ... without the need for electrical wiring at the interlocked machine guard location.

Operation

When the machine guard is open the transfer key (for operating the 2-position selector switch) cannot be withdrawn from the guard locking mechanism.

Upon closing of the guard, the mechanical actuator key permits the transfer-key to be turned (locking the guard) and withdrawn. The transfer-key can now be removed and inserted into the 2-position selector switch, allowing it to be operated (e.g. power to be turned on) ... trapping the transfer key in the "on" position.

To unlock (open) the guard, the selector switch must be turned to the off position. The transfer-key can now be withdrawn and inserted into the guard-locking mechanism for release of the mechanical actuator key and opening of the guard.

The two lock barrel version allows the removal of a second transfer key when the mechanical actuator key has been released. This second transfer key prevents the removal of the "power control" transfer key from the keyed interlock. Thus it can be removed from the interlock by the operator to protect against the inadvertent start-up of the equipment.

Typical Applications

Recommended for use where wiring directly to the movable guard is cost prohibitive or subject to damage due corrosive chemicals or other harsh environmental conditions.

Features & Benefits

- **Highly tamper resistant** ... difficult to defeat with simple tools, thereby reducing liability exposure.
- **Four optional key entry positions** ... provides installation versatility.
- **Three optional locking cylinder locations** ... provides installation versatility.
- **Corrosion resistant** ... tolerates hostile environments.
- **Funnel shaped entry** ... forgiving of mechanical actuator key misalignment
- **Low cost guard locking** ... eliminates wiring at the guard.
- **Meets rigid safety agency standards** ...

Selector switch: UL, CSA, IEC, BG, VDE

Mechanical key locking device: IEC, BG, VDE

AVAILABLE MODELS

| Part Number | Description |
|--------------------------------|--|
| SHGV/L1 (*) ESS21S2/103 | Lock Barrel Left |
| SHGV/R1 (*) ESS21S2/103 | Lock Barrel Right |
| SHGV/B1 (*) ESS21S2/103 | Lock Barrel Rear |
| SHGV/LD1 (*) / (*) ESS21S2/103 | Lock Barrel Left & Lock Barrel in Front Cover |
| SHGV/RD1 (*) / (*) ESS21S2/103 | Lock Barrel Right & Lock Barrel in Front Cover |

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Includes guard device SHGV with standard BO actuator element, keyed selector switch ESS21S2, and contact block EF103 (1NO/1NC)

(*) Individual key identification code stamped on selector switch cylinder.

Note:

This system is recommended for applications in which there is no residual motion or hazard after the removal of power. For applications in which there is residual motion or the presence of a hazard immediately following the removal of power, a solenoid-locking console (Model SVE) is recommended. Please consult factory.

SERIES SHGV TECHNICAL DATA

MECHANICAL SPECIFICATIONS

| | |
|-----------------------------|--|
| Protection Class | IP 65 (Housing) IEC/EN 60529 IP 00 (Control Head) IEC/EN 60529 |
| Actuating Forces | Insertion of actuating element - 15 N Withdrawal of actuating element - 5 N |
| Ambient temperature | - 25 °C to + 70 °C |
| Storage temperature | - 40 °C to + 80 °C |
| Material | ALsi 12 painted signal red (RAL 3000) |
| Housing | Steel passivated with |
| SHG Cover | Perbunan seals(oil and gasoline resistant) |
| Mechanical life | 2 x 10 ⁶ operating cycles |
| Shock resistance | > 30 x g / 18ms |
| Vibration resistance | > 15 x g/10 ... 200 Hz |
| Climatic resistance | 40/91 to DIN 50015 FW 24 to DIN 50016 |

ELECTRICAL SPECIFICATIONS

| | |
|---------------------------------|-----------------------|
| Conformity to Standard | IEC/EN 60947-5-1 |
| Protection Class | IP 65 to IEC/EN 60529 |
| Contacts | Fine silver |
| Rated breaking capacity | 230Vac/6A - 400VAC/4A |
| Rated operating current | 230Vac/6A - 400VAC/4A |
| Rated insulation voltage | 400VAC / 450VDC |
| Thermal test current | 10 A |
| Utilization Category | AC-15; DC-13 |
| Max. fuse rating | 10 A (slow blow) |
| Ambient temperature | - 25 °C to + 80 °C |
| Switching frequency | 6000 s/h |

DIMENSIONAL DRAWING FOR SHGV GUARD LOCKING DEVICE

